Indico Documentation

Release 3.0.2

Indico Team

Contents

1	Installation 1.1 Installation guides	3 3
2	Configuration 2.1 Configuration	47 47
3	Building 3.1 Building	65
4	Search 4.1 Search	67 67
5	Plugins 5.1 Extending Indico with plugins	75 75
6	HTTP API 6.1 Indico - HTTP API	93 93
7	API reference 7.1 API reference	121 121
8	What's New 8.1 Changelog	349 349
9	Indices and tables	377
10	Contact 10.1 Contact	379 379
Py	thon Module Index	381
Inc	dex	385



The effortless open source tool for event organization, archival and collaboration.



Welcome to Indico's documentation. This documentation is split into several parts, from installing Indico to developing Indico plugins. To dive into the internals of Indico, check out the API documentation. Read more about Indico in our official website.

Contents 1

2 Contents

CHAPTER 1

Installation

To simply install and use Indico, follow the *production installation instructions*. For those who are interested in developing new features and plugins for Indico, check out the *development installation instructions*.

1.1 Installation guides

To simply install and use Indico, follow the *production installation instructions*. For those who are interested in developing new features and plugins for Indico, check out the *development installation instructions*.

1.1.1 Production

We provide guides to install Indico on CentOS and Debian systems. While other distributions are not officially supported, they should work fine, but the installation steps (especially package names) may need some slight adjustments.

Our guides cover a single-machine installation where Indico, Celery, Redis and PostgreSQL run on the same machine. This should be fine for almost all Indico instances, but adapting the steps to multiple machines is not particularly hard either.

CentOS / CC7

Except for minor differences, these guides apply to vanilla CentOS 7/8 and also the CERN flavor of CentOS 7, CC7 (CentOS CERN 7).

We have **not** tested the installation guides with CentOS Stream 8, as there are no up to date official Postgres packages available yet.

Warning: CentOS 8 is **only** supported with nginx, as some important packages (mod_xsendfile and mod_proxy_uwsgi) are not (yet?) available for CentOS 8 in first-party repos. Once they are in EPEL, there is a good chance the guide will work as expected.

nginx

Note: Please note that you **must** use Apache if you intend to use SSO using Shibboleth. If that's not the case because you do not use SSO at all or use e.g. OAuth, OIDC or SAML without Shibboleth, we recommend using nginx.

1. Enable EPEL

```
yum install -y epel-release
```

Note: If you use CC7, EPEL is already enabled and this step is not necessary

2. Install Packages

If you are on CentOS 7, edit /etc/yum.repos.d/CentOS-Base.repo and add exclude=postgresql* to the [base] and [updates] sections, as described in the PostgreSQL wiki and then run these commands:

```
yum install -y centos-release-scl
yum install -y https://download.postgresql.org/pub/repos/yum/reporpms/EL-7-x86_64/
→pgdg-redhat-repo-latest.noarch.rpm
```

If you are on CentOS 8, run this instead:

Now install all the required packages:

```
yum install -y postgresql13 postgresql13-server postgresql13-libs postgresql13-devel.

-postgresql13-contrib

yum install -y git gcc make redis nginx

yum install -y libjpeg-turbo-devel libxslt-devel libxml2-devel libffi-devel pcre-

-devel libyaml-devel zlib-devel bzip2 bzip2-devel readline-devel sqlite sqlite-devel.

-openssl-devel xz xz-devel libffi-devel findutils libuuid-devel

/usr/pgsql-13/bin/postgresql-13-setup initdb

systemctl start postgresql-13.service redis.service
```

3. Create a Database

4

We create a user and database for indico and enable the necessary Postgres extensions (which can only be done by the Postgres superuser)

Warning: Do not forget to setup a cronjob that creates regular database backups once you start using Indico in production!

4. Configure uWSGI & nginx

The default uWSGI and nginx configuration files should work fine in most cases.

```
cat > /etc/uwsgi-indico.ini <<'EOF'</pre>
[uwsgi]
uid = indico
gid = nginx
umask = 027
processes = 4
enable-threads = true
chmod-socket = 770
socket = /opt/indico/web/uwsgi.sock
stats = /opt/indico/web/uwsgi-stats.sock
protocol = uwsgi
master = true
auto-procname = true
procname-prefix-spaced = indico
disable-logging = true
single-interpreter = true
touch-reload = /opt/indico/web/indico.wsgi
wsgi-file = /opt/indico/web/indico.wsgi
virtualenv = /opt/indico/.venv
vacuum = true
buffer-size = 20480
memory-report = true
max-requests = 2500
harakiri = 900
harakiri-verbose = true
reload-on-rss = 2048
evil-reload-on-rss = 8192
```

We also need a systemd unit to start uWSGI.

```
cat > /etc/systemd/system/indico-uwsgi.service <<'EOF'
[Unit]
Description=Indico uWSGI
After=network.target

[Service]
ExecStart=/opt/indico/.venv/bin/uwsgi --ini /etc/uwsgi-indico.ini
ExecReload=/bin/kill -HUP $MAINPID
Restart=always
SyslogIdentifier=indico-uwsgi
User=indico
Group=nginx</pre>
```

```
UMask=0027
Type=notify
NotifyAccess=all
KillMode=mixed
KillSignal=SIGQUIT
TimeoutStopSec=300

[Install]
WantedBy=multi-user.target
EOF
```

Note: Replace YOURHOSTNAME in the next file with the hostname on which your Indico instance should be available, e.g. indico.yourdomain.com

```
cat > /etc/nginx/conf.d/indico.conf <<'EOF'</pre>
server {
 listen 80;
 listen [::]:80;
server_name YOURHOSTNAME;
 return 301 https://$server_name$request_uri;
server {
 listen
             *:443 ssl http2;
             [::]:443 ssl http2 default ipv6only=on;
 listen
 server_name YOURHOSTNAME;
 ssl_certificate
                         /etc/ssl/indico/indico.crt;
 ssl_certificate_key
                       /etc/ssl/indico/indico.key;
 ssl_dhparam
                         /etc/ssl/indico/ffdhe2048;
                        1d;
 ssl_session_timeout
 ssl_session_cache
                         shared:SSL:10m;
 ssl_session_tickets
                         off;
 ssl_protocols
                         TLSv1.2 TLSv1.3;
 ssl_ciphers
                         ECDHE-ECDSA-AES128-GCM-SHA256:ECDHE-RSA-AES128-GCM-
→SHA256:ECDHE-ECDSA-AES256-GCM-SHA384:ECDHE-RSA-AES256-GCM-SHA384:ECDHE-ECDSA-
→CHACHA20-POLY1305:ECDHE-RSA-CHACHA20-POLY1305:DHE-RSA-AES128-GCM-SHA256:DHE-RSA-
→AES256-GCM-SHA384;
 ssl_prefer_server_ciphers off;
                      /opt/indico/log/nginx/access.log combined;
 access_log
 error_log
                      /opt/indico/log/nginx/error.log;
 if ($host != $server_name) {
   rewrite ^/(.*) https://$server_name/$1 permanent;
 location /.xsf/indico/ {
   internal;
   alias /opt/indico/;
```

```
alias /opt/indico/web/static/$1$2/$3.$5;
   access_log off;
 location ~ ^/(css|dist|images|fonts)/(.*)$ {
   alias /opt/indico/web/static/$1/$2;
   access_log off;
 location /robots.txt {
   alias /opt/indico/web/static/robots.txt;
   access_log off;
 location / {
   root /var/empty/nginx;
   include /etc/nginx/uwsgi_params;
   uwsgi_pass unix:/opt/indico/web/uwsgi.sock;
   uwsgi_param UWSGI_SCHEME $scheme;
   uwsgi_read_timeout 15m;
   uwsqi_buffers 32 32k;
   uwsgi_busy_buffers_size 128k;
   uwsgi_hide_header X-Sendfile;
   client_max_body_size 1G;
EOF
```

5. Create a TLS Certificate

First, create the folders for the certificate/key and set restrictive permissions on them:

```
mkdir /etc/ssl/indico
chown root:root /etc/ssl/indico/
chmod 700 /etc/ssl/indico
```

We also use a strong set of pre-generated DH params (ffdhe2048 from RFC7919) as suggested in Mozilla's TLS config recommendations:

```
cat > /etc/ssl/indico/ffdhe2048 <<'EOF'
----BEGIN DH PARAMETERS-----
MIIBCAKCAQEA//////+t+FRYortKmq/cViAnPTzx2LnFg84tNpWp4TZBFGQz
+8yTnc4kmz75fS/jY2MMddj2gbICrsRhetPfHtXV/WVhJDP1H18GbtCFY2VVPe0a
87VXE15/V8k1mE8McODmi3fipona8+/och3xWKE2rec1MKzKT0g6eXq8CrGCsyT7
YdEIqUuyyOP7uWrat2DX9GgdT0Kj3jlN9K5W7edjcrsZCwenyO4KbXCeAvzhzffi
7MA0BM0oNC9hkXL+nOmFg/+OTxIy7vKBg8P+OxtMb61zO7X8vC7CIAXFjvGDfRaD
ssbzSibBsu/6iGtCOGEoXJf//////wIBAg==
----END DH PARAMETERS-----
EOF</pre>
```

If you are just trying out Indico you can simply use a self-signed certificate (your browser will show a warning which you will have to confirm when accessing your Indico instance for the first time).

Note: Do not forget to replace YOURHOSTNAME with the same value you used above

```
openssl req -x509 -nodes -newkey rsa:4096 -subj /CN=YOURHOSTNAME -keyout /etc/ssl/\rightarrowindico/indico.key -out /etc/ssl/indico/indico.crt
```

While a self-signed certificate works for testing, it is not suitable for a production system. You can either buy a certificate from any commercial certification authority or get a free one from Let's Encrypt.

Note: There's an optional step later in this guide to get a certificate from Let's Encrypt. We can't do it right now since the nginx config references a directory yet to be created, which prevents nginx from starting.

6. Configure SELinux

Indico works fine with SELinux enabled, but you need to load a custom SELinux module to tell SELinux about Indico's files and how they should be handled.

```
cat > /tmp/indico.cil <<'EOF'
; define custom type that logrotate can access
(type indico_log_t)
(typeattributeset file_type (indico_log_t))
(typeattributeset logfile (indico_log_t))
(roletype object_r indico_log_t)
; allow logrotate to reload systemd services
(allow logrotate_t init_t (service (start)))
(allow logrotate_t policykit_t (dbus (send_msg)))
(allow policykit_t logrotate_t (dbus (send_msg)))
; make sure the uwsgi socket is writable by the webserver
(typetransition unconfined service t usr t sock file "uwsgi.sock" httpd sys rw
(filecon "/opt/indico/web/uwsqi\.sock" socket (system_u object_r httpd_sys_rw_content_
→t ((s0)(s0))))
; set proper types for our log dirs
(filecon "/opt/indico/log(/.*)?" any (system_u object_r indico_log_t ((s0)(s0))))
(filecon "/opt/indico/log/nginx(/.*)?" any (system_u object_r httpd_log_t ((s0)(s0))))
semodule -i /tmp/indico.cil
```

7. Install Indico

Celery runs as a background daemon. Add a systemd unit file for it:

```
cat > /etc/systemd/system/indico-celery.service <<'EOF'
[Unit]
Description=Indico Celery
After=network.target

[Service]
ExecStart=/opt/indico/.venv/bin/indico celery worker -B
Restart=always
SyslogIdentifier=indico-celery
User=indico</pre>
```

```
Group=nginx
UMask=0027
Type=simple
KillMode=mixed
TimeoutStopSec=300

[Install]
WantedBy=multi-user.target
EOF

systemctl daemon-reload
```

Now create a user that will be used to run Indico and switch to it:

```
useradd -rm -g nginx -d /opt/indico -s /bin/bash indico
su - indico
```

The first thing to do is installing pyenv - we use it to install the latest Python version as not all Linux distributions include it and like this Indico can benefit from the latest Python features.

```
curl -L https://github.com/pyenv/pyenv-installer/raw/master/bin/pyenv-installer | bash
cat >> ~/.bashrc <<'EOF'
export PATH="/opt/indico/.pyenv/bin:$PATH"
eval "$(pyenv init --path)"
eval "$(pyenv init -)"
EOF</pre>
source ~/.bashrc
```

You are now ready to install Python 3.9:

Run pyenv install --list | egrep '^\s \times 3\.9\.' to check for the latest available version and then install it and set it as the active Python version (replace x in both lines).

```
pyenv install 3.9.x
pyenv global 3.9.x
```

This may take a while since pyenv needs to compile the specified Python version. Once done, you may want to use python -V to confirm that you are indeed using the version you just installed.

You are now ready to install Indico:

```
python -m venv --upgrade-deps --prompt indico ~/.venv
source ~/.venv/bin/activate
export PATH="$PATH:/usr/pgsql-13/bin"
echo 'source ~/.venv/bin/activate' >> ~/.bashrc
pip install wheel
pip install uwsgi
pip install indico
```

8. Configure Indico

Once Indico is installed, you can run the configuration wizard. You can keep the defaults for most options, but make sure to use https://YOURHOSTNAME when prompted for the Indico URL. Also specify valid email addresses when

asked and enter a valid SMTP server Indico can use to send emails. When asked for the default timezone make sure this is the main time zone used in your Indico instance.

```
indico setup wizard
```

Now finish setting up the directory structure and permissions:

9. Create database schema

Finally you can create the database schema and switch back to root:

```
indico db prepare exit
```

10. Launch Indico

You can now start Indico and set it up to start automatically when the server is rebooted:

```
systemctl restart nginx.service indico-celery.service indico-uwsgi.service systemctl enable nginx.service postgresql-13.service redis.service indico-celery.

service indico-uwsgi.service
```

11. Open the Firewall

```
firewall-cmd --permanent --add-port 443/tcp --add-port 80/tcp firewall-cmd --reload
```

Note: This is only needed if you use CC7 as CentOS 7/8 have no firewall enabled by default

12. Optional: Get a Certificate from Let's Encrypt

To avoid ugly TLS warnings in your browsers, the easiest option is to get a free certificate from Let's Encrypt. We also enable the cronjob to renew it automatically:

```
yum install -y python-certbot-nginx certbot --nginx --rsa-key-size 4096 --no-redirect --staple-ocsp -d YOURHOSTNAME rm -rf /etc/ssl/indico systemctl start certbot-renew.timer systemctl enable certbot-renew.timer
```

13. Create an Indico user

Access https://YOURHOSTNAME in your browser and follow the steps displayed there to create your initial user.

14. Install TeXLive

Follow the *LaTeX install guide* to install TeXLive so Indico can generate PDF files in various places.

Apache

Warning: CentOS 8 with Apache is **not supported**, as some important packages (mod_xsendfile and mod_proxy_uwsgi) are not (yet?) available for CentOS 8 in first-party repos. Once they are in EPEL, there is a good chance this guide will work as expected.

1. Enable EPEL

```
yum install -y epel-release
```

Note: If you use CC7, EPEL is already enabled and this step is not necessary

2. Install Packages

If you are on CentOS 7, edit /etc/yum.repos.d/CentOS-Base.repo and add exclude=postgresql* to the [base] and [updates] sections, as described in the PostgreSQL wiki and then run these commands:

```
yum install -y centos-release-scl
yum install -y https://download.postgresql.org/pub/repos/yum/reporpms/EL-7-x86_64/
-pgdg-redhat-repo-latest.noarch.rpm
```

If you are on CentOS 8, run this instead:

```
yum install -y postgresql13 postgresql13-server postgresql13-libs postgresql13-devel_
→postgresql13-contrib

yum install -y git gcc make redis httpd mod_proxy_uwsgi mod_ssl mod_xsendfile

yum install -y libjpeg-turbo-devel libxslt-devel libxml2-devel libffi-devel pcre-
→devel libyaml-devel zlib-devel bzip2 bzip2-devel readline-devel sqlite sqlite-devel_
→openssl-devel xz xz-devel libffi-devel findutils libuuid-devel

/usr/pgsql-13/bin/postgresql-13-setup initdb

systemctl start postgresql-13.service redis.service
```

3. Create a Database

We create a user and database for indico and enable the necessary Postgres extensions (which can only be done by the Postgres superuser)

```
su - postgres -c 'createuser indico'
su - postgres -c 'createdb -O indico indico'
su - postgres -c 'psql indico -c "CREATE EXTENSION unaccent; CREATE EXTENSION pg_trgm;
→"'
```

Warning: Do not forget to setup a cronjob that creates regular database backups once you start using Indico in production!

4. Configure uWSGI & Apache

The default uWSGI and Apache configuration files should work fine in most cases.

```
cat > /etc/uwsgi-indico.ini <<'EOF'</pre>
[uwsqi]
uid = indico
gid = apache
umask = 027
processes = 4
enable-threads = true
socket = 127.0.0.1:8008
stats = /opt/indico/web/uwsgi-stats.sock
protocol = uwsgi
master = true
auto-procname = true
procname-prefix-spaced = indico
disable-logging = true
single-interpreter = true
touch-reload = /opt/indico/web/indico.wsgi
wsgi-file = /opt/indico/web/indico.wsgi
virtualenv = /opt/indico/.venv
vacuum = true
buffer-size = 20480
memory-report = true
max-requests = 2500
harakiri = 900
harakiri-verbose = true
reload-on-rss = 2048
evil-reload-on-rss = 8192
EOF
```

We also need a systemd unit to start uWSGI.

```
cat > /etc/systemd/system/indico-uwsgi.service <<'EOF'
[Unit]</pre>
```

```
Description=Indico uWSGI
After=network.target
[Service]
ExecStart=/opt/indico/.venv/bin/uwsgi --ini /etc/uwsgi-indico.ini
ExecReload=/bin/kill -HUP $MAINPID
Restart=always
SyslogIdentifier=indico-uwsqi
User=indico
Group=apache
UMask=0027
Type=notify
NotifyAccess=all
KillMode=mixed
KillSignal=SIGQUIT
TimeoutStopSec=300
[Install]
WantedBy=multi-user.target
EOF
```

Note: Replace YOURHOSTNAME in the next files with the hostname on which your Indico instance should be available, e.g. indico.yourdomain.com

```
cat > /etc/httpd/conf.d/indico-sslredir.conf <<'EOF'</pre>
<VirtualHost *:80>
   ServerName YOURHOSTNAME
   RewriteEngine On
   RewriteRule ^(.*)$ https://%{HTTP_HOST}$1 [R=301,L]
</VirtualHost>
EOF
cat > /etc/httpd/conf.d/indico.conf <<'EOF'</pre>
<VirtualHost *:443>
    ServerName YOURHOSTNAME
   DocumentRoot "/var/empty/apache"
   SSLEngine
   SSLCertificateFile
                          /etc/ssl/indico/indico.crt
   SSLCertificateChainFile /etc/ssl/indico/indico.crt
   SSLCertificateKeyFile /etc/ssl/indico/indico.key
   SSLProtocol
                           all -SSLv3 -TLSv1 -TLSv1.1
                           ECDHE-ECDSA-AES128-GCM-SHA256:ECDHE-RSA-AES128-GCM-
   SSLCipherSuite
→SHA256:ECDHE-ECDSA-AES256-GCM-SHA384:ECDHE-RSA-AES256-GCM-SHA384:ECDHE-ECDSA-
→CHACHA20-POLY1305:ECDHE-RSA-CHACHA20-POLY1305:DHE-RSA-AES128-GCM-SHA256:DHE-RSA-
→AES256-GCM-SHA384
    SSLHonorCipherOrder
                           off
    SSLSessionTickets
                           off
   XSendFile on
   XSendFilePath /opt/indico
   CustomLog /opt/indico/log/apache/access.log combined
   ErrorLog /opt/indico/log/apache/error.log
```

```
LogLevel error
ServerSignature Off

<If "%{HTTP_HOST} != 'YOURHOSTNAME'">
Redirect 301 / https://YOURHOSTNAME/
</If>

AliasMatch "^/(images|fonts)(.*)/(.+?)(__v[0-9a-f]+)?\.([^.]+)$" "/opt/indico/web/

static/$1$2/$3.$5"
AliasMatch "^/(css|dist|images|fonts)/(.*)$" "/opt/indico/web/static/$1/$2"
Alias /robots.txt /opt/indico/web/static/robots.txt

SetEnv UWSGI_SCHEME https
ProxyPass / uwsgi://127.0.0.1:8008/

<Directory /opt/indico>
AllowOverride None
Require all granted
</Directory>
</VirtualHost>
EOF
```

Now enable the uwsgi proxy module in apache:

```
echo 'LoadModule proxy_uwsgi_module modules/mod_proxy_uwsgi.so' > /etc/httpd/conf.

→modules.d/proxy_uwsgi.conf
```

5. Create a TLS Certificate

First, create the folders for the certificate/key and set restrictive permissions on them:

```
mkdir /etc/ssl/indico
chown root:root /etc/ssl/indico/
chmod 700 /etc/ssl/indico
```

If you are just trying out Indico you can simply use a self-signed certificate (your browser will show a warning which you will have to confirm when accessing your Indico instance for the first time).

Note: Do not forget to replace YOURHOSTNAME with the same value you used above

```
openssl req -x509 -nodes -newkey rsa:4096 -subj /CN=YOURHOSTNAME -keyout /etc/ssl/\rightarrowindico/indico.key -out /etc/ssl/indico/indico.crt
```

While a self-signed certificate works for testing, it is not suitable for a production system. You can either buy a certificate from any commercial certification authority or get a free one from Let's Encrypt.

Note: There's an optional step later in this guide to get a certificate from Let's Encrypt. We can't do it right now since the Apache config references a directory yet to be created, which prevents Apache from starting.

6. Configure SELinux

Indico works fine with SELinux enabled, but you need to load a custom SELinux module to tell SELinux about Indico's files and how they should be handled.

```
cat > /tmp/indico.cil <<'EOF'
; define custom type that logrotate can access
(type indico_log_t)
(typeattributeset file_type (indico_log_t))
(typeattributeset logfile (indico_log_t))
(roletype object_r indico_log_t)
; allow logrotate to reload systemd services
(allow logrotate_t init_t (service (start)))
(allow logrotate_t policykit_t (dbus (send_msg)))
(allow policykit_t logrotate_t (dbus (send_msg)))
; make sure the uwsgi socket is writable by the webserver
(typetransition unconfined_service_t usr_t sock_file "uwsgi.sock" httpd_sys_rw_
(filecon "/opt/indico/web/uwsqi\.sock" socket (system_u object_r httpd_sys_rw_content_
→t ((s0)(s0))))
; set proper types for our log dirs
(filecon "/opt/indico/log(/.*)?" any (system_u object_r indico_log_t ((s0)(s0))))
(filecon "/opt/indico/log/apache(/.*)?" any (system_u object_r httpd_log_t_
\hookrightarrow ((s0)(s0)))
semodule -i /tmp/indico.cil
```

7. Install Indico

Celery runs as a background daemon. Add a systemd unit file for it:

```
cat > /etc/systemd/system/indico-celery.service <<'EOF'</pre>
[Unit]
Description=Indico Celery
After=network.target
[Service]
ExecStart=/opt/indico/.venv/bin/indico celery worker -B
Restart=always
SyslogIdentifier=indico-celery
User=indico
Group=apache
UMask=0027
Type=simple
KillMode=mixed
TimeoutStopSec=300
[Install]
WantedBy=multi-user.target
EOF
systemctl daemon-reload
```

Now create a user that will be used to run Indico and switch to it:

```
useradd -rm -g apache -d /opt/indico -s /bin/bash indico
su - indico
```

The first thing to do is installing pyenv - we use it to install the latest Python version as not all Linux distributions include it and like this Indico can benefit from the latest Python features.

```
curl -L https://github.com/pyenv/pyenv-installer/raw/master/bin/pyenv-installer | bash
cat >> ~/.bashrc <<'EOF'
export PATH="/opt/indico/.pyenv/bin:$PATH"
eval "$(pyenv init --path)"
eval "$(pyenv init -)"
EOF</pre>
source ~/.bashrc
```

You are now ready to install Python 3.9:

Run pyenv install --list | egrep '^\s \times 3\.9\.' to check for the latest available version and then install it and set it as the active Python version (replace x in both lines).

```
pyenv install 3.9.x
pyenv global 3.9.x
```

This may take a while since pyenv needs to compile the specified Python version. Once done, you may want to use python -V to confirm that you are indeed using the version you just installed.

You are now ready to install Indico:

```
python -m venv --upgrade-deps --prompt indico ~/.venv
source ~/.venv/bin/activate
export PATH="$PATH:/usr/pgsql-13/bin"
echo 'source ~/.venv/bin/activate' >> ~/.bashrc
pip install wheel
pip install uwsgi
pip install indico
```

8. Configure Indico

Once Indico is installed, you can run the configuration wizard. You can keep the defaults for most options, but make sure to use https://YOURHOSTNAME when prompted for the Indico URL. Also specify valid email addresses when asked and enter a valid SMTP server Indico can use to send emails. When asked for the default timezone make sure this is the main time zone used in your Indico instance.

```
indico setup wizard
```

Now finish setting up the directory structure and permissions:

```
mkdir ~/log/apache
chmod go-rwx ~/* ~/.[^.]*
chmod 710 ~/ ~/archive ~/cache ~/log ~/tmp
chmod 750 ~/web ~/.venv
chmod g+w ~/log/apache
restorecon -R ~/
echo -e "\nSTATIC_FILE_METHOD = 'xsendfile'" >> ~/etc/indico.conf
```

9. Create database schema

Finally you can create the database schema and switch back to root:

```
indico db prepare exit
```

10. Launch Indico

You can now start Indico and set it up to start automatically when the server is rebooted:

```
systemctl restart httpd.service indico-celery.service indico-uwsgi.service systemctl enable httpd.service postgresql-13.service redis.service indico-celery. 

service indico-uwsgi.service
```

11. Open the Firewall

```
firewall-cmd --permanent --add-port 443/tcp --add-port 80/tcp firewall-cmd --reload
```

Note: This is only needed if you use CC7 as CentOS 7/8 have no firewall enabled by default

12. Optional: Get a Certificate from Let's Encrypt

To avoid ugly TLS warnings in your browsers, the easiest option is to get a free certificate from Let's Encrypt. We also enable the cronjob to renew it automatically:

```
yum install -y python-certbot-apache certbot --apache --rsa-key-size 4096 --no-redirect --staple-ocsp -d YOURHOSTNAME rm -rf /etc/ssl/indico systemctl start certbot-renew.timer systemctl enable certbot-renew.timer
```

13. Create an Indico user

Access https://YOURHOSTNAME in your browser and follow the steps displayed there to create your initial user.

14. Install TeXLive

Follow the LaTeX install guide to install TeXLive so Indico can generate PDF files in various places.

Optional: Shibboleth

If your organization uses Shibboleth/SAML-based SSO, follow these steps to use it in Indico:

1. Install Shibboleth

Add the Shibboleth yum repository:

Note: If you use CC7, Shibboleth is already available and there is no need to add the repo manually.

If you use CentOS 7:

If you use CentOS 8:

Now install Shibboleth itself. When prompted to accept the GPG key of the Shibboleth yum repo, confirm the prompt.

```
setsebool httpd_can_network_connect 1
yum install -y shibboleth xmltooling-schemas opensaml-schemas
```

2. Configure Shibboleth

This is outside the scope of this documentation and depends on your environment (Shibboleth, SAML, ADFS, etc). Please contact whoever runs your SSO infrastructure if you need assistance.

3. Enable Shibboleth in Apache

Add the following code to your /etc/httpd/conf.d/indico.conf right before the AliasMatch lines:

```
<LocationMatch "^(/Shibboleth\.sso|/login/shib-sso/shibboleth)">
   AuthType shibboleth
   ShibRequestSetting requireSession 1
   ShibExportAssertion Off
   Require valid-user
</LocationMatch>
```

4. Enable Shibboleth in Indico

Add the following code to your /opt/indico/etc/indico.conf:

```
# SSO
AUTH_PROVIDERS = {
    'shib-sso': {
        'type': 'shibboleth',
        'title': 'SSO',
        'attrs_prefix': 'ADFS_',
        'callback_uri': '/login/shib-sso/shibboleth',
        # 'logout_uri': 'https://login.yourcompany.tld/logout'
    }
}
```

The values for attrs_prefix, mapping and identifier_field may be different in your environment. Uncomment and set logout_uri if your SSO infrastructure provides a logout URL (usually used to log you out from all applications).

If you only want to use SSO, without allowing people to login locally using username/password, disable it by setting LOCAL IDENTITIES = False in indico.conf.

Warning: We assume that emails received from SSO are already validated. If this is not the case, make sure to disable trusted_email which will require email validation in Indico when logging in for the first time. Otherwise people could take over the account of someone else by using their email address!

Note: The example config is rather simple and only accesses data from SSO during login. This is not sufficient for advanced features such as automatic synchronization of names, affiliations and phone numbers or using centrally managed groups. To use these features, you need to use e.g. the LDAP identity provider and use the information received via SSO to retrieve the user details from LDAP. If you need assistance with this, feel free to ask us on IRC (#indico @ Libera.Chat) or the forum.

Note: Please note that you **must** use Apache if you intend to use SSO using Shibboleth. If that's not the case because you do not use SSO at all or use e.g. OAuth, OIDC or SAML without Shibboleth, we recommend using nginx.

Debian / Ubuntu

Except for minor differences, this guide applies to both Debian and Ubuntu. It has been tested with Debian 10 (Buster) and Ubuntu 20.04 (Focal).

Warning: Older distributions may work, but they are unsupported. We do not recommend using those unless you have a strong reason for it and the necessary system administration knowledge to know how to deal with compatibility issues should any arise.

nginx

Note: Please note that you **must** use Apache if you intend to use SSO using Shibboleth. If that's not the case because you do not use SSO at all or use e.g. OAuth, OIDC or SAML without Shibboleth, we recommend using nginx.

1. Install Packages

PostgreSQL and nginx are installed from their upstream repos to get much more recent versions.

If you use Debian, run this command:

```
apt install -y libjpeg62-turbo-dev
```

If you use Ubuntu, run this instead:

```
apt install -y libjpeg-turbo8-dev zlib1g-dev
```

Afterwards, make sure the services you just installed are running:

```
systemctl start postgresql.service redis-server.service
```

2. Create a Database

Let's create a user and database for indico and enable the necessary Postgres extensions (which can only be done by the Postgres superuser).

```
su - postgres -c 'createuser indico'
su - postgres -c 'createdb -O indico indico'
su - postgres -c 'psql indico -c "CREATE EXTENSION unaccent; CREATE EXTENSION pg_trgm;
→"'
```

Warning: Do not forget to setup a cronjob that creates regular database backups once you start using Indico in production!

3. Configure uWSGI & nginx

The default uWSGI and nginx configuration files should work fine in most cases.

```
cat > /etc/uwsqi-indico.ini <<'EOF'</pre>
[uwsgi]
uid = indico
gid = nginx
umask = 027
processes = 4
enable-threads = true
chmod-socket = 770
chown-socket = indico:nginx
socket = /opt/indico/web/uwsgi.sock
stats = /opt/indico/web/uwsgi-stats.sock
protocol = uwsgi
master = true
auto-procname = true
procname-prefix-spaced = indico
disable-logging = true
single-interpreter = true
touch-reload = /opt/indico/web/indico.wsgi
wsgi-file = /opt/indico/web/indico.wsgi
virtualenv = /opt/indico/.venv
vacuum = true
buffer-size = 20480
memory-report = true
max-requests = 2500
harakiri = 900
harakiri-verbose = true
reload-on-rss = 2048
evil-reload-on-rss = 8192
EOF
```

We also need a systemd unit to start uWSGI.

```
cat > /etc/systemd/system/indico-uwsqi.service <<'EOF'</pre>
[Unit]
Description=Indico uWSGI
After=network.target
[Service]
ExecStart=/opt/indico/.venv/bin/uwsgi --ini /etc/uwsgi-indico.ini
ExecReload=/bin/kill -HUP $MAINPID
Restart=always
SyslogIdentifier=indico-uwsgi
User=indico
Group=nginx
UMask=0027
Type=notify
NotifyAccess=all
KillMode=mixed
KillSignal=SIGQUIT
TimeoutStopSec=300
[Install]
```

```
WantedBy=multi-user.target
EOF
```

Note: Replace YOURHOSTNAME in the next file with the hostname on which your Indico instance should be available, e.g. indico.yourdomain.com

```
cat > /etc/nginx/conf.d/indico.conf <<'EOF'</pre>
server {
 listen 80;
 listen [::]:80;
 server_name YOURHOSTNAME;
 return 301 https://$server_name$request_uri;
server {
             *:443 ssl http2;
 listen
 listen
              [::]:443 ssl http2 default ipv6only=on;
 server_name YOURHOSTNAME;
                           /etc/ssl/indico/indico.crt;
 ssl_certificate
 ssl_certificate_key
                           /etc/ssl/indico/indico.key;
 ssl_dhparam
                           /etc/ssl/indico/ffdhe2048;
 ssl_session_timeout
                           1d;
                           shared:SSL:10m;
 ssl_session_cache
                          off;
 ssl_session_tickets
 ssl_protocols
                          TLSv1.2 TLSv1.3;
 ssl_ciphers
                           ECDHE-ECDSA-AES128-GCM-SHA256:ECDHE-RSA-AES128-GCM-
→SHA256:ECDHE-ECDSA-AES256-GCM-SHA384:ECDHE-RSA-AES256-GCM-SHA384:ECDHE-ECDSA-
→CHACHA20-POLY1305:ECDHE-RSA-CHACHA20-POLY1305:DHE-RSA-AES128-GCM-SHA256:DHE-RSA-
→AES256-GCM-SHA384;
 ssl_prefer_server_ciphers off;
 access_log
                       /opt/indico/log/nginx/access.log combined;
 error_log
                       /opt/indico/log/nginx/error.log;
 if ($host != $server_name) {
   rewrite ^/(.*) https://$server_name/$1 permanent;
  }
 location /.xsf/indico/ {
   internal;
   alias /opt/indico/;
 location ~ ^/(images|fonts)(.*)/(.+?)(__v[0-9a-f]+)?\.([^.]+)$ {
   alias /opt/indico/web/static/$1$2/$3.$5;
   access_log off;
 location ~ ^/(css|dist|images|fonts)/(.*)$ {
  alias /opt/indico/web/static/$1/$2;
   access_log off;
  }
```

```
location /robots.txt {
    alias /opt/indico/web/static/robots.txt;
    access_log off;
}

location / {
    root /var/empty/nginx;
    include /etc/nginx/uwsgi_params;
    uwsgi_pass unix:/opt/indico/web/uwsgi.sock;
    uwsgi_param UWSGI_SCHEME $scheme;
    uwsgi_parad_timeout 15m;
    uwsgi_buffers 32 32k;
    uwsgi_busy_buffers_size 128k;
    uwsgi_busy_buffers_size 128k;
    uwsgi_hide_header X-Sendfile;
    client_max_body_size 1G;
}
```

4. Create a TLS Certificate

First, create the folders for the certificate/key and set restrictive permissions on them:

```
mkdir /etc/ssl/indico
chown root:root /etc/ssl/indico/
chmod 700 /etc/ssl/indico
```

We also use a strong set of pre-generated DH params (ffdhe2048 from RFC7919) as suggested in Mozilla's TLS config recommendations:

```
cat > /etc/ssl/indico/ffdhe2048 <<'EOF'
----BEGIN DH PARAMETERS-----
MIIBCAKCAQEA//////+t+FRYortKmq/cViAnPTzx2LnFg84tNpWp4TZBFGQz
+8yTnc4kmz75fS/jY2MMddj2gblCrsRhetPfHtXV/WVhJDP1H18GbtCFY2VVPe0a
87VXE15/V8k1mE8McODmi3fipona8+/och3xWKE2rec1MKzKT0g6eXq8CrGCsyT7
YdEIqUuyyOP7uWrat2DX9GgdT0Kj3jlN9K5W7edjcrsZCwenyO4KbXCeAvzhzffi
7MA0BM0oNC9hkXL+nOmFg/+OTxIy7vKBg8P+OxtMb61zO7X8vC7CIAXFjvGDfRaD
ssbzSibBsu/6iGtCOGEoXJf//////wIBAg==
----END DH PARAMETERS-----
EOF</pre>
```

If you are just trying out Indico you can simply use a self-signed certificate (your browser will show a warning which you will have to confirm when accessing your Indico instance for the first time).

Note: Do not forget to replace YOURHOSTNAME with the same value you used above

```
openssl req -x509 -nodes -newkey rsa:4096 -subj /CN=YOURHOSTNAME -keyout /etc/ssl/\rightarrowindico/indico.key -out /etc/ssl/indico/indico.crt
```

While a self-signed certificate works for testing, it is not suitable for a production system. You can either buy a certificate from any commercial certification authority or get a free one from Let's Encrypt.

Note: There's an optional step later in this guide to get a certificate from Let's Encrypt. We can't do it right now since the nginx config references a directory yet to be created, which prevents nginx from starting.

5. Install Indico

Celery runs as a background daemon. Add a systemd unit file for it:

```
cat > /etc/systemd/system/indico-celery.service <<'EOF'</pre>
[Unit]
Description=Indico Celery
After=network.target
[Service]
ExecStart=/opt/indico/.venv/bin/indico celery worker -B
Restart=always
SyslogIdentifier=indico-celery
User=indico
Group=nginx
UMask=0027
Type=simple
KillMode=mixed
TimeoutStopSec=300
[Install]
WantedBy=multi-user.target
systemctl daemon-reload
```

Now create a user that will be used to run Indico and switch to it:

```
useradd -rm -g nginx -d /opt/indico -s /bin/bash indico
su - indico
```

The first thing to do is installing pyenv - we use it to install the latest Python version as not all Linux distributions include it and like this Indico can benefit from the latest Python features.

```
curl -L https://github.com/pyenv/pyenv-installer/raw/master/bin/pyenv-installer | bash
cat >> ~/.bashrc <<'EOF'
export PATH="/opt/indico/.pyenv/bin:$PATH"
eval "$(pyenv init --path)"
eval "$(pyenv init -)"
EOF
source ~/.bashrc</pre>
```

You are now ready to install Python 3.9:

Run pyenv install --list | egrep '^\s \times 3\.9\.' to check for the latest available version and then install it and set it as the active Python version (replace x in both lines).

```
pyenv install 3.9.x pyenv global 3.9.x
```

This may take a while since pyenv needs to compile the specified Python version. Once done, you may want to use python -V to confirm that you are indeed using the version you just installed.

You are now ready to install Indico:

```
python -m venv --upgrade-deps --prompt indico ~/.venv
source ~/.venv/bin/activate
echo 'source ~/.venv/bin/activate' >> ~/.bashrc
pip install wheel
pip install uwsgi
pip install indico
```

6. Configure Indico

Once Indico is installed, you can run the configuration wizard. You can keep the defaults for most options, but make sure to use https://YOURHOSTNAME when prompted for the Indico URL. Also specify valid email addresses when asked and enter a valid SMTP server Indico can use to send emails. When asked for the default timezone make sure this is the main time zone used in your Indico instance.

```
indico setup wizard
```

Now finish setting up the directory structure and permissions:

7. Create database schema

Finally, you can create the database schema and switch back to *root*:

```
indico db prepare exit
```

8. Launch Indico

You can now start Indico and set it up to start automatically when the server is rebooted:

```
systemctl restart nginx.service indico-celery.service indico-uwsgi.service systemctl enable nginx.service postgresql.service redis-server.service indico-celery.
```

9. Optional: Get a Certificate from Let's Encrypt

Note: You need to use at least Debian 9 (Stretch) to use certbot. If you are still using Debian 8 (Jessie), consider updating or install certbot from backports.

If you use Ubuntu, install the certbot PPA:

```
apt install -y software-properties-common
add-apt-repository -y ppa:certbot/certbot
apt update
```

To avoid ugly TLS warnings in your browsers, the easiest option is to get a free certificate from Let's Encrypt. We also enable the cronjob to renew it automatically:

```
apt install -y python-certbot-nginx certbot --nginx --rsa-key-size 4096 --no-redirect --staple-ocsp -d YOURHOSTNAME rm -rf /etc/ssl/indico systemctl start certbot.timer systemctl enable certbot.timer
```

10. Create an Indico user

Access https://YOURHOSTNAME in your browser and follow the steps displayed there to create your initial user.

11. Install TeXLive

Follow the *LaTeX install guide* to install TeXLive so Indico can generate PDF files in various places.

Apache

1. Install Packages

PostgreSQL is installed from its upstream repos to get a much more recent version.

If you use Debian, run this command:

```
apt install -y libjpeg62-turbo-dev
```

If you use Ubuntu, run this instead:

```
apt install -y libjpeg-turbo8-dev zlib1g-dev
```

Afterwards, make sure the services you just installed are running:

```
systemctl start postgresql.service redis-server.service
```

2. Create a Database

Let's create a user and database for indico and enable the necessary Postgres extensions (which can only be done by the Postgres superuser).

```
su - postgres -c 'createuser indico'
su - postgres -c 'createdb -O indico indico'
su - postgres -c 'psql indico -c "CREATE EXTENSION unaccent; CREATE EXTENSION pg_trgm;

""
```

Warning: Do not forget to setup a cronjob that creates regular database backups once you start using Indico in production!

3. Configure uWSGI & Apache

The default uWSGI and Apache configuration files should work fine in most cases.

```
cat > /etc/uwsgi-indico.ini <<'EOF'</pre>
[uwsqi]
uid = indico
gid = www-data
umask = 027
processes = 4
enable-threads = true
socket = 127.0.0.1:8008
stats = /opt/indico/web/uwsgi-stats.sock
protocol = uwsgi
master = true
auto-procname = true
procname-prefix-spaced = indico
disable-logging = true
single-interpreter = true
touch-reload = /opt/indico/web/indico.wsgi
wsgi-file = /opt/indico/web/indico.wsgi
virtualenv = /opt/indico/.venv
vacuum = true
buffer-size = 20480
memory-report = true
max-requests = 2500
harakiri = 900
harakiri-verbose = true
reload-on-rss = 2048
evil-reload-on-rss = 8192
EOF
```

We also need a systemd unit to start uWSGI.

```
cat > /etc/systemd/system/indico-uwsgi.service <<'EOF'
[Unit]</pre>
```

```
Description=Indico uWSGI
After=network.target
[Service]
ExecStart=/opt/indico/.venv/bin/uwsgi --ini /etc/uwsgi-indico.ini
ExecReload=/bin/kill -HUP $MAINPID
Restart=always
SyslogIdentifier=indico-uwsgi
User=indico
Group=www-data
UMask=0027
Type=notify
NotifyAccess=all
KillMode=mixed
KillSignal=SIGQUIT
TimeoutStopSec=300
[Install]
WantedBy=multi-user.target
```

Note: Replace YOURHOSTNAME in the next files with the hostname on which your Indico instance should be available, e.g. indico.yourdomain.com

```
cat > /etc/apache2/sites-available/indico-sslredir.conf <<'EOF'</pre>
<VirtualHost *:80>
   ServerName YOURHOSTNAME
   RewriteEngine On
   RewriteRule ^(.*)$ https://%{HTTP_HOST}$1 [R=301,L]
</VirtualHost>
EOF
cat > /etc/apache2/sites-available/indico.conf <<'EOF'</pre>
<VirtualHost *:443>
    ServerName YOURHOSTNAME
   DocumentRoot "/var/empty/apache"
   Protocols h2 http/1.1
   SSLEngine
                          on
   SSLCertificateFile /etc/ssl/indico/indico.crt
   SSLCertificateKeyFile /etc/ssl/indico/indico.key
                         all -SSLv3 -TLSv1 -TLSv1.1
   SSLProtocol
   SSLCipherSuite
                          ECDHE-ECDSA-AES128-GCM-SHA256:ECDHE-RSA-AES128-GCM-
→SHA256:ECDHE-ECDSA-AES256-GCM-SHA384:ECDHE-RSA-AES256-GCM-SHA384:ECDHE-ECDSA-
→CHACHA20-POLY1305:ECDHE-RSA-CHACHA20-POLY1305:DHE-RSA-AES128-GCM-SHA256:DHE-RSA-
→AES256-GCM-SHA384
    SSLHonorCipherOrder
    SSLSessionTickets
                          off
   XSendFile on
   XSendFilePath /opt/indico
   CustomLog /opt/indico/log/apache/access.log combined
   ErrorLog /opt/indico/log/apache/error.log
```

Now enable the necessary modules and the indico site in apache:

```
a2enmod proxy_uwsgi rewrite ssl xsendfile
a2dissite 000-default
a2ensite indico indico-sslredir
```

4. Create a TLS Certificate

First, create the folders for the certificate/key and set restrictive permissions on them:

```
mkdir /etc/ssl/indico
chown root:root /etc/ssl/indico/
chmod 700 /etc/ssl/indico
```

If you are just trying out Indico you can simply use a self-signed certificate (your browser will show a warning which you will have to confirm when accessing your Indico instance for the first time).

Note: Do not forget to replace YOURHOSTNAME with the same value you used above

```
openssl req -x509 -nodes -newkey rsa:4096 -subj /CN=YOURHOSTNAME -keyout /etc/ssl/\rightarrowindico/indico.key -out /etc/ssl/indico/indico.crt
```

While a self-signed certificate works for testing, it is not suitable for a production system. You can either buy a certificate from any commercial certification authority or get a free one from Let's Encrypt.

Note: There's an optional step later in this guide to get a certificate from Let's Encrypt. We can't do it right now since the Apache config references a directory yet to be created, which prevents Apache from starting.

5. Install Indico

Celery runs as a background daemon. Add a systemd unit file for it:

```
cat > /etc/systemd/system/indico-celery.service <<'EOF'</pre>
[Unit]
Description=Indico Celery
After=network.target
[Service]
ExecStart=/opt/indico/.venv/bin/indico celery worker -B
Restart=always
SyslogIdentifier=indico-celery
User=indico
Group=www-data
UMask=0027
Type=simple
KillMode=mixed
TimeoutStopSec=300
[Install]
WantedBy=multi-user.target
systemctl daemon-reload
```

Now create a user that will be used to run Indico and switch to it:

```
useradd -rm -g www-data -d /opt/indico -s /bin/bash indico
su - indico
```

The first thing to do is installing pyenv - we use it to install the latest Python version as not all Linux distributions include it and like this Indico can benefit from the latest Python features.

```
curl -L https://github.com/pyenv/pyenv-installer/raw/master/bin/pyenv-installer | bash
cat >> ~/.bashrc <<'EOF'
export PATH="/opt/indico/.pyenv/bin:$PATH"
eval "$(pyenv init --path)"
eval "$(pyenv init -)"
EOF</pre>
source ~/.bashrc
```

You are now ready to install Python 3.9:

Run pyenv install --list | egrep '^\s*3\.9\.' to check for the latest available version and then install it and set it as the active Python version (replace x in both lines).

```
pyenv install 3.9.x
pyenv global 3.9.x
```

This may take a while since pyenv needs to compile the specified Python version. Once done, you may want to use python -V to confirm that you are indeed using the version you just installed.

You are now ready to install Indico:

```
python -m venv --upgrade-deps --prompt indico ~/.venv
source ~/.venv/bin/activate
echo 'source ~/.venv/bin/activate' >> ~/.bashrc
pip install wheel
pip install uwsgi
pip install indico
```

6. Configure Indico

Once Indico is installed, you can run the configuration wizard. You can keep the defaults for most options, but make sure to use https://YOURHOSTNAME when prompted for the Indico URL. Also specify valid email addresses when asked and enter a valid SMTP server Indico can use to send emails. When asked for the default timezone make sure this is the main time zone used in your Indico instance.

```
indico setup wizard
```

Now finish setting up the directory structure and permissions:

```
mkdir ~/log/apache
chmod go-rwx ~/* ~/.[^.]*
chmod 710 ~/ ~/archive ~/cache ~/log ~/tmp
chmod 750 ~/web ~/.venv
chmod g+w ~/log/apache
echo -e "\nSTATIC_FILE_METHOD = 'xsendfile'" >> ~/etc/indico.conf
```

7. Create database schema

Finally, you can create the database schema and switch back to *root*:

```
indico db prepare exit
```

8. Launch Indico

You can now start Indico and set it up to start automatically when the server is rebooted:

```
systemctl restart apache2.service indico-celery.service indico-uwsgi.service systemctl enable apache2.service postgresql.service redis-server.service indico-ucsgi.service
```

9. Optional: Get a Certificate from Let's Encrypt

Note: You need to use at least Debian 9 (Stretch) to use certbot. If you are still using Debian 8 (Jessie), consider updating or install certbot from backports.

If you use Ubuntu, install the certbot PPA:

```
apt install -y software-properties-common
add-apt-repository -y ppa:certbot/certbot
apt update
```

To avoid ugly TLS warnings in your browsers, the easiest option is to get a free certificate from Let's Encrypt. We also enable the cronjob to renew it automatically:

```
apt install -y python-certbot-apache certbot -- apache -- rsa-key-size 4096 -- no-redirect -- staple-ocsp -d YOURHOSTNAME rm -rf /etc/ssl/indico systemctl start certbot.timer systemctl enable certbot.timer
```

10. Create an Indico user

Access https://YOURHOSTNAME in your browser and follow the steps displayed there to create your initial user.

11. Install TeXLive

Follow the *LaTeX install guide* to install TeXLive so Indico can generate PDF files in various places.

Optional: Shibboleth

If your organization uses Shibboleth/SAML-based SSO, follow these steps to use it in Indico:

1. Install Shibboleth

```
apt install -y libapache2-mod-shib2
a2enmod shib2
```

2. Configure Shibboleth

This is outside the scope of this documentation and depends on your environment (Shibboleth, SAML, ADFS, etc). Please contact whoever runs your SSO infrastructure if you need assistance.

3. Enable Shibboleth in Apache

Add the following code to your /etc/apache2/sites-available/indico.conf right before the AliasMatch lines:

```
<LocationMatch "^(/Shibboleth\.sso|/login/shib-sso/shibboleth)">
   AuthType shibboleth
   ShibRequestSetting requireSession 1
   ShibExportAssertion Off
   Require valid-user
</LocationMatch>
```

4. Enable Shibboleth in Indico

Add the following code to your /opt/indico/etc/indico.conf:

```
# SSO
AUTH_PROVIDERS = {
    'shib-sso': {
        'type': 'shibboleth',
        'title': 'SSO',
        'attrs_prefix': 'ADFS_',
        'callback_uri': '/login/shib-sso/shibboleth',
        # 'logout_uri': 'https://login.yourcompany.tld/logout'
    }
IDENTITY_PROVIDERS = {
    'shib-sso': {
        'type': 'shibboleth',
        'title': 'SSO',
        'identifier_field': 'ADFS_LOGIN',
        'mapping': {
            'affiliation': 'ADFS_HOMEINSTITUTE',
            'first_name': 'ADFS_FIRSTNAME',
            'last_name': 'ADFS_LASTNAME',
            'email': 'ADFS_EMAIL',
            'phone': 'ADFS_PHONENUMBER'
        'trusted_email': True
    }
```

The values for attrs_prefix, mapping and identifier_field may be different in your environment. Uncomment and set logout_uri if your SSO infrastructure provides a logout URL (usually used to log you out from all applications).

If you only want to use SSO, without allowing people to login locally using username/password, disable it by setting LOCAL_IDENTITIES = False in indico.conf.

Warning: We assume that emails received from SSO are already validated. If this is not the case, make sure to disable trusted_email which will require email validation in Indico when logging in for the first time. Otherwise people could take over the account of someone else by using their email address!

Note: The example config is rather simple and only accesses data from SSO during login. This is not sufficient for advanced features such as automatic synchronization of names, affiliations and phone numbers or using centrally managed groups. To use these features, you need to use e.g. the LDAP identity provider and use the information received via SSO to retrieve the user details from LDAP. If you need assistance with this, feel free to ask us on IRC (#indico @ Libera.Chat) or the forum.

Note: Please note that you **must** use Apache if you intend to use SSO using Shibboleth. If that's not the case because you do not use SSO at all or use e.g. OAuth, OIDC or SAML without Shibboleth, we recommend using nginx.

1.1.2 Upgrade

It is important to keep your Indico instance up to date to have the latest bug fixes and features. Upgrading can be done with almost no user-facing downtime.

Warning: When upgrading a production system it is highly recommended to create a database backup before starting.

Upgrading between 3.x versions

First of all, stop the Celery worker. To do so, run this as *root*:

```
systemctl stop indico-celery.service
```

Now switch to the *indico* user and activate the virtualenv:

```
su - indico
source ~/.venv/bin/activate
```

If you are on CentOS, update your PATH to avoid errors in case the new Indico version needs to install an updated version of the PostgreSQL client library (psycopg2):

```
export PATH="$PATH:/usr/pgsql-13/bin"
```

You are now ready to install the latest version of Indico:

```
pip install -U indico
```

If you installed the official plugins, update them too:

```
pip install -U indico-plugins
```

It is a good idea to ensure you are using the latest recommended Python version:

```
indico setup upgrade-python
```

Some versions may include database schema upgrades. Make sure to perform them immediately after upgrading. If there are no schema changes, the command will simply do nothing.

```
indico db upgrade indico db --all-plugins upgrade
```

Note: Some database structure changes require an *exclusive lock* on some tables in the database. Unless you have very high activity on your instance, this lock can be acquired quickly, but if the upgrade command seems to hang for more than a few seconds, you can restart uWSGI by running systematl restart uwsgi.service as *root* (in a separate shell, i.e. don't abort the upgrade command!) which will ensure nothing is accessing Indico for a moment.

Unless you just restarted uWSGI, it is now time to reload it so the new version is actually used:

```
touch ~/web/indico.wsgi
```

Also start the Celery worker again (once again, as *root*):

systemctl start indico-celery.service

Upgrading from 2.x to 3.x

The upgrade from 2.x to 3.x is a major change since Indico now requires Python 3. We also strongly recommend upgrading your database to PostgreSQL 13.

Note: There are no changes that require the newer Postgres version immediately, but we no longer test on versions older than Postgres 12, and thus can give you no guarantees that things will keep working on older versions such as 9.6.

Warning: If you are using any custom plugins they will most likely no longer work and need to be updated. Contact the developers of these plugins to see whether they already have a version compatible with Python 3 and Indico 3.

Due to the significant changes in the environment, we recommend using a **freshly installed server/VM** with the latest long-term-supported version of your preferred Linux distribution.

Note: If you are using CentOS, staying with CentOS 7 is recommended as CentOS 8 actually has a much earlier end-of-life date (end of 2021) than CentOS 7 (mid 2024), and running Indico with Apache on CentOS 8 is currently not supported.

When following the *production installation guide*, there are a few places where you need to do something differently:

- Instead of running indico db prepare, restore a dump of your old Postgres database
- You still need to run indico setup wizard to create some of the directories, but compare the generated
 config file with your old one and update any settings you may have changed manually (e.g. for LDAP or SSO
 authentication)
- Copy the contents of the /opt/indico/archive folder from your old instance and ensure owner, group and permissions are correct. This step is critical as this folder contains all the files uploaded to Indico

If you need any help with the upgrade or encounter any issues, please open a thread in our forum.

Upgrading from 2.x to 3.x in-place

Warning: If you are not experienced with Linux system administration, we highly recommend you to either ask someone from your IT department for assistance and/or follow our recommendation of using a new server/VM to install Indico v3.

In case you prefer to perform the upgrade in place on your existing server, you will need to compare the installation guides of 2.3 and 3.x and apply the differences manually. This should be fairly easy for someone with Linux system administration experience, but here are some important points:

- Create a backup of both your Postgres database and /opt/indico/archive
- Stop, disable and and uninstall uWSGI and delete the old config file. To support the latest Python version uWSGI is now installed into the Indico virtual environment using pip

- Delete the ~/.venv folder of the Indico user and recreate it using the commands from the setup guide
- Make sure to update your webserver config to use the more modern TLS defaults

1.1.3 Upgrade Indico from 1.2

The migration tool (indico-migrate) requires Python 2.7 and Indico 2.0. It is not supported by Indico v3 nor will it work on Python 3.

If you still need to migrate a legacy instance from the 1.x (or older), please consult the documentation from Indico v2. You may also want to consider running the migration on a separate virtual machine in order to not clutter the server that will run Indico v3 with legacy tools and software.

1.1.4 Installation guide (development)

Installing System Packages

Web assets such as JavaScript and SCSS files are compiled using Webpack, which requires NodeJS to be present. You can find information on how to install NodeJS here.

Do not use the default NodeJS packages from your Linux distribution as they are usually outdated or come with an outdated npm version.

Since only few Linux distributions include Python 3.9 in their package managers, we recommend installing pyenv and then install the latest Python 3.9 version using pyenv install 3.9.6 (adapt this command in case a newer version is available).

Tip: You can run pyenv doctor once you installed and enabled pyenv in order to see whether all dependencies are met. There's a good chance that you need to install some additional system packages beyond those listed below, and using this tool will tell you what exactly you need.

CentOS/Fedora

```
yum install -y gcc redis libjpeg-turbo-devel libxslt-devel libxml2-devel \
    libffi-devel pcre-devel libyaml-devel redhat-rpm-config \
    postgresql postgresql-server postgresql-contrib libpq-devel
systemctl start redis.service postgresql.service
```

Debian/Ubuntu

```
apt install -y --install-recommends libxslt1-dev libxml2-dev libffi-dev libpcre3-dev \ libyaml-dev build-essential redis-server postgresql libpq-dev
```

Then on Debian:

```
apt install -y libjpeg62-turbo-dev
```

And on Ubuntu:

```
apt install -y libjpeg-turbo8-dev zlib1g-dev
```

macOS

We recommend that you use Homebrew:

```
brew install redis libjpeg libffi pcre libyaml postgresql
brew services start postgresql
brew services start redis
```

Creating the directory structure

You will need a directory in your file system to store Indico as well as its data files (archives, etc...). Some developers keep all their code inside a dev or code dir. We will assume dev here.

```
mkdir -p ~/dev/indico/data
```

We will need a virtualeny where to run Indico:

```
cd ~/dev/indico
pyenv local 3.9.6
python -m venv env
```

Note: After setting the version with pyenv, it's a good idea to use python -V to ensure you are really running that particular Python version; depending on the shell you may need to restart your shell first. In case you installed a newer version than 3.9.6 earlier, adapt the pyenv command accordingly.

Cloning Indico

First, let's clone Indico's code base. If you're going to contribute back to the project, it's probably best if you clone your own GitHub fork of the project and set it as the origin:

```
git clone git@github.com:<your-github-username>/indico.git src cd src git remote add upstream https://github.com/indico/indico.git cd ..
```

Otherwise, cloning the upstream repository as the origin should be enough:

```
git clone https://github.com/indico/indico.git src
```

If you're going to be changing the standard Indico plugins and/or the documentation, you can also clone those:

```
mkdir plugins
git clone https://github.com/indico/indico-plugins.git plugins/base
git clone https://github.com/indico/indico-user-docs.git user-docs
```

Setting up Maildump (recommended)

Some actions in Indico trigger automatic e-mails. Those will normally have to be routed through an SMTP server. This can become a problem if you're using production data and/or real e-mails, as users may end up being spammed unnecessarily. This is why we advise that you include a fake SMTP server in your development setup. Maildump does exactly this and runs on Python. It should be quite simple to set up:

```
python -m venv maildump
./maildump/bin/pip install -U pip setuptools wheel
./maildump/bin/pip install maildump
./maildump/bin/maildump -p /tmp/maildump.pid
```

You'll then be able to access the message log at http://localhost:1080.

Creating the DB

Configuring

Let's get into the Indico virtualenv:

```
source ./env/bin/activate
pip install -U pip setuptools wheel

cd src
pip install -e '.[dev]'
npm ci
```

Then, follow the instructions given by the wizard:

```
indico setup wizard --dev
```

You can then initialize the DB:

```
indico db prepare
```

To build the locales, use:

```
indico i18n compile-catalog indico i18n compile-catalog-react
```

Running Indico

You will need two shells running in parallel. The first one will run the webpack watcher, which compiles the JavaScript and style assets every time you change them:

```
./bin/maintenance/build-assets.py indico --dev --watch
```

On the second one we'll run the Indico Development server:

```
indico run -h <your-hostname> -q --enable-evalex
```

Double-check that your hostname matches that which has been set in the config file (by the wizard).

It is also worth mentioning that when working on a plugin, it is necessary to run another webpack watcher to build the plugin assets. That can be accomplished using the same command as above with an argument specifying which plugin you want to build the assets for:

```
./bin/maintenance/build-assets.py <plugin-name> --dev --watch
```

You can also build the assets for all the plugins:

```
./bin/maintenance/build-assets.py all-plugins --dev <plugins-directory>
```

Installing TeXLive (optional)

If you need PDF generation in certain parts of Indico to work (e.g. for contributions and the Book of Abstracts), you need LaTeX. To install it, follow the *LaTeX install guide*.

Using HTTPS through nginx (optional)

If you wish to open your development server to others, then we highly recommend that you properly set HTTPS. While you could do so directly at the development server, it's normally easier to proxy it through nginx and have it serve static files as well.

You should obviously install nginx first:

```
sudo yum install nginx # centos/fedora
sudo apt install nginx # debian/ubuntu
brew install nginx # macOS
```

Here is an example of a nginx.conf you can use. It assumes your username is jdoe and the hostname is acme. example.org:

```
user jdoe users;
worker_processes 4;
error_log /var/log/nginx/error.log info;
pid /run/nginx.pid;
events {
   worker_connections 1024;
   use epoll;
}
http {
   access_log off;
    sendfile on;
   tcp_nopush on;
   tcp_nodelay on;
                        75 20;
    keepalive_timeout
    types_hash_max_size 2048;
```

(continues on next page)

(continued from previous page)

```
ignore_invalid_headers on;
   connection_pool_size 256;
   client_header_buffer_size 10k;
   large_client_header_buffers 4 20k;
   request_pool_size 4k;
   client_max_body_size 2048m;
   proxy_buffers 32 32k;
   proxy_buffer_size 32k;
   proxy_busy_buffers_size 128k;
   gzip on;
   gzip_min_length 1100;
   gzip_buffers 4 8k;
   gzip_types text/plain text/css application/x-javascript;
   include
                       /etc/nginx/mime.types;
   default_type
                       application/octet-stream;
   server {
       listen [::]:80 ipv6only=off;
       server_name acme.example.org;
       access_log /var/log/nginx/acme.access_log combined;
       error_log /var/log/nginx/acme.error_log info;
       root /var/empty;
       return 302 https://$server_name$request_uri;
   }
   server {
       listen [::]:443 ipv6only=off http2;
       server_name acme.example.org;
       ssl on;
       ssl_protocols TLSv1 TLSv1.1 TLSv1.2;
       ssl_ciphers ECDHE-RSA-AES256-GCM-SHA384:ECDHE-RSA-AES128-GCM-SHA256:DHE-RSA-
→AES256-GCM-SHA384:ECDHE-RSA-AES256-SHA384:ECDHE-RSA-AES128-SHA256:ECDHE-RSA-AES256-
→SHA: ECDHE-RSA-AES128-SHA: DHE-RSA-AES256-SHA: DHE-RSA-AES128-SHA;
       ssl_prefer_server_ciphers on;
       ssl_certificate /home/jdoe/acme.crt;
       ssl_certificate_key /home/jdoe/acme.key;
       access_log /var/log/nginx/acme.ssl_access_log combined;
       error_log /var/log/nginx/acme.ssl_error_log info;
       root /var/empty;
       location \sim /(images|fonts)(.*)/(.+?)(_v[0-9a-f]+)?\.([^.]+)$ {
           alias /home/jdoe/dev/indico/src/indico/web/static/$1$2/$3.$5;
       location ~ ^/(css|dist|images|fonts)/(.*)$ {
           alias /home/jdoe/dev/indico/src/indico/web/static/$1/$2;
```

(continues on next page)

(continued from previous page)

```
location / {
    proxy_pass http://127.0.0.1:8000;
    proxy_set_header Host $server_name;
    proxy_set_header X-Forwarded-For $remote_addr;
    proxy_set_header X-Forwarded-Proto $scheme;
}
}
```

This configuration also assumes you've already got a secret key and certificate stored in ~/acme.key and acme.crt respectively. In most cases you will probably use a self-signed certificate. There are many guides on-line on how to generate a self-signed certificate, so we will not cover it here.

If you're using SELinux, you will need to set the following configuration options:

```
sudo setsebool -P httpd_can_network_connect 1
sudo setsebool -P httpd_read_user_content 1
```

Uploading large files will probably fail unless you do:

```
sudo chown -R jdoe:nginx /var/lib/nginx/tmp/
```

The Indico dev server should be run with the --proxy option:

```
indico run -h 127.0.0.1 -p 8000 -q --enable-evalex --url https://acme.example.org --\rightarrowproxy
```

You can then start nginx and access https://acme.example.org directly.

1.1.5 Plugins

We provide a meta-package that contains all official plugins. Before installing it, make sure you are logged in as the *indico* user and inside the Indico environment:

```
su - indico
source ~/.venv/bin/activate
```

Now install the package which will automatically install our plugins:

```
pip install indico-plugins
```

Note: Having all plugins installed has no disadvantages; only plugins enabled in indico.conf are actually loaded and executed. If you do not use the indico-plugins package, we won't be able to display a notification when updates are available and you would have to update all the plugins separately.

You can use the indico setup list-plugins command to see which plugins are installed and which name to use in the config file to load them.

To enable plugins, add a PLUGINS entry to /opt/indico/etc/indico.conf. For example, the following line would enable the "Bank Transfer" and "PayPal" payment plugins:

```
PLUGINS = {'payment_manual', 'payment_paypal'}
```

Some plugins contain additional database tables. Run the plugin database migrations to create them (if you do not have any plugins with custom tables, the command will simply do nothing):

```
indico db --all-plugins upgrade
```

After any change to the config file, you need to reload uWSGI:

```
touch ~/web/indico.wsgi
```

It is also a good idea to restart the Celery worker (as root) since some plugins may come with background tasks:

```
systemctl restart indico-celery.service
```

1.1.6 Translations

Indico comes with a number of languages by default. In release 2.3, those are: English (default), French, Portuguese, Spanish and Chinese (in the order of integration). Additional languages are being prepared on the Transifex platform.

In order to use (partially) existing translations from Transifex or to contribute translations, you need to register with the Indico project on the Transifex platform.

Additional Translations

This is a guide to set up an Indico instance with a new language. It is useful for translators to verify how the translation looks in production or for administrators who just want to lurk at the incubated translation embryos.

Alternatively, you may use this guide to expose a translation we do not officially support, in your production version.

1. Setup an Indico dev environment

This should usually be done on your own computer or a virtual machine.

For creating your own Indico instance, we provide two different guides: The first one is for a *production system*, it will prepare Indico to be served to users and used in all the different purposes you may have besides translations. The second is *development* a light-weight, easier to set up, version oriented to testing purposes, that should not be exposed to the public.

For the purpose of translation **development** or **testing** we recommend using the development version.

2. Install the transifex client

Follow the instructions on the transifex site.

3. Get an API token

Go to your transifex settings and generate an API token. Afterwards, you should run the command tx init --skipsetup. It will request the token you just copied from the previous settings and save it locally so you can start using transifex locally. If you do not know how to run this command, please refer to the transifex client guide.

4. Install the translations

Navigate to ~/dev/indico/src (assuming you used the standard locations from the dev setup guide).

Run tx pull -f -l <language_code>. Languages codes can be obtained here.

For example, Chinese (China) is zh_CN.GB2312.

5. Compile translations and run Indico

Run the commands indico i18n compile-catalog and indico i18n compile-catalog-react and:

- · launch Indico, or
- build and deploy your own version of Indico, if you wish to deploy the translation in a production version.

The language should now show up as an option in the top right corner.

In case you modified the .js resources, you also need to delete the cached files in \sim /dev/indico/data/cache/assets_i18n_*.js.

FAQ

Why isn't Indico loading my language?

Some languages in transifex use codes that Indico is not able to recognize. One example is the Chinese's zh_CN. GB2312. The easy fix for this is to rename the folder zh_CN.GB2312 (inside indico/translations/) to the extended locale code zh_Hant_TW. Unfortunately, there is no list with mappings for all the languages. So if by any reason it doesn't work for you, feel free to ask us.

Contributing

As a **translator**, you should have a good knowledge of the Indico functions (from the user side at least). Then you can subscribe to the abovementioned Transifex site for Indico and request membership of one of the translation teams. You should also contact the coordinators; some languages have specific coordinators assigned. They may point you to places, where work is needed and which rules have been agreed for the translations.

The glossary is usually of big help to obtain a uniform translation of all technical terms. Use it!

As a **programmer** or **developer**, you will have to be aware of the needs and difficulties of translation work. A Wiki page for Internationalisation is available from github (slightly outdated and we should eventually move it to this documentation). It describes the interface between translating and programming and some conventions to be followed. Everyone involved in translating or programming Indico should have read it before starting the work.

Whenever translaters spot difficult code (forgotten pluralization, typos), they should do their best to avoid double (or rather: multiple) work to their fellow translators. What is a problem for their translation, usually will be a problem for all translations. Don't hesitate to open an issue or pull request on GitHub. Repair first, then translate (and be aware that after repair, the translation has to be made again for all languages).

Note: The codebase also contains legacy code, which may not follow all rules.

File Organisation

The relationship between

- transifex resources names (core.js, core.py, core.react.js)
- PO file names (messages-js.po, messages-po, messages-react.po) and
- the actual place, where the strings are found

is not always obvious. Starting with the resource names, the files ending in

- .py refer to translations used with python and jinja templates,
- . js refer to translations used with generic or legacy javascript,
- react. js refer to translations used with the new react-based javascript.

These contain a relationship to PO files, as defined in the following example extracted from src/.tx/config.

```
[indico.<transifex resource slug>]
file_filter = indico/translations/<lang>/LC_MESSAGES/<PO file name>.po
source_file = indico/translations/<source file name>.pot
source_lang = en
type = PO
```

Note: The transifex resource slug is a name-like alias that identifies a particular file.

For more information regarding this subject a thread has started here.

1.1.7 LaTeX

Indico uses LaTeX (xelatex to be exact) to generate some PDF files such as the *Book of Abstracts* and the PDF versions of contributions. If you do not need these features, you can skip this part of the documentation and avoid installing LaTeX altogether.

Since Indico requires quite a few LaTeX packages which are not always] installed by default when using the texlive packages of the various linux distributions, we recommend installing it manually.

First of all, you will need to install some dependencies so that all TeX formats are generated successfully upon TeXLive installation.

```
yum install fontconfig ghostscript # CentOS / CC7 apt install libfontconfig1 ghostscript # Debian / Ubuntu
```

You are now ready to install TeXLive. The following commands should work fine to install everything you need. You need to run the installation as root or create / opt/texlive as root and grant your user write access to it.

Download the installer and cd to its location (the directory name contains the date when the package was built, so use the wildcard or type the name manually based on the output when unpacking the archive):

```
cd /tmp
wget http://mirror.ctan.org/systems/texlive/tlnet/install-tl-unx.tar.gz
tar xvzf install-tl-unx.tar.gz
cd install-tl-*/
```

Create the setup config file to install all the packages you need:

```
cat > texlive.profile <<'EOF'</pre>
selected scheme scheme-full
TEXDIR /opt/texlive
TEXMFCONFIG ~/.texlive/texmf-config
TEXMFHOME ~/texmf
TEXMFLOCAL /opt/texlive/texmf-local
TEXMFSYSCONFIG /opt/texlive/texmf-config
TEXMFSYSVAR /opt/texlive/texmf-var
TEXMFVAR ~/.texlive/texmf-var
binary_x86_64-linux 1
instopt_adjustpath 0
instopt_adjustrepo 0
instopt_letter 0
instopt_portable 0
instopt_write18_restricted 1
tlpdbopt_autobackup 1
tlpdbopt_backupdir tlpkg/backups
tlpdbopt_create_formats 1
tlpdbopt_generate_updmap 0
tlpdbopt_install_docfiles 0
tlpdbopt_install_srcfiles 0
tlpdbopt_post_code 1
tlpdbopt_sys_bin /usr/local/bin
tlpdbopt_sys_info /usr/local/share/info
tlpdbopt_sys_man /usr/local/share/man
EOF
```

Start the installer and wait for it to complete. This may take between a few minutes and a few hours depending on the speed of the (randomly chosen) mirror.

```
./install-tl --profile texlive.profile
```

After installing it, add this line to your indico.conf file to use your new TeXLive installation:

```
XELATEX_PATH = '/opt/texlive/bin/x86_64-linux/xelatex'
```

If you are in a production setup, reload uWSGI using touch /opt/indico/web/indico.wsgi to reload the config file.

As security-related updates are released frequently, it is also a good idea to periodically update the TeXLive packages by running:

```
/opt/texlive/bin/x86_64-linux/tlmgr update --self --all
```

Configuration

Indico is very flexible and many things can be configured/customized in its configuration file.

2.1 Configuration

Indico is very flexible and many things can be configured/customized in its configuration file.

2.1.1 Settings

indico.conf is Indico's main configuration file. Its initial version is usually generated when running indico setup wizard as described in the Installation Guide, but depending on the setup it should be modified later.

The config file is loaded from the path specified in the INDICO_CONFIG environment variable; if no such path is set, the config file (or a symlink to it) is searched in the following places, in order:

- <indico_package_path>/indico.conf (development setups only)
- ~/.indico.conf
- /etc/indico.conf

The file is executed as a Python module, so anything that is valid Python 2.7 code can be used in it. When defining temporary variables that are not config options, their name should be prefixed with an underscore; otherwise you will get a warning about unknowing config options being defined.

Authentication

LOCAL_IDENTITIES

This setting controls whether local Indico accounts are available. If no centralized authentication infrastructure (e.g. LDAP, OAuth, or another kind of SSO) is used, local accounts are the only way of logging in to Indico.

Default: True

LOCAL GROUPS

This setting controls whether local Indico groups are available. If no centralized authentication infrastructure that supports groups (e.g. LDAP) is used, local groups are the only way to define groups in Indico, but if you do have central groups it may be useful to disable local ones to have all groups in one central place.

Default: True

LOCAL REGISTRATION

This setting controls whether people accessing Indico can create a new account. Admins can always create new local accounts, regardless of this setting.

This setting is only taken into account if LOCAL_IDENTITIES are enabled.

Default: True

LOCAL MODERATION

This setting controls whether a new registration needs to be approved by an admin before the account is actually created.

This setting is only taken into account if LOCAL_IDENTITIES and LOCAL_REGISTRATION are enabled.

Default: False

FAILED LOGIN RATE LIMIT

Applies a rate limit to failed login attempts due to an invalid username or password. When specifying multiple rate limits separated with a semicolon, they are checked in that specific order, which can allow for a short burst of attempts (e.g. a legitimate user trying multiple passwords they commonly use) and then slowing down more strongly (in case someone tries to brute-force more than just a few passwords).

Rate limiting is applied by IP address and only failed logins count against the rate limit. It also does not apply to login attempts using external login systems (SSO) as failures there are rarely related to invalid credentials coming from the user (these would be rejected on the SSO side, which should implement its own rate limiting).

The default allows a burst of 15 attempts, and then only 5 attempts every 15 minutes for the next 24 hours. Setting the rate limit to None disables it.

Default: '5 per 15 minutes; 10 per day'

EXTERNAL_REGISTRATION_URL

The URL to an external page where people can register an account that can then be used to login to Indico (usually via LDAP/SSO).

This setting is only taken into account if LOCAL_IDENTITIES are disabled.

Default: None

AUTH PROVIDERS

A dict defining Flask-Multipass authentication providers used by Indico. The dict specified here is passed to the MULTIPASS AUTH PROVIDERS setting of Flask-Multipass.

Default: {}

IDENTITY PROVIDERS

A dict defining Flask-Multipass identity providers used by Indico to look up user information based on the data provided by an authentication provider. The dict specified here is passed to the MULTIPASS_IDENTITY_PROVIDERS setting of Flask-Multipass.

Default: { }

PROVIDER_MAP

If not specified, authentication and identity providers with the same name are linked automatically. The dict specified here is passed to the MULTIPASS PROVIDER MAP setting of Flask-Multipass.

Default: {}

Cache

REDIS CACHE URL

The URL of the redis server to use for caching.

If the Redis server requires authentication, use a URL like this: redis://unused:password@127.0.0.1:6379/1

If no authentication is used (usually the case with a local Redis server), you can omit the user/password part: redis://127.0.0.1:6379/1

Default: None

MEMCACHED SERVERS

The list of memcached servers (each entry is an ip:port string) to use with the memcached cache backend.

Default: []

Celery

CELERY BROKER

The URL of the Celery broker (usually Redis of AMQP) used for communication between Indico and the Celery background workers.

We recommend using Redis as it is the easiest option, but you can check the Celery documentation on brokers for more information on the other possible brokers.

Default: None

CELERY_RESULT_BACKEND

The URL of the Celery result backend. If not set, the same backend as the broker is used. Indico currently does not use task results, and we recommend leaving this setting at its default.

Default: None

CELERY CONFIG

A dict containing additional Celery settings.

Warning: This is an advanced setting that is rarely needed and we do not recommend using it unless you know exactly what you are doing! Changing Celery settings may break things or result in tasks not being executed without other changes (such as running additional celery workers on different queues).

One use case for this setting is routing certain tasks to a different queue, and then running multiple Celery workers for these queues.

```
CELERY_CONFIG = {
    'task_routes': {
        'indico_livesync.task.scheduled_update': {'queue': 'livesync'},
     }
}
```

Default: {}

SCHEDULED_TASK_OVERRIDE

A dict overriding the task schedule for specific tasks.

By default, all periodic tasks are enabled and use a schedule which we consider useful for most cases. Using this setting, you can override the default schedule.

The dict key is the name of the task and the value can be one of the following:

- None or False disables the task completely
- A dictionary, as described in the Celery documentation on periodic tasks. The task should not be specified, as it is set automatically.
- A timedelta or crontab object which will just override the schedule without changing any other
 options of the task. Both classes are available in the config file by default.

Note: Use indico celery inspect registered to get a list of task names. Celery must be running for this command to work.

Default: {}

Customization

CUSTOMIZATION DIR

The base path to the directory containing customizations for your Indico instance.

It is possible to override specific templates and add CSS and JavaScript for advanced customizations. When using this, be advised that depending on the modifications you perform things may break after an Indico update. Make sure to test all your modifications whenever you update Indico!

To include custom CSS and JavaScript, simply put *.css and *.js files into <CUSTOMIZATION_DIR>/css/<CUSTOMIZATION_DIR>/js. If there are multiple files, they will be included in alphabetical order, so prefixing them with a number (e.g. 00-base.css, 10-events.css) is a good idea.

Static files may be added in <CUSTOMIZATION_DIR>/files. They can be referenced in templates through the assets.custom endpoint. In CSS/JS, the URL for them needs to be built manually (/static/custom/files/...).

For template customizations, see the description of CUSTOMIZATION_DEBUG as this setting is highly recommended to figure out where exactly to put customized templates.

Here is an example for a template customization that includes a custom asset and uses inheritance to avoid having to replace the whole template:

Default: None

CUSTOMIZATION DEBUG

Whether to log details for all customizable templates the first time they are accessed. The log message contains the path where you need to store the template; this path is relative to <CUSTOMIZATION_DIR>/ templates/.

The log message also contains the full path of the original template in case you decide to copy it. However, instead of copying templates it is better to use Jinja inheritance where possible. To make this easier the log entry contains a "reference" path that can be used to reference the original template from the customized one.

Default: False

HELP URL

The URL used for the "Help" link in the footer.

Default: 'https://learn.getindico.io'

LOGO URL

The URL to a custom logo. If unset, the default Indico logo is used.

Default: None

CUSTOM COUNTRIES

A dict with country name overrides. This can be useful if the official ISO name of a country does not match what your Indico instance's target audience expects for a country, e.g. due to political situations.

```
CUSTOM_COUNTRIES = {'KP': 'North Korea'}
```

Default: { }

CUSTOM LANGUAGES

A dict with language/territory name overrides. This can be useful if the official territory name that goes along with a language does not match what your Indico instance's target audience expects for a country, e.g. due to political situations.

For example, to replace "Chinese (Simplified)" with "Chinese (China)", you would use:

```
CUSTOM_LANGUAGES = {'zh_Hans_CN': ('Chinese', 'Simplified')}
```

Note that the language and territory name should be written in that particular language to be consistent with the defaults. So in the example above, you would write "Chinese" and "Simplified" in Simplified Chinese.

Setting the territory (second element in the tuple) to None will hide it and only show the language name itself. Setting the dict value to None will effectively hide the language altogether.

Default: {}

Database

SQLALCHEMY_DATABASE_URI

The URI used to connect to the PostgreSQL database. For a local database, you can usually omit everything besides the database name: postgresql:///indico

If the database requires authentication and/or runs on a separate host, this form should be used: postgresql://user:password@hostname/dbname

SQLALCHEMY_POOL_SIZE

This setting configures SQLAlchemy's connection pool. For details, check the Flask-SQLAlchemy documentation.

Default: 5

SQLALCHEMY POOL RECYCLE

This setting configures SQLAlchemy's connection pool. For details, check the Flask-SQLAlchemy documentation.

Default: 120

SQLALCHEMY POOL TIMEOUT

This setting configures SQLAlchemy's connection pool. For details, check the Flask-SQLAlchemy documentation.

Default: 10

Development

Warning: Do not turn on development settings in production. While we are not aware of serious security issues caused by these settings, they may slow down Indico or remove redundancies and thus make Indico not as stable as one would expect it to be in a production environment.

DEBUG

Enables debugging mode. If enabled, assets are not minified, error messages are more verbose and various other features are configured in a developer-friendly way.

Do not enable debug mode in production.

Default: False

DB_LOG

Enables real-time database query logging. When enabled, all database queries are sent to a socket where they can be read by the db_log.py script. To use the database logger, run bin/utils/db_log.py (only available when running Indico from a Git clone) in a separate terminal and all requests and verbose queries will be displayed there.

Default: False

PROFILE

Enables the Python profiler. The profiler output is stored in <TEMP_DIR>/*.prof.

Default: False

SMTP USE CELERY

If disabled, emails will be sent immediately instead of being handed to a Celery background worker. This is often more convenient during development as you do not need to run a Celery worker while still receiving emails sent from Indico. Disabling it may result in emails not being sent if the mail server is unavailable or some other failure happens during email sending. Because of this, the setting should never be disabled in a production environment.

Default: True

COMMUNITY_HUB_URL

The URL of the community hub. This should only be changed when using a local instance of Mereswine to debug the interface between Indico and Mereswine.

Default: 'https://hub.getindico.io'

SYSTEM NOTICES URL

The URL of a YAML file with system notices. This should only be changed during development (to test custom notices) or set to None to opt-out from ever fetching or displaying system notices.

Default: 'https://getindico.io/notices.yml'

DISABLE CELERY CHECK

Disables the warning about Celery not running or being outdated. When set to None, the warning is disabled when *DEBUG* is enabled; otherwise this setting enables/disables the warning regardless of debug mode.

Default: None

Directories

CACHE DIR

The directory in which various data is cached temporarily. Must be accessible by the web server.

Default: '/opt/indico/cache'

LOG DIR

The directory in which log files are stored. Can be overridden by using absolute paths in logging.yaml.

Default: '/opt/indico/log'

TEMP_DIR

The directory in which various temporary files are stored. Must be accessible by the web server.

Default: '/opt/indico/cache'

Emails

SMTP SERVER

The hostname and port of the SMTP server used for sending emails.

Default: ('localhost', 25)

SMTP LOGIN

The username to send if the SMTP server requires authentication.

Default: None

SMTP_PASSWORD

The password to send if the SMTP server requires authentication.

Default: None

SMTP_USE_TLS

If enabled, STARTTLS will be used to use an encrypted SMTP connection.

Default: False

SMTP_TIMEOUT

The timeout in seconds after which a connection attempt to the SMTP server is aborted.

Default: 30

NO REPLY EMAIL

The email address used when sending emails to users to which they should not reply.

Default: None

PUBLIC_SUPPORT_EMAIL

The email address that is shown to users on the "Contact" page.

Default: None

SUPPORT EMAIL

The email address of the technical manager of the Indico instance. Emails about unhandled errors/exceptions are sent to this address.

Default: None

Experimental Features

EXPERIMENTAL EDITING SERVICE

If enabled, event managers can connect the Editing module of their events to an external microservice extending the normal Editing workflow. As long as this is considered experimental, there are no guarantees on backwards compatibility even in minor Indico version bumps. Please check the reference implementation for details/changes.

Default: False

LaTeX

XELATEX PATH

The full path to the xelatex program of TeXLive.

If it is installed in a directory in your \$PATH, specifying its name without a path is sufficient.

If the path is not configured, any functionality that requires LaTeX on the server (such as generating the Book of Abstracts or exporting contributions to PDF) will be disabled.

Default: None

STRICT LATEX

Enables strict mode for LaTeX rendering, in which case a non-zero status code is considered failure.

LaTeX is rather generous when it comes to using a non-zero exit code. For example, having an oversized image in an abstract is enough to cause one. It is generally not a good idea to enable strict mode as this will result in PDF generation to fail instead of creating a PDF that looks slightly uglier (e.g. a truncated image) than one that would succeed without a non-zero status code.

Default: False

Logging

LOGGING_CONFIG_FILE

The path to the logging config file. Unless an absolute path is specified, the path is relative to the location of the Indico config file after resolving symlinks.

Default: 'logging.yaml'

SENTRY DSN

If you use Sentry for logging warnings/errors, you can specify the connection string here.

Default: None

SENTRY LOGGING LEVEL

The minimum level a log record needs to have to be sent to Sentry. If you do not care about warnings, set this to 'ERROR'.

Default: 'WARNING'

Security

SECRET_KEY

The secret key used to sign tokens in URLs. It must be kept secret under all circumstances.

When using Indico on a cluster of more than one worker, all machines need to have the same secret key.

The initial key is generated by the setup wizard, but if you have to regenerate it, the best way of doing so is running this snippet on a shell: python -c 'import os; print repr(os.urandom(32))'

Default: None

SESSION LIFETIME

The duration of inactivity after which a session and its session cookie expires. If set to 0, the session cookie will be cleared when the browser is closed.

Default: 86400 * 31

Storage

STORAGE BACKENDS

The list of backends that can be used to store/retrieve files.

Indico needs to store various files such as event attachments somewhere. By default only a filesystem based storage backend is available, but plugins could add additional backends. You can define multiple backends, but once a backend has been used, you **MUST NOT** remove it or all files stored in that backend will become unavailable.

To define a filesystem-based backend, use the string fs:/base/path. If you stopped using a backend, you can switch it to read-only mode by using fs-readonly: instead of fs:

Other backends may accept different options - see the documentation of these backends for details.

Default: {'default': 'fs:/opt/indico/archive'}

ATTACHMENT STORAGE

The name of the storage backend used to store all kinds of attachments. Anything in this backend is write-once, i.e. once stored, files in it are never modified or deleted.

Changing this only affects new uploads; existing files are taken from the backend that was active when they were uploaded – which is also why you must not remove a backend from STORAGE_BACKENDS once it has been used.

Default: 'default'

STATIC_SITE_STORAGE

The name of the storage backend used to store "offline copies" of events. Files are written to this backend when generating an offline copy and deleted after a certain amount of time.

If not set, the ATTACHMENT_STORAGE backend is used.

Default: None

System

BASE URL

This is the URL through which Indico is accessed by users. For production systems this should be an https://URL and your web server should redirect all plain HTTP requests to HTTPs.

Default: None

USE PROXY

This setting controls whether Indico runs behind a proxy or load balancer and should honor headers such as X-Forwarded-For to get the real IP address of the users accessing it.

The headers taken into account are:

• X-Forwarded-For - the IP address of the user

- X-Forwarded-Proto the protocol used by the user
- X-Forwarded-Host the hostname as specified in BASE_URL (can be omitted if the Host header is correct)

Warning: This setting **MUST NOT** be enabled if the server is accessible directly by untrusted clients without going through the proxy or users will be able to spoof their IP address by sending a custom X-Forwarded-For header. You need to configure your firewall so only requests coming from your proxy or load balancer are allowed.

Default: False

ROUTE OLD URLS

If you migrated from an older Indico version (v1.x), enable this option to redirect from the legacy URLs so external links keep working.

Default: False

STATIC_FILE_METHOD

This setting controls how static files (like attachments) are sent to clients.

Web servers are very good at doing this; much better and more efficient than Indico or the WSGI container, so this should be offloaded to your web server using this setting.

When using Apache with mod_xsendfile or lighttpd, set this to 'xsendfile' and of course enable xsendfile in your Apache config.

When using nginx, set this to ('xaccelredirect', {'/opt/indico': '/.xsf/indico'}) and add an internal location handler to your nginx config to serve /opt/indico via /.xsf/indico:

```
location /.xsf/indico/ {
  internal;
  alias /opt/indico/;
}
```

The *production installation instructions* already configure this properly, so if you installed Indico using our guide, you only need to change this setting if you add e.g. a new storage backend in STORAGE_BACKENDS that stores the files outside /opt/indico.

Default: None

MAX UPLOAD FILE SIZE

The maximum size of an uploaded file (in MB). A value of 0 disables the limit.

This limit is only enforced on the client side. For a hard limit that is enforced on the server, see <code>MAX_UPLOAD_FILES_TOTAL_SIZE</code>

Default: 0

MAX UPLOAD FILES TOTAL SIZE

The maximum size (in MB) of all files uploaded in a single request (or to be more exact, any data contained in the body of a single request).

A value of 0 disables the limit, but most web servers also have limits which need to be configured as well (client_max_body_size in nginx) to allow very large uploads.

Default: 0

DEFAULT LOCALE

The locale that is used by default for i18n. Valid values are en GB, fr FR, and es ES.

Default: 'en_GB'

DEFAULT TIMEZONE

The timezone that is used by default. Any timezone identifier such as Europe/Zurich or US/Central can be used.

Default: 'UTC'

ENABLE ROOMBOOKING

Whether to enable the room booking system.

Default: False

PLUGINS

The list of *Indico plugins* to enable.

A list of all installed plugins can be displayed by the indico setup list-plugins command; see the guide linked above for details on how to enable plugins.

Default: set()

CATEGORY CLEANUP

This setting specifies categories where events are automatically deleted a certain amount of days after they have been created.

For each entry, the key is the category id and the value the days after which an event is deleted.

Warning: This feature is mostly intended for "Sandbox" categories where users test Indico features. Since it is common for such categories to be used for real events nonetheless, we recommend enabling the "Event Header" in the category settings and clearly mention that the event will be deleted after a while.

Default: {}

WORKER_NAME

The name of the machine running Indico. The default value is usually fine unless your servers have ugly (e.g. auto-generated) hostnames and you prefer nicer names to show up in error emails.

Default: socket.getfqdn()

2.1.2 Authentication

Indico uses Flask-Multipass to handle authentication, searching for users in an external database, and externally managed groups. This means any Flask-Multipass authentication/identity provider can be used in Indico without any modifications to Indico itself.

For a description of the basic settings regarding local accounts (managed within Indico itself), see the *general indico config documentation*. This guide focuses solely on advanced authentication methods and how to configure them in Indico.

Configuration

Authentication providers

Authentication providers handle the login process, i.e. asking for user credentials or redirecting to an external site in case of SSO.

The AUTH_PROVIDERS setting is Indico's equivalent to the MULTIPASS_AUTH_PROVIDERS setting of Flask-Multipass.

It must be set to a dict mapping a unique (internal) name of the auth provider (e.g. mycompany-ldap) to a dict of whatever data is needed for the given provider.

The following keys are available in the provider data:

- type **Required.** The type of the provider. Valid values are e.g. ldap, authlib, shibboleth, and whatever custom providers you have installed.
- title The title of the provider (shown on the login page). If omitted, the provider name is used.
- default Must be set to True for exactly one form-based provider in case more than one such provider is used. The login form of the default provider is displayed when opening the login page so it should be the provider that most people use.
- Any provider-specific settings.

Identity providers

Identity providers get data about a user who logged in (based on the information passed on by the authentication provider) and also handle searching of external users and groups.

The *IDENTITY_PROVIDERS* setting is Indico's equivalent to the MULTIPASS_IDENTITY_PROVIDERS setting of Flask-Multipass.

It must be set to a dict mapping a unique (internal) name of the identity provider (e.g. mycompany-ldap) to a dict of whatever data is needed for the given provider. Note that once an identity provider has been used, its name must not be changed.

The following keys are available in the provider data:

- type **Required.** The type of the provider. Valid values are e.g. ldap, authlib, shibboleth, and whatever custom providers you have installed.
- title The title of the provider (shown in the account list of the user profile). If omitted, the provider name is used.
- trusted_email Set this to True if all email addresses received from the provider are trustworthy, i.e. if it is guaranteed that an email address actually belongs to the user (either because it's coming from a trusted employee database or the provider is known to send verification emails). If an email is trusted, Indico will use it immediately to start the signup process or associate an existing account with a matching email address. Otherwise a verification email is sent to prove that the user has access to the email address, which is less user-friendly but extremely important to prevent malicious takeovers of Indico accounts.
- moderated Set this to True if you want to require manual approval of the registration by an Indico admin. This results in the same workflow as LOCAL_MODERATION in case of local accounts.
- synced_fields This may be set in no more than once identity provider and enables user data synchronization. Its value should be a set of user attributes that can be synchronized during login. The following attributes can be synchronized: email, first_name, last_name, affiliation, phone, address Due to the unique nature of email addresses, synchronizing them may fail; in that case a warning is displayed and the old email address remains an Indico admin could merge the users if they are indeed the same person, but this needs to be done manually since merging users is a potentially destructive operation that cannot be undone. It is also strongly recommended to ONLY sync emails if the provider has validated emails (ie trusted_email set to True); otherwise users would get unvalidated (possibly even invalid) emails set on their account during sync.

• mapping — A dictionary that maps between keys given by the identity provider and keys expected by Indico for user information. The key of each entry is the Indico-side attribute name; the value is the key under which the data is exposed by the provider. Indico can take user information from the following keys: first_name, last_name, email, affiliation, phone, address. For example, this mapping would use the givenName provided by the identity provider to populate the user's first_name in Indico:

```
'mapping': {'first_name': 'givenName'}
```

- identity_info_keys By default, all six attributes listed above will be used if the provider has them (either directly or in some other field specified in the mapping). If you want to restrict the data from a provider (e.g. because the value it provides is known to be useless/incorrect), you can set this to a set containing only the attributes you want to use. Note that external user search requires email addresses, so if you exclude email addresses here, users from this provider will never appear in search results.
- Any provider-specific settings.

Links between providers

By default, authentication and identity providers with the same name are linked together. If this is not what you want, you can use the <code>PROVIDER_MAP</code> setting to manually link providers. This is useful for advanced cases where you have e.g. both a login form to enter LDAP credentials and a SSO provider, but want to have a single LDAP identity provider that can use the username from either SSO or the LDAP login. In this case you would link both authentication providers to the same identity provider.

Specific providers

LDAP

The ldap authentication/identity providers are available by default, but to use them you need to install the python-ldap library using pip install python-ldap.

Note: python-ldap has some extra system dependencies (openldap and libsasl). How to install them (apt, yum, etc.) depends on your linux distribution. The package names are usually libsasl2-dev or libsasl-dev and openldap-dev (or -devel on some distros). If one of these libraries is missing, pip will fail when installing python-ldap. Simply re-run the command after installing the missing library.

Once everything is installed, you can add the LDAP-related settings to your indico.conf. Below is an example based on the LDAP config we use at CERN with Active Directory; you can copy this as a starting point for your own config and then adapt it to your own environment:

```
_ldap_config = {
    'uri': 'ldaps://...',
    'bind_dn': 'cn=***,OU=Users,OU=Organic Units,DC=cern,DC=ch',
    'bind_password': '***',
    'timeout': 30,
    'verify_cert': True,
    'page_size': 1500,

'uid': 'cn',
    'user_base': 'DC=cern,DC=ch',
    'user_filter': '(objectCategory=user)',
```

(continues on next page)

(continued from previous page)

```
'gid': 'cn',
    'group_base': 'OU=Workgroups, DC=cern, DC=ch',
    'group_filter': '(objectCategory=group)',
    'member_of_attr': 'memberOf',
    'ad_group_style': True
AUTH_PROVIDERS = {
    'ldap': {
        'type': 'ldap',
        'title': 'LDAP',
        'ldap': _ldap_config,
        'default': True
    }
}
IDENTITY_PROVIDERS = {
    'ldap': {
        'type': 'ldap',
        'title': 'LDAP',
        'ldap': _ldap_config,
        'mapping': {
            'first_name': 'givenName',
            'last_name': 'sn',
            'email': 'mail',
            'affiliation': 'company',
            'phone': 'telephoneNumber'
        },
        'trusted_email': True,
        'synced_fields': {'first_name', 'last_name', 'affiliation', 'phone', 'address
→ ' }
    }
```

The LDAP-specific config uses the following keys:

- uri **Required.** The URI referring to the LDAP server including the protocol and the port. Use ldaps:// for LDAP over SSL/TLS and ldap:// with the starttls option for a plain LDAP connection with TLS negotiation. The port can be omitted if the LDAP server listens on the default port (636 for LDAP over SSL and 389 for a plain LDAP connection with TLS negotiation).
- bind_dn Required. The distinguished name to bind to the LDAP directory.
- bind_password Required. The password to use together with the bind_dn to login to the LDAP server.
- timeout The delay in seconds to wait for a reply from the LDAP server (set to -1 to disable). Default: 30
- verify_cert Whether to verify the TLS certificate of the LDAP server. Default: True
- starttls Whether to use STARTTLS to switch to an encrypted connection. Ignored with an ldaps://URI. Default: False
- page_size The limit of entries to retrieve at once for a search. 0 means no size limit. It is recommended to have at most the size limit imposed by the server. Default: 1000
- uid The attribute whose value is used as an identifier for the user (typically the username). This attribute must be a single-valued attribute whose value is unique for each user. If the attribute is multi-valued, only the first one retrieved will be returned. Default: 'uid'

- user_base **Required.** The base node for all the nodes which might contain a user.
- user_filter A valid LDAP filter which will select exclusively all users in the subtree from the user_base. The combination of the user_base and the user_filter must match exclusively all the users. Default: '(objectClass=person)'
- gid The attribute whose value is used as an identifier for the group (typically the group's name). This attribute must be a single-valued attribute whose value is unique for each group. If the attribute is multi-valued, only the first one retrieved will be returned. Default: 'cn'
- group_base **Required.** The base node for all the nodes which might contain a group.
- group_filter A valid LDAP filter which will select exclusively all groups in the subtree from the group_base. The combination of the group_base and the group_filter must match exclusively all the groups. Default: '(objectClass=groupOfNames)'
- member_of_attr The multi-valued attribute of a user containing the list of groups the user is a member of. Default: 'memberOf'

Note: In case of SLAPD/OpenLDAP, the *member of* attribute must be enabled. While it is not enabled by default, the majority of servers will have it enabled. A simple ldapsearch for a user member of any group should show if that is the case. If not, you can check this article on information how to enable it on your LDAP server. Note that unless you manage the LDAP server, you need to ask the administrator of that server to do that.

ad_group_style - Whether the server uses Active-Directory-style groups or not. This is only used when
checking if a user is a member of a group. If enabled, the code will take advantage of the tokenGroups
attribute of a user to check for nested group membership. Otherwise, it will only look through the values of the
member_of_attr, which should also work for Active Directory, but only for direct membership. Default:
False

SAML

The saml authentication/identity providers are available by default, but to use them you need to install the python3-saml library using pip install python3-saml.

Note: python3-saml has some extra system dependencies (xmlsec). How to install them (apt, yum, etc.) depends on your linux distribution. The package name is usually libxmlsec1-dev (or xmlsec1-devel on RPM-based distros). If this library is missing, pip will fail when installing python3-saml. Simply re-run the command after installing the missing library.

Once everything is installed, you can add the SAML-related settings to your indico.conf. Below is an example you can copy to have a good starting point for your own config and then adapt it to your own environment:

```
_saml_config = {
    'sp': {
        'entityId': 'indico-saml',
        # Depending on your security config below you may need to generate
        # a certificate and private key.
        # You can use https://www.samltool.com/self_signed_certs.php or
        # use openssl for it (which is more secure as it ensures the
        # key never leaves your machine)
        'x509cert': '',
        'privateKey': '',
    },
```

(continues on next page)

(continued from previous page)

```
'idp': {
        # This metadata is provided by your SAML IdP. You can omit (or
        # leave empty) the whole 'idp' section in case you need SP
        # metadata to register your app and get the IdP metadata from
        # https://indico.example.com/multipass/saml/{auth-provider-name}/metadata
        # and then fill in the IdP metadata afterwards.
        'entityId': 'https://my-idp.example.com',
        'singleSignOnService': {
            'url': 'https://my-idp.example.com/saml',
            'binding': 'urn:oasis:names:tc:SAML:2.0:bindings:HTTP-Redirect'
        'singleLogoutService': {
            'url': 'https://my-idp.example.com/saml',
            'binding': 'urn:oasis:names:tc:SAML:2.0:bindings:HTTP-Redirect'
        'x509cert': ''
    },
    # These advanced settings allow you to tune the SAML security options.
    # Please see the documentation on https://github.com/onelogin/python3-saml
    # for details on how they behave. Note that by requiring signatures,
    # you usually need to set a cert and key on your SP config.
    'security': {
        'nameIdEncrypted': False,
        'authnRequestsSigned': True,
        'logoutRequestSigned': True,
        'logoutResponseSigned': True,
        'signMetadata': True,
        'wantMessagesSigned': True,
        'wantAssertionsSigned': True,
        'wantNameId' : True,
        'wantNameIdEncrypted': False,
        'wantAssertionsEncrypted': False,
        'allowSingleLabelDomains': False,
        'signatureAlgorithm': 'http://www.w3.org/2001/04/xmldsig-more#rsa-sha256',
        'digestAlgorithm': 'http://www.w3.org/2001/04/xmlenc#sha256'
    }
}
AUTH_PROVIDERS = {
    'saml': {
        'type': 'saml',
        'title': 'SAML SSO'.
        'saml_config': _saml_config,
        # If your IdP is using ADFS you may need to uncomment this. For details, see
        # https://github.com/onelogin/python-saml/pull/144
        # 'lowercase_urlencoding': True
    }
IDENTITY_PROVIDERS = {
    'saml': {
        'type': 'saml',
        'title': 'SSO',
        'mapping': {
            'first name': 'Firstname',
            'last_name': 'Lastname',
            'email': 'EmailAddress',
            'affiliation': 'HomeInstitute',
```

(continues on next page)

(continued from previous page)

```
},
   'trusted_email': True,
   # You can use a different field as the unique identifier.
   # By default the qualified NameID from SAML is used, but in
   # case you want to use something else, any SAML attribute can
   # be used.
   # 'identifier_field': 'Username'
}
```

If you also have an LDAP server, it may be a good idea to use the saml authentication provider and connect it to an ldap identity provider. This way the user information is retrieved from LDAP based on a unique identifier of the user that comes from SAML, and you can still use the search and group functionality provided by LDAP.

To use this, use the AUTH_PROVIDERS config from above together with the IDENTITY_PROVIDERS config from the LDAP section on this page, and set up a PROVIDER_MAP that passes the identifier from SAML to LDAP. The example below assumes that the LDAP username is passed in a SAML attribute named UPN.

```
PROVIDER_MAP = {
    'saml': {'identity_provider': 'ldap', 'mapping': {'identifier': 'UPN'}},
}
```

Shibboleth

Changed in version 3.0: SAML is now supported without the need for Apache.

Note: Note that since Indico 3.0 there is a new saml auth/identity provider available which does not require Apache/shibd and is thus the recommended option to use regardless of the web server in use.

The shibboleth authentication/identity providers are available by default, but due to how the protocol works you need to use the Apache webserver to use SAML atuhentication provider.

You can find guides on how to set it up for *CentOS* and *Debian*.

If you also have an LDAP server, it may be a good idea to use the shibboleth authentication provider and connect it to an ldap identity provider. This way the user information is retrieved from LDAP based on a unique identifier of the user that comes from SAML, and you can still use the search and group functionality provided by LDAP.

CHAPTER 3

Building

3.1 Building

Before starting Indico compilation, this guide assumes you've previously setup the development base up until the configuring step.

Warning: We do not recommend doing these steps on the same system where you are running your production version, as you run into the risk of mixing the latter with development resources.

Note: The master branch on Git is usually the next version under (heavy) development. Check if there is a 3.*.x branch for your version and if yes, use that branch instead of master.

The first step is to generate a local distribution archive. Navigate to the Indico source folder (by default, it is ~/dev/indico/src) and run the following command:

./bin/maintenance/build-wheel.py indico --add-version-suffix

Note: The build script refuses to run on a dirty git working directory, so any changes you decide to include must be committed temporarily. You can use git checkout --detach to avoid committing to your local master branch; if you plan to actually use the translation the better option would be of course to create a real Git branch.

Warning: Make sure you're also not running any other build tool such as build-assets.py, as it may interfere with the creation of a production build when running in --watch mode.

Finally, the dist folder will contain the wheel distribution, the file you should to copy to your production machine:

```
dist/
indico-2.3.1.dev0+202009231923.a14a24f564-py2-none-any.whl
```

To deploy this distribution, you should follow the *production installation guide*, but instead of installing Indico from PyPI (pip install indico), install your custom-built wheel from the previous step:

```
pip install /tmp/indico-2.3.1.dev0+202009231923.a14a24f564-py2-none-any.whl
```

If you already have Indico installed, then simply installing the version from the wheel and restarting uwsgi and indicocelery is all you need to do.

3.1.1 Including a new translation

If you are including a new translation, you should also include the moment-js locale in indico/web/client/js/jquery/index.js before building:

```
// moment.js locales
import 'moment/locale/your-locale';
import 'moment/locale/zh-cn';
import 'moment/locale/es';
import 'moment/locale/fr';
import 'moment/locale/en-gb';
```

Note: Put your custom locale first, since en-gb needs to be the last one as a fallback.

CHAPTER 4

Search

4.1 Search

Indico's version 3.0 introduced a brand new reusable and backend-agnostic search module backed up by the SQL storage by default. This module can however be decomposed into a single provider, supporting any external service through a plugin.

Indico provides multiple options for a search service, such as:

- The default SQL based search.
- A performant and feature-rich ElasticSearch-based search service, Citadel which can be integrated with Indico easily using the official Citadel plugin.
- · Any external search service, as long as you implement a plugin interface according to the specification below.

4.1.1 Internal Search

The Internal Search is a default SQL based engine implementation, created to support the most basic queries. While not as fast and less feature rich (no filters or aggregations) compared to specialized search engines, this search engine provides a decent option for smaller Indico instances which may not want to spend additional time on deploying a separate service just for search.

It supports the two types of records from a total of six targets:

- Events
- Categories
- · Contributions
- Attachments
- Notes

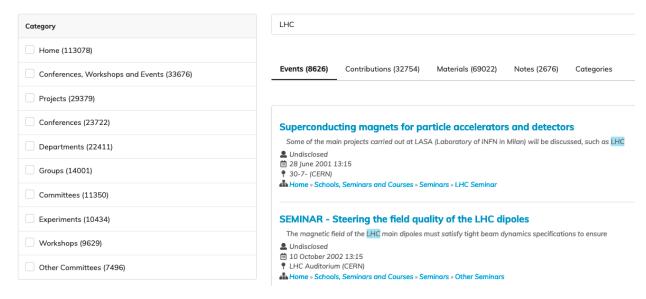
Note: The Internal Search only supports text-based search on titles, description and notes content.

4.1.2 External Search Service

Indico provides several powerful features for aggregation and filtering when combined with an external search service supporting them, such as Citadel.

Aggregations

Aggregations, as seen in Elastic Search, provide a way to combine information in groups according to a certain metric, such as a field value, sum or average.



Indico supports any bucket or metric group, composed of a key, count and filter key:

```
class indico.modules.search.result_schemas.AggregationSchema
```

 $Bases: \verb|indico.modules.search.result_schemas._ResultSchemaBase|\\$

Represents an aggregation list.

buckets = None

A bucket list representing each group.

label = None

The name of the aggregation.

```
class indico.modules.search.result_schemas.BucketSchema
```

Bases: indico.modules.search.result_schemas._ResultSchemaBase

Represents an individual aggregation bucket element.

count = None

The number of elements.

filter = None

The key that identifies the element's filter.

68 Chapter 4. Search

key = None

The aggregation key.

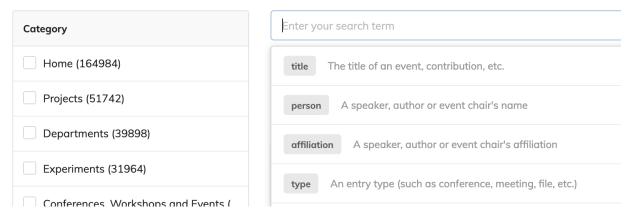
Filters

Filters act combined upon a certain aggregation on structured data. Consider the following bucket group composed of a single affiliation:

The combination of *key* and *filter* from AggregationSchema can be used as a way to define a human-readable label to an attribute. A corresponding filter acting upon the same key in the example above would be affiliation=cern.

Placeholders

Placeholders are a special type of filters specifically designed to be part of the user-facing text based search query. Examples of valid placeholders would be: *affiliation:CERN* or *person:"John Doe"*.



Indico expects to receive a list of valid placeholders through get_placeholders () where each one will be merely hinted to the user while doing a text based search.

 $\begin{tabular}{ll} \textbf{class} & \verb"indico.modules.search." base. \textbf{IndicoSearchProvider} \\ & Bases: \verb"object" \\ \end{tabular}$

get_placeholders()

Retrieve the list of search shortcuts that will be shown to users when typing a search query.

Returns a list of SearchOption instances

4.1. Search 69

subcontribution = 4

4.1.3 API Reference

```
The IndicoSearchProvider interface allows an external service to integrate with Indico's search module.
class indico.modules.search.base.IndicoSearchProvider
     Bases: object
     RESULTS PER PAGE = 10
          The number of results to show per page.
     active = True
     get_placeholders()
         Retrieve the list of search shortcuts that will be shown to users when typing a search query.
             Returns a list of SearchOption instances
     get_sort_options()
          Retrieve the list of search sortable options.
             Returns a list of SearchOption instances
     search (query, user=None, page=None, object_types=(), *, admin_override_enabled=False,
              **params)
          Search using a custom service across multiple targets.
             Parameters
                 • query - Keyword based query string
                 • user – The user performing the search (for access checks)
                 • page – The result page to show
                 • object_types - A filter for a specific SearchTarget
                 • admin_override_enabled - Whether to ignore access restrictions
                 • params – Any additional search params such as filters
             Returns a dict with the ResultSchema structure
class indico.modules.search.base.SearchOption(key: str, label: str)
     Bases: object
class indico.modules.search.base.SearchOptions (placeholders: list, sort_options: list)
     Bases: object
     dump()
class indico.modules.search.base.SearchTarget
     Bases: int, indico.util.enum.IndicoEnum
     An enumeration.
     attachment = 6
     category = 1
     contribution = 3
     event = 2
     event note = 5
```

70 Chapter 4. Search

indico.modules.search.base.get_search_provider(only_active=True)
Get the search provider to use for a search.

Parameters only_active – Whether to check that the provider is active; in case it isn't, the default InternalSearch provider will be used.

Models

class indico.modules.search.result_schemas.ResultSchemaBase
 Bases: indico.modules.search.result_schemas._ResultSchemaBase

category_path = None

The parent category chain

description = None

The event description

end dt = None

The event end date time

event id = None

The event id

event type = None

The event type

highlight = None

The event content to highlight

location = None

The event location

persons = None

The event associated persons

start_dt = None

The event start date time

title = None

The event title

type = None

The record type

class indico.modules.search.result_schemas.ContributionResultSchema

 $Bases: \verb|indico.modules.search.result_schemas.ResultSchemaBase|$

contribution_id = None

The contribution id

description = None

The contribution description

duration = None

The contribution duration

end dt = None

The contribution end date time

4.1. Search 71

event id = None

The contribution event id

highlight = None

The contribution content to highlight

location = None

The contribution location

persons = None

The contribution associated persons

start_dt = None

The contribution start date time

title = None

The contribution title

type = None

The record type

class indico.modules.search.result schemas.SubContributionResultSchema

 $Bases: indico.modules.search.result_schemas.ContributionResultSchema$

subcontribution_id = None

The sub-contribution id

type = None

The record type

class indico.modules.search.result_schemas.AttachmentResultSchema

 $Bases: \verb|indico.modules.search.result_schemas.ResultSchemaBase|\\$

attachment_id = None

The attachment id

attachment_type = None

The attachment type

contribution_id = None

The attachment contribution id

event_id = None

The attachment event id

filename = None

The attachment filename

folder id = None

The attachment folder id

modified_dt = None

The attachment last modified date time

subcontribution_id = None

The attachment sub-contribution id

title = None

The attachment title

type = None

The record type

72 Chapter 4. Search

user = None The attachment author class indico.modules.search.result_schemas.EventNoteResultSchema Bases: indico.modules.search.result_schemas.ResultSchemaBase content = None The note content contribution id = None The note contribution id event id = None The note event id highlight = None The note content to highlight modified_dt = None The note last modification date time note id = None The note id subcontribution_id = None The note sub-contribution id title = None The note title type = None The record type user = None The note author class indico.modules.search.result_schemas.PersonSchema Bases: indico.modules.search.result_schemas._ResultSchemaBase affiliation = None The person's affiliation name = None The person's name class indico.modules.search.result_schemas.LocationResultSchema Bases: indico.core.marshmallow.IndicoSchema address = None The address room name = None

class indico.modules.search.result_schemas.HighlightSchema
 Bases: indico.modules.search.result_schemas._ResultSchemaBase

content = None

The room name

venue_name = None

The venue name

The field's content to highlight

4.1. Search 73

description = None

The field's description to highlight

74 Chapter 4. Search

Plugins

Indico can be extended through plugins, standalone packages of code that do not require any modifications to the Indico core itself. A plugin can perform something very simple such as adding a new command to the Indico CLI to more complex functionalities like introducing new payment methods, chat integration, etc.

We suggest that you first have a look at *Getting started* and then head over to the more advance topics in the table of contents.

5.1 Extending Indico with plugins

Indico can be extended through plugins, standalone packages of code that do not require any modifications to the Indico core itself. A plugin can perform something very simple such as adding a new command to the Indico CLI to more complex functionalities like introducing new payment methods, chat integration, etc.

We suggest that you first have a look at *Getting started* and then head over to the more advance topics in the table of contents.

5.1.1 Getting started with Indico plugins

Todo: Write a **REAL**, simple example of a plugin. Include link to Github repo.

Example plugin

The following is a minimal plugin that makes use of all capababilites of the plugin API. The **display name** of the plugin is defined by the first line of the docstring and the **description** by the rest of it. The plugin may override signal handlers to hook into Indico and aditionally run any initialization needed. For example, it will add some command to Indico CLI, extend the shell context and register some assets. Also, *init* is used to inject CSS and JS bundles outside of the plugin scope.

```
class ExamplePlugin(IndicoPlugin):
    """Example Plugin
   An example plugin that demonstrates the capabilities of the new Indico plugin
\hookrightarrow system.
   settings_form = SettingsForm
   def init(self):
        super(ExamplePlugin, self).init()
        self.inject_bundle('main.js')
    def get_blueprints(self):
        return blueprint
    def add_cli_command(self, manager):
        @manager.command
        @with_plugin_context(self)
        def example():
            """Example command from example plugin"""
            print 'example plugin says hi', current_plugin
            if self.settings.get('show_message'):
                print self.settings.get('dummy_message')
   def extend_shell_context(self, add_to_context):
        add_to_context('bar', name='foo', doc='foobar from example plugin', color=
→ 'magenta!')
```

The plugin can specify its settings via a IndicoForm:

```
class SettingsForm(IndicoForm):
    dummy_message = StringField('Dummy Message')
    show_message = BooleanField('Show Message')
```

The plugin can also specify request handlers and templates. Templates will be loaded from a *templates* folder within your plugin folder. Your plugin can even load templates from other modules by prefixing the name of the template 'other_plugin:example' with render_template().

```
class WPExample(WPDecorated):
    def _get_body(self, params):
        return render_plugin_template('example.html', **params)

class RHExample(RH):
    def _process(self):
        return WPExample(self, foo=u'bar').display()

class RHTest(RH):
    def _process(self):
        return render_plugin_template('test.html')

blueprint = IndicoPluginBlueprint('example', __name__)
blueprint.add_url_rule('/example', 'example', view_func=RHExample)
blueprint.add_url_rule('/example/x', 'example', view_func=RHExample)
```

(continued from previous page)

```
blueprint.add_url_rule('/test', 'test', view_func=RHTest)
```

5.1.2 Plugin API reference

Indico's plugin system allows you to extend indico with additional modules which can be installed separately and do not require any modifications to the indico core itself.

```
class indico.core.plugins.IndicoPlugin(plugin_engine, app)
    Bases: flask_pluginengine.plugin.Plugin
```

Base class for an Indico plugin.

All your plugins need to inherit from this class. It extends the *Plugin* class from Flask-PluginEngine with useful indico-specific functionality that makes it easier to write custom plugins.

When creating your plugin, the class-level docstring is used to generate the friendly name and description of a plugin. Its first line becomes the name while everything else goes into the description.

This class provides methods for some of the more common hooks Indico provides. Additional signals are defined in signals and can be connected to custom functions using connect ().

```
acl_event_settings = frozenset()
```

A set containing the names of event-specific settings which store ACLs

```
acl_settings = frozenset()
```

A set containing the names of settings which store ACLs

```
category = None
```

The group category that the plugin belongs to

```
configurable = False
```

If the plugin should link to a details/config page in the admin interface

```
default event settings = {}
```

A dictionary containing default values for event-specific settings

```
default_settings = {}
```

A dictionary containing default values for settings

```
default_user_settings = {}
```

A dictionary containing default values for user-specific settings

event_settings

classmethod(function) -> method

Convert a function to be a class method.

A class method receives the class as implicit first argument, just like an instance method receives the instance. To declare a class method, use this idiom:

```
class C: @classmethod def f(cls, arg1, arg2, ...):
```

It can be called either on the class (e.g. C.f()) or on an instance (e.g. C().f()). The instance is ignored except for its class. If a class method is called for a derived class, the derived class object is passed as the implied first argument.

Class methods are different than C++ or Java static methods. If you want those, see the staticmethod builtin.

event settings converters = {}

A dict containing custom converters for event-specific settings

get_blueprints()

Return blueprints to be registered on the application.

A single blueprint can be returned directly, for multiple blueprint you need to yield them or return an iterable.

qet vars js()

Return a dictionary with variables to be added to vars.js file.

init()

Called when the plugin is being loaded/initialized.

If you want to run custom initialization code, this is the method to override. Make sure to call the base method or the other overridable methods in this class will not be called anymore.

inject_bundle (name, view_class=None, subclasses=True, condition=None)

Inject an asset bundle into Indico's pages.

Parameters

- name Name of the bundle
- view_class If a WP class is specified, only inject it into pages using that class
- subclasses also inject into subclasses of view_class
- **condition** a callable to determine whether to inject or not. only called, when the view class criterion matches

inject_vars_js()

Return a string that will define variables for the plugin in the vars.js file.

settings

classmethod(function) -> method

Convert a function to be a class method.

A class method receives the class as implicit first argument, just like an instance method receives the instance. To declare a class method, use this idiom:

```
class C: @classmethod def f(cls, arg1, arg2, ...):
```

It can be called either on the class (e.g. C.f()) or on an instance (e.g. C().f()). The instance is ignored except for its class. If a class method is called for a derived class, the derived class object is passed as the implied first argument.

Class methods are different than C++ or Java static methods. If you want those, see the staticmethod builtin.

settings_converters = {}

A dict containing custom converters for settings

settings_form = None

WTForm for the plugin's settings (requires *configurable=True*). All fields must return JSON-serializable types.

settings_form_field_opts = {}

A dictionary which can contain the kwargs for a specific field in the *settings_form*.

78 Chapter 5. Plugins

strict settings = True

If settings, event_settings and user_settings should use strict mode, i.e. only allow keys in default_settings, default_event_settings or default_user_settings (or the related acl_settings sets). This should not be disabled in most cases; if you need to store arbitrary keys, consider storing a dict inside a single top-level setting.

template_hook (name, receiver, priority=50, markup=True)

Register a function to be called when a template hook is invoked.

For details see register_template_hook().

translation_domain

Return the domain for this plugin's translation_path.

translation_path

Return translation files to be used by the plugin.

By default, get <root_path>/translations, unless it does not exist.

user_settings

classmethod(function) -> method

Convert a function to be a class method.

A class method receives the class as implicit first argument, just like an instance method receives the instance. To declare a class method, use this idiom:

```
class C: @classmethod def f(cls, arg1, arg2, ...):
```

It can be called either on the class (e.g. C.f()) or on an instance (e.g. C().f()). The instance is ignored except for its class. If a class method is called for a derived class, the derived class object is passed as the implied first argument.

Class methods are different than C++ or Java static methods. If you want those, see the staticmethod builtin.

user_settings_converters = {}

A dict containing custom converters for user-specific settings

```
class indico.core.plugins.IndicoPluginBlueprint(name, *args, **kwargs)
```

 $Bases: \qquad \texttt{flask_pluginengine.mixins.PluginBlueprintMixin}, \qquad \texttt{indico.web.flask.wrappers.IndicoBlueprint}$

The Blueprint class all plugins need to use.

It contains the necessary logic to run the blueprint's view functions inside the correct plugin context and to make the static folder work.

make_setup_state (app, options, first_registration=False)

Creates an instance of BlueprintSetupState() object that is later passed to the register callback functions. Subclasses can override this to return a subclass of the setup state.

```
class indico.core.plugins.IndicoPluginBlueprintSetupState(blueprint: Blueprint,
```

app: Flask, options:
Any, first_registration:
bool)

Bases: flask_pluginengine.mixins.PluginBlueprintSetupStateMixin, indico.web.flask.wrappers.IndicoBlueprintSetupState

```
add_url_rule (rule, endpoint=None, view_func=None, **options)
```

A helper method to register a rule (and optionally a view function) to the application. The endpoint is automatically prefixed with the blueprint's name.

```
class indico.core.plugins.PluginCategory
    Bases: str, indico.util.enum.IndicoEnum
    An enumeration.
class indico.core.plugins.WPJinjaMixinPlugin
    Bases: indico.web.views.WPJinjaMixin
```

static render_template_func (template_name_or_list, **context)

Renders a template from the plugin's template folder with the given context.

If the template name contains a plugin name (pluginname: name), that name is used instead of the current plugin's name.

Parameters

- **template_name_or_list** the name of the template or an iterable containing template names (the first existing template is used)
- **context** the variables that should be available in the context of the template.

```
indico.core.plugins.get_plugin_template_module (template_name, **context)
    Like get_template_module(), but using plugin templates
indico.core.plugins.plugin_url_rule_to_js(endpoint)
    Like url_rule_to_js() but prepending plugin name prefix to the endpoint
indico.core.plugins.url_for_plugin(endpoint, *targets, **values)
    Like url_for() but prepending 'plugin_' to the blueprint name.
```

5.1.3 Hooking into Indico using Signals

Contents

- Hooking into Indico using Signals
 - indico.core.signals
 - * indico.core.signals.acl
 - * indico.core.signals.agreements
 - * indico.core.signals.attachments
 - * indico.core.signals.category
 - * indico.core.signals.core
 - * indico.core.signals.event
 - * indico.core.signals.event management
 - * indico.core.signals.menu
 - * indico.core.signals.plugin
 - * indico.core.signals.rb
 - * indico.core.signals.rh
 - * indico.core.signals.users

80 Chapter 5. Plugins

Signals allow you to hook into certain parts of Indico without adding any code to the core (which is something a plugin can and should not do). Each signal has a *sender* which can be any object (depending on the signal) and possibly some keyword arguments. Some signals also make use of their return value or even require one. Check the documentation of each signal on how it's used.

To avoid breakage with newer versions of Indico, it is highly advised to always accept extra **kwargs in your signal receiver. For example, a receiver function could look like this:

```
def receiver(sender, something, **kwargs):
    do_stuff_with(something)
```

indico.core.signals

indico.core.signals.acl

```
indico.core.signals.acl.can access
```

Called when *ProtectionMixin.can_access* is used to determine if a user can access something or not.

The *sender* is the type of the object that's using the mixin. The actual instance is passed as *obj*. The *user* and *allow_admin* arguments of *can_access* are passed as kwargs with the same name.

The *authorized* argument is None when this signal is called at the beginning of the access check and True or False at the end when regular access rights have already been checked. For expensive checks (such as anything involving database queries) it is recommended to skip the check while *authorized* is None since the regular access check is likely to be cheaper (due to ACLs being preloaded etc).

If the signal returns True or False, the access check succeeds or fails immediately. If multiple subscribers to the signal return contradictory results, False wins and access is denied.

```
indico.core.signals.acl.can_manage
```

Called when ProtectionMixin.can_manage is used to determine if a user can manage something or not.

The *sender* is the type of the object that's using the mixin. The actual instance is passed as *obj*. The *user*, *permission*, *allow_admin*, *check_parent* and *explicit_permission* arguments of *can_manage* are passed as kwargs with the same name.

If the signal returns True or False, the access check succeeds or fails without any further checks. If multiple subscribers to the signal return contradictory results, False wins and access is denied.

```
indico.core.signals.acl.entry_changed
```

Called when an ACL entry is changed.

The *sender* is the type of the object that's using the mixin. The actual instance is passed as *obj*. The *User*, *GroupProxy* or *EmailPrincipal* is passed as *principal* and *entry* contains the actual ACL entry (a *PrincipalMixin* instance) or None in case the entry was deleted. *is_new* is a boolean indicating whether the given principal was in the ACL before. If *quiet* is True, signal handlers should not perform noisy actions such as logging or sending emails related to the change.

If the ACL uses permissions, *old_data* will contain a dictionary of the previous permissions (see *PrincipalPermissionsMixin.current_data*).

```
indico.core.signals.acl.get_management_permissions
```

Expected to return *ManagementPermission* subclasses. The *sender* is the type of the object the permissions may be used for. Functions subscribing to this signal **MUST** check the sender by specifying it using the first argument of *connect_via()* or by comparing it inside the function.

```
\verb|indico.core.signals.acl.protection_changed|\\
```

Called when the protection mode of an object is changed.

The *sender* is the type of the object that's using the mixin. The actual instance is passed as *obj*. The old protection mode is passed as *old_mode*, the new mode as *mode*.

indico.core.signals.agreements

indico.core.signals.agreements.get_definitions

Expected to return a list of AgreementDefinition classes.

indico.core.signals.attachments

indico.core.signals.attachments.attachment_accessed

Called when an attachment is accessed. The *sender* is the *Attachment* that was accessed. The user who accessed the attachment is passed in the *user* kwarg. The *from_preview* kwarg will be set to True if the download link on the preview page was used to access the attachment or if the attachment was loaded to be displayed on the preview page (opening the preview itself already sends this signal with *from_preview=False*).

indico.core.signals.attachments.attachment created

Called when a new attachment is created. The *sender* object is the new *Attachment*. The user who created the attachment is passed in the *user* kwarg.

indico.core.signals.attachments.attachment deleted

Called when an attachment is deleted. The *sender* object is the *Attachment* that was deleted. The user who deleted the attachment is passed in the *user* kwarg.

indico.core.signals.attachments.attachment updated

Called when an attachment is updated. The *sender* is the *Attachment* that was updated. The user who updated the attachment is passed in the *user* kwarg.

indico.core.signals.attachments.folder_created

Called when a new attachment folder is created. The *sender* is the new *AttachmentFolder* object. The user who created the folder is passed in the *user* kwarg. This signal is never triggered for the internal default folder.

indico.core.signals.attachments.folder_deleted

Called when a folder is deleted. The *sender* is the *AttachmentFolder* that was deleted. The user who deleted the folder is passed in the *user* kwarg.

indico.core.signals.attachments.folder_updated

Called when a folder is updated. The *sender* is the *AttachmentFolder* that was updated. The user who updated the folder is passed in the *user* kwarg.

indico.core.signals.attachments.get_file_previewers

Expected to return one or more *Previewer* subclasses.

indico.core.signals.category

```
indico.core.signals.category.created
```

Called when a new category is created. The *sender* is the new category.

```
indico.core.signals.category.deleted
```

Called when a category is deleted. The *sender* is the category.

```
indico.core.signals.category.extra_events
```

Called when a category is displayed. The *sender* is the category. *is_flat* is passed as kwarg with the same name. The additional kwargs passed to this signal depend on the context.

82 Chapter 5. Plugins

indico.core.signals.category.moved

Called when a category is moved into another category. The *sender* is the category and the old parent category is passed in the *old_parent* kwarg.

indico.core.signals.category.updated

Called when a category is modified. The *sender* is the updated category.

indico.core.signals.core

indico.core.signals.core.add_form_fields

Lets you add extra fields to a form. The *sender* is the form class and should always be specified when subscribing to this signal.

The signal handler should return one or more 'name', Field tuples. Each field will be added to the form as ext__<name> and is automatically excluded from the form's *data* property and its *populate_obj* method.

To actually process the data, you can use e.g. the *form_validated* signal and then store it in *flask.g* until another signal informs you that the operation the user was performing has been successful.

indico.core.signals.core.after_commit

Called after an SQL transaction has been committed. Note that the session is in 'committed' state when this signal is called, so no SQL can be emitted while this signal is being handled.

indico.core.signals.core.after_process

Called after an Indico request has been processed. This signal should also be triggered by CLI utilities that result in other signals being triggered.

indico.core.signals.core.app_created

Called when the app has been created. The *sender* is the flask app.

indico.core.signals.core.before_notification_send

Executed before a notification is sent. The *sender* is a string representing the type of notification. The notification email that will be sent is passed in the email kwarg. The additional kwargs passed to this signal depend on the context.

indico.core.signals.core.check_password_secure

Check whether a password is secure. The *sender* is a string indicating the context where the password check happens, the plaintext password is sent in the *password* kwarg. To fail the security check for a password, the signal handler should return a string describing why the password is not secure.

indico.core.signals.core.db schema created

Executed when a new database schema is created. The *sender* is the name of the schema.

indico.core.signals.core.form_validated

Triggered when an IndicoForm was validated successfully. The *sender* is the form object.

This signal may return False to mark the form as invalid even though WTForms validation was successful. In this case it is highly recommended to mark a field as erroneous or indicate the error in some other way.

indico.core.signals.core.get_conditions

Expected to return one or more classes inheriting from *Condition*. The *sender* is a string (or some other object) identifying the context. The additional kwargs passed to this signal depend on the context.

```
indico.core.signals.core.get_fields
```

Expected to return *BaseField* subclasses. The *sender* is an object (or just a string) identifying for what to get fields. This signal should never be registered without restricting the sender to ensure only the correct field types are returned.

indico.core.signals.core.get_placeholders

Expected to return one or more *Placeholder* objects. The *sender* is a string (or some other object) identifying the context. The additional kwargs passed to this signal depend on the context.

indico.core.signals.core.get_search_providers

Expected to return exactly one *IndicoSearchProvider* subclass. No more than one handler for this signal may return one as using multiple search providers at the same time is not possible.

indico.core.signals.core.get_storage_backends

Expected to return one or more Storage subclasses.

indico.core.signals.core.import_tasks

Called when Celery needs to import all tasks. Use this signal if you have modules containing task registered using one of the Celery decorators but don't import them anywhere. The signal handler should only import these modules and do nothing else.

indico.core.signals.event

indico.core.signals.event.abstract created

Called when a new abstract is created. The *sender* is the new abstract.

indico.core.signals.event.abstract_deleted

Called when an abstract is deleted. The *sender* is the abstract.

indico.core.signals.event.abstract_state_changed

Called when an abstract is withdrawn. The *sender* is the abstract.

indico.core.signals.event.abstract_updated

Called when an abstract is modified. The *sender* is the abstract.

indico.core.signals.event.after_registration_form_clone

Executed after a registration form is cloned. The sender is the old RegistrationForm object being cloned. The new RegistrationForm object is passed in the new_form kwarg.

indico.core.signals.event.before_check_registration_email

Called before checking the validity of the registration email. The sender is the RegistrationForm object. The signal handler is expected to return None if all checks passed or a {'status': ..., 'conflict': ...} dictionary. 'status' is expected to be either 'error', 'warning' or ok.

indico.core.signals.event.cloned

Called when an event is cloned. The *sender* is the *Event* object of the old event, the new event is passed in the *new_event* kwarg.

indico.core.signals.event.contribution_created

Called when a new contribution is created. The *sender* is the new contribution.

indico.core.signals.event.contribution_deleted

Called when a contribution is deleted. The *sender* is the contribution.

 $\verb|indico.core.signals.event.contribution_updated|\\$

Called when a contribution is modified. The *sender* is the contribution. A dict containing old, new tuples for all changed values is passed in the changes kwarg.

indico.core.signals.event.created

Called when a new event is created. The *sender* is the new Event. The *cloning* kwarg indictates whether the event is a clone.

indico.core.signals.event.deleted

Called when an event is deleted. The *sender* is the event object. The *user* kwarg contains the user performing the deletion if available.

indico.core.signals.event.filter selectable badges

Called when composing lists of badge templates. The *sender* may be either BadgeSettingsForm, RHListEventTemplates or RHListCategoryTemplates. The list of badge templates is passed in the *badge templates* kwarg. The signal handler is expected to mutate the list.

indico.core.signals.event.generate_ticket_qr_code

Called when generating the QR code for a ticket. The data included in the QR code is passed in the *ticket_data* kwarg and may be modified.

indico.core.signals.event.get_feature_definitions

Expected to return EventFeature subclasses.

indico.core.signals.event.get_log_renderers

Expected to return EventLogRenderer classes.

indico.core.signals.event.imported

Called when data is imported to an event. The *sender* is the *Event* data was imported into, the source event is passed in the *source_event* kwarg.

indico.core.signals.event.is_ticket_blocked

Called when resolving whether Indico should let a registrant download their ticket. The *sender* is the registrant's *Registration* object.

If this signal returns True, the user will not be able to download their ticket. Any badge containing a ticket-specific placeholder such as the ticket qr code is considered a ticket, and the restriction applies to both users trying to get their own ticket and managers trying to get a ticket for a registrant.

indico.core.signals.event.is_ticketing_handled

Called when resolving whether Indico should send tickets with e-mails or it will be handled by other module. The *sender* is the *RegistrationForm* object.

If this signal returns True, no ticket will be emailed on registration.

indico.core.signals.event.location_changed

Called when the location of an object changed. The *sender* is the type of the object, the object itself is passed as *obj*. The changes are passed in the *changes* kwarg.

indico.core.signals.event.metadata_postprocess

Called right after a dict-like representation of an event is created, so that plugins can add their own fields.

The *sender* is a string parameter specifying the source of the metadata. The *event* kwarg contains the event object. The metadata is passed in the *data* kwarg. The *user* kwarg contains the user for whom the data is generated.

The signal should return a dict that will be used to update the original representation (fields to add or override).

indico.core.signals.event.moved

Called when an event is moved to a different category. The *sender* is the event, the old category is in the *old_parent* kwarg.

indico.core.signals.event.note_added

Called when a note is added. The *sender* is the note.

indico.core.signals.event.note_deleted

Called when a note is deleted. The *sender* is the note.

indico.core.signals.event.note_modified

Called when a note is modified. The *sender* is the note.

indico.core.signals.event.note_restored

Called when a previously-deleted note is restored. The *sender* is the note. This is triggered when a "new" note is created on an object that previously already had a note which got deleted.

indico.core.signals.event.person_updated

Called when an EventPerson is modified. The *sender* is the EventPerson.

indico.core.signals.event.print_badge_template

Called when printing a badge template. The registration form is passed in the *regform* kwarg. The list of registration objects are passed in the *registrations* kwarg and it may be modified.

indico.core.signals.event.registration checkin updated

Called when the checkin state of a registration changes. The sender is the Registration object.

indico.core.signals.event.registration_created

Called when a new registration has been created. The *sender* is the *Registration* object. The *data* kwarg contains the form data used to populate the registration fields. The *management* kwarg is set to *True* if the registration was created from the event management area.

indico.core.signals.event.registration_deleted

Called when a registration is removed. The sender is the Registration object.

 $\verb|indico.core.signals.event.registration_form_created|\\$

Called when a new registration form is created. The *sender* is the *RegistrationForm* object.

indico.core.signals.event.registration_form_deleted

Called when a registration form is removed. The *sender* is the *RegistrationForm* object.

indico.core.signals.event.registration_form_edited

Called when a registration form is edited. The sender is the RegistrationForm object.

indico.core.signals.event.registration_form_wtform_created

Called when a the wtform is created for rendering/processing a registration form. The sender is the *RegistrationForm* object. The generated WTForm class is passed in the *wtform_cls* kwarg and it may be modified. The *registration* kwarg contains a *Registration* object when called from registration edit endpoints. The *management* kwarg is set to *True* if the registration form is rendered/processed from the event management area.

indico.core.signals.event.registration_personal_data_modified

Called when the registration personal data is modified. The *sender* is the *Registration* object; the change is passed in the *change* kwarg.

indico.core.signals.event.registration_state_updated

Called when the state of a registration changes. The *sender* is the *Registration* object; the previous state is passed in the *previous_state* kwarg.

indico.core.signals.event.registration_updated

Called when a registration has been updated. The *sender* is the *Registration* object. The *data* kwarg contains the form data used to populate the registration fields. The *management* kwarg is set to *True* if the registration was updated from the event management area.

indico.core.signals.event.restored

Called when a previously-deleted event is restored. The *sender* is the event object. The *user* kwarg contains the user restoring the event if available, and the *reason* kwarg the reason if available.

indico.core.signals.event.session_block_deleted

Called when a session block is deleted. The *sender* is the session block. This signal is called before the db. session.delete() on the block is executed.

indico.core.signals.event.session_block_updated

Called when a session block is updated. The *sender* is the session block.

indico.core.signals.event.session_deleted

Called when a session is deleted. The *sender* is the session.

 $\verb|indico.core.signals.event.session_updated|\\$

Called when a session is updated. The *sender* is the session.

86 Chapter 5. Plugins

indico.core.signals.event.sidemenu

Expected to return MenuEntryData objects to be added to the event side menu. A single entry can be returned directly, multiple entries must be yielded.

indico.core.signals.event.subcontribution created

Called when a new subcontribution is created. The *sender* is the new subcontribution.

indico.core.signals.event.subcontribution deleted

Called when a subcontribution is deleted. The *sender* is the subcontribution.

indico.core.signals.event.subcontribution updated

Called when a subcontribution is modified. The sender is the subcontribution.

$\verb|indico.core.signals.event.times_changed|\\$

Called when the times of a scheduled object (contribution, break or session block) change, either by a change in duration or start time. The *sender* is the type of the object; the timetable entry is passed as *entry* and the object is passed as *obj*. Information about the changes are passed as *changes* which is a dict containing old/new tuples for *start_dt*, *duration* and *end_dt*. If an attribute did not change, it is not included in the dict. If the time of the event itself changes, *entry* is None and *obj* contains the *Event*.

indico.core.signals.event.timetable buttons

Expected to return a list of tuples ('button_name', 'js-call-class'). Called when building the timetable view.

indico.core.signals.event.timetable_entry_created

Called when a new timetable entry is created. The *sender* is the new entry.

indico.core.signals.event.timetable_entry_deleted

Called when a timetable entry is deleted. The *sender* is the entry. This signal is triggered right before the entry deletion is performed.

indico.core.signals.event.timetable_entry_updated

Called when a timetable entry is updated. The *sender* is the entry. A dict containing old, new tuples for all changed values is passed in the changes kwarg.

$\verb|indico.core.signals.event.type_changed|\\$

Called when the type of an event is changed. The *sender* is the event, the old type is passed in the *old_type* kwarg.

indico.core.signals.event.updated

Called when basic data of an event is updated. The *sender* is the event. A dict of changes is passed in the *changes* kwarg, with (old, new) tuples for each change. Note than the *person_links* change may happen with *old* and *new* being the same lists for technical reasons. If the key is present, it should be assumed that something changed (usually the order or some data on the person link).

indico.core.signals.event management

indico.core.signals.event_management.get_cloners

Expected to return one or more EventCloner subclasses implementing a cloning operation for something within an event.

indico.core.signals.event_management.image_created

Called when a new image is created. The *sender* object is the new ImageFile. The user who uploaded the image is passed in the user kwarg.

indico.core.signals.event_management.image_deleted

Called when an image is deleted. The *sender* object is the ImageFile that is about to be deleted. The user who uploaded the image is passed in the user kwarg.

indico.core.signals.event_management.management_url

Expected to return a URL for the event management page of the plugin. This is used when someone who does not have event management access wants to go to the event management area. He is then redirected to one of the URLs returned by plugins, i.e. it is not guaranteed that the user ends up on a specific plugin's management page. The signal should return None if the current user (available via session.user) cannot access the management area. The *sender* is the event object.

indico.core.signals.menu

indico.core.signals.menu.items

Expected to return one or more *SideMenuItem* to be added to the side menu. The *sender* is an id string identifying the target menu.

indico.core.signals.menu.sections

Expected to return one or more *SideMenuSection* objects to be added to the side menu. The *sender* is an id string identifying the target menu.

indico.core.signals.plugin

indico.core.signals.plugin.cli

Expected to return one or more click commands/groups. If they use *indico.cli.core.cli_command / indico.cli.core.cli_group* they will be automatically executed within a plugin context and run within a Flask app context by default.

indico.core.signals.plugin.get_blueprints

Expected to return one or more IndicoPluginBlueprint-based blueprints which will be registered on the application. The Blueprint must be named either *PLUGINNAME* or *compat_PLUGINNAME*.

indico.core.signals.plugin.get_conference_themes

Expected to return (name, css, title) tuples for conference stylesheets. name is the internal name used for the stylesheet which will be stored when the theme is selected in an event. css is the location of the CSS file, relative to the plugin's static folder. title is the title displayed to the user when selecting the theme.

indico.core.signals.plugin.get_event_request_definitions

Expected to return one or more RequestDefinition subclasses.

indico.core.signals.plugin.get_event_themes_files

Expected to return the path of a themes yaml containing event theme definitions.

indico.core.signals.plugin.get_template_customization_paths

Expected to return the absolute path to a directory containing template overrides. This signal is called once during initialization so it should not use any data that may change at runtime. The behavior of a customization path returned by this function is exactly like <CUSTOMIZATION_DIR>/templates, but it has lower priority than the one from the global customization dir.

indico.core.signals.plugin.inject_bundle

Expected to return a list of bundle names which are loaded after all the rest. The *sender* is the WP class of the page.

indico.core.signals.plugin.schema_post_dump

Called when a marshmallow schema is dumped. The *sender* is the schema class and code using this signal should always specify it. The signal is called with the following arguments:

- many bool indicating whether the data was dumped with many=True or not
- data the dumped data. this is guaranteed to be a list; in case of many=False it is guaranteed to contain exactly one element

• orig – the original data before dumping, just like data it is always a list

If a plugin wants to modify the data returned when dumping, it may do so by modifying the contents of data.

```
indico.core.signals.plugin.schema_post_load
```

Called after a marshmallow schema is loaded. The *sender* is the schema class and code using this signal should always specify it. The signal is called with the following arguments:

• data – the data returned by marshmallow; this is usually a dict which may contain more complex data types than those valid in JSON

If a plugin wants to modify the resulting data, it may do so by modifying the contents of data.

```
indico.core.signals.plugin.schema_pre_load
```

Called when a marshmallow schema is loaded. The *sender* is the schema class and code using this signal should always specify it. The signal is called with the following arguments:

• data – the raw data passed to marshmallow; this is usually a dict of raw json/form data coming from the user, so it can have all types valid in JSON

If a plugin wants to modify the data the schema will eventually load, it may do so by modifying the contents of data.

```
indico.core.signals.plugin.shell_context
```

Called after adding stuff to the *indico shell* context. Receives the *add_to_context* and *add_to_context_multi* keyword args with functions which allow you to add custom items to the context.

```
indico.core.signals.plugin.template_hook
```

Expected to return a (is_markup, priority, value) tuple. The returned value will be inserted at the location where this signal is triggered; if multiple receivers are connected to the signal, they will be ordered by priority. If *is_markup* is True, the value will be wrapped in a *Markup* object which will cause it to be rendered as HTML. The *sender* is the name of the actual hook. The keyword arguments depend on the hook.

indico.core.signals.rb

```
indico.core.signals.rb.booking_created
```

Executed after a booking has been successfully created. The sender is the new Reservation object.

```
indico.core.signals.rb.booking_deleted
```

Executed after a booking has been deleted. The *sender* is the *Reservation* object.

```
indico.core.signals.rb.booking_modified
```

Executed after a booking has been modified. The *sender* is the *Reservation* object and a dictionary of changed values is passed in the *changes* kwarg.

```
indico.core.signals.rb.booking occurrence state changed
```

Executed after the state of a booking occurrence changed. The sender is the ReservationOccurrence object.

```
indico.core.signals.rb.booking_state_changed
```

Executed after a booking has been cancelled/rejected/accepted. The sender is the Reservation object.

indico.core.signals.rh

```
indico.core.signals.rh.before_process
```

Executed right before _process of an RH instance is called. The sender is the RH class, the current instance is passed in rh. If a signal handler returns a value, the original _process method will not be executed. If multiple signal handlers return a value, an exception is raised.

```
indico.core.signals.rh.check access
```

Executed right after _check_access of an RH instance has been called unless the access check raised an exception. The sender is the RH class, the current instance is passed in rh.

```
indico.core.signals.rh.process
```

Executed right after _process of an RH instance has been called. The sender is the RH class, the current instance is passed in rh. The return value of _process is available in result and if a signal handler returns a value, it will replace the original return value. If multiple signals handlers return a value, an exception is raised.

```
indico.core.signals.rh.process_args
```

Executed right after _process_args of an RH instance has been called. The sender is the RH class, the current instance is passed in rh. The return value of _process_args (usually None) is available in result.

indico.core.signals.users

```
indico.core.signals.users.email_added
```

Called when a new email address is added to a user. The *sender* is the user object and the email address is passed in the *email* kwarg. The *silent* kwarg indicates whether the email was added during some automated process where no messages should be flashed (e.g. because the sync was in a background task or triggered during a request from another user).

```
indico.core.signals.users.logged_in
```

Called when a user logs in. The *sender* is the User who logged in. Depending on whether this was a regular login or an admin impersonating the user, either the *identity* kwarg is set to the *Identity* used by the user to log in or the *admin impersonation* kwarg is True.

```
indico.core.signals.users.merged
```

Called when two users are merged. The *sender* is the main user while the merged user (i.e. the one being deleted in the merge) is passed via the *source* kwarg.

```
indico.core.signals.users.preferences
```

Expected to return a *ExtraUserPreferences* subclass which implements extra preferences for the user preference page. The *sender* is the user for whom the preferences page is being shown which might not be the currently logged-in user!

```
indico.core.signals.users.primary_email_changed
```

Called when the primary address is changed. The *sender* is the user object and the *new* and *old* values are passed as kwargs.

```
\verb|indico.core.signals.users.reg| is tered
```

Called once a user registers (either locally or joins through a provider). The *sender* is the new user object. The kwarg *from_moderation* indicates whether the user went through a moderation process (this also includes users created by an administrator manually) or was created immediately on registration; the identity associated with the registration is passed in the *identity* kwarg.

```
indico.core.signals.users.registration_requested
```

Called when a user requests to register a new indico account, i.e. if moderation is enabled. The *sender* is the registration request.

5.1.4 Adding models to your plugin

Plugins must describe its database model the in the *models* folder if needed:

```
class Foo(db.Model):
    __tablename__ = 'foo'
    __table_args__ = {'schema': 'plugin_example'}
```

(continued from previous page)

```
id = db.Column(
      db.Integer,
      primary_key=True
  bar = db.Column(
      db.String,
      nullable=False,
      default=''
   location_id = db.Column(
      db.Integer,
      db.ForeignKey('roombooking.locations.id'),
      nullable=False
  location = db.relationship(
      'Location',
      backref=db.backref('example_foo', cascade='all, delete-orphan', lazy='dynamic
\hookrightarrow '),
   def __repr__(self):
```

Thanks to **Alembic**, the migration needed to create the tables in the database can also be included in the plugin. The steps to do so are:

- 1. Create a revision for the changes your plugin will add with indico db --plugin example migrate -m 'short description'
- 2. Fine-tune the revision file generated under *migrations*.
- 3. Run indico db --plugin example upgrade to have Alembic upgrade your DB with the changes.

92 Chapter 5. Plugins

CHAPTER 6

HTTP API

Indico allows you to programmatically access the content of its database by exposing various information like category contents, events, rooms and room bookings through a web service, the HTTP Export API.

6.1 Indico - HTTP API

Indico allows you to programmatically access the content of its database by exposing various information like category contents, events, rooms and room bookings through a web service, the HTTP Export API.

6.1.1 Accessing the API

URL structure

where:

Indico allows you to programmatically access the content of its database by exposing various information like category contents, events, rooms and room bookings through a web service, the HTTP Export API.

The basic URL looks like:

https://my.indico.server/export/WHAT/[LOC/]ID.TYPE?PARAMS

or when using legacy API keys:

https://my.indico.server/export/WHAT/[LOC/]ID.TYPE?PARAMS&ak=KEY×tamp=TS&signature=SI

- WHAT is the element you want to export (one of categ, event, room, reservation)
- *LOC* is the location of the element(s) specified by *ID* and only used for certain elements, for example, for the room booking (https://indico.server/export/room/CERN/120.json?ak=0...)
- *ID* is the ID of the element you want to export (can be a separated list). As for example, the 120 in the above URL.
- TYPE is the output format (one of json, jsonp, xml, html, ics, atom, bin)

- PARAMS are various parameters affecting (filtering, sorting, ...) the result list
- KEY, TS, SIG are part of the API Key Authentication (Deprecated)

Some examples could be:

- Export data about events in a category: /export/categ/2.json? from=today&to=today&pretty=yes
- Export data about a event: /export/event/137346.json?occ=yes&pretty=yes
- Export data about rooms: /export/room/CERN/120.json?pretty=yes
- Export your reservations: /export/reservation/CERN.json?detail=reservations&from=today&to=today

See more details about querying in Exporters.

API Token Authentication

New in version 3.0.

Indico users may create API tokens with a custom name and scope. They can then be used to authenticate requests to the Indico API using the standard Authorization: Bearer <token> HTTP header.

Compared to the legacy API key authentication (see below), they have various advantages:

- no need to generate signatures and deal with expiring links nowadays with HTTPS being widespread, the risk of leaking a link (but not the secrets used to generate it) is very low
- authentication using a HTTP header avoids including sensitive information in the query string
- · each application/script can get its own token, which can have only the scopes assigned that are actually needed
- they behave exactly like OAuth tokens, except that no OAuth application or OAuth flow is required, which makes them perfect for use in custom scripts

These personal API tokens always have the format indp_<42 random chars> - tokens generated during a regular OAuth flow have the indo_ prefix instead.

Note: Indico administrators have the ability to restrict the creation of API tokens; in that case only admins can create tokens or manage their scopes, but users who have a token can still reset it in order to use the API once authorized by an admin.

Scopes

API tokens can have one of these scopes:

- full:everything Everything (all methods)
- read:everything Everything (only GET)
- read:legacy_api Classic API (read only)
- write:legacy_api Classic API (write only)
- registrants Event registrants
- read:user User information (read only)

The everything scopes are special because they can be used with *any* Indico endpoint, i.e. they are not restricted to official APIs. This has the advantage that even Indico actions which do not have a corresponding API can be scripted. Endpoints covered by the legacy_api scopes are *not* included; these scopes need to be granted explicitly.

Warning: We make absolutely no promises of backwards compatibility on endpoints that are not part of documented APIs. You use them at your own risk.

The legacy_api scopes grant access to the API this documentation is about, i.e. /export/ for retrieving data and some /api/ paths for modifying data.

The read: user scope grants access to basic information about the current user via the /api/user/ endpoint:

```
"admin": false,
   "email": "guinea.pig@example.com",
   "first_name": "Guinea",
   "id": 1337,
   "last_name": "Pig"
}
```

The registrants scope is mainly used by the mobile check-in app and grants access to (currently) undocumented APIs that allow retrieving the list of registrants in an event and and updating their check-in state.

API Key Authentication (Deprecated)

Deprecated since version 3.0: Use *API Token Authentication* instead. This authentication method may be removed in a future version.

General

The HTTP Export API uses an API key and - depending on the config - a cryptographic signature for each request.

To create an API key, go to My Profile » HTTP API and click the Create API key button. This will create an API Key and a Secret Key (if signatures are required).

It is recommended to always use the highest security level. That means if only an *API key* is available always include it and if a *secret key* is available, always sign your requests. Since you might want to retrieve only public information (instead of everything visible to your Indico user) you can add the param *onlypublic=yes* to the query string.

It is also possible to re-use the existing Indico session. This only makes sense if your browser accesses the API, e.g. because you are developing on Indico and want to access the API via an AJAX request. Additionally this method of authentication is restricted to GET requests. To use it, add *cookieauth=yes* to the query string and do not specify an API key, timestamp or signature. To prevent data leakage via CSRF the CSRF token of the current session needs to be provided as a GET argument *csrftoken* or a HTTP header *X-CSRF-Token*.

Request Signing

To sign a request, you need the following:

- The requested path, e.g. /export/categ/123.json
- Any additional params, e.g. limit=10
- The current UNIX timestamp

- Your API key and secret key
- 1) Add your API key to the params (*limit=10&ak=your-api-key*)
- 2) Add the current timestamp to the params (limit=10&ak=your-api-key×tamp=1234567890)
- 3) Sort the query string params (ak=your-api-key&limit=10×tamp=1234567890)
- 4) Merge path and the sorted query string to a single string (/export/categ/123.json?ak=your-api-key&limit=10×tamp=1234567890)
- 5) Create a HMAC-SHA1 signature of this string using your secret key as the key.
- 6) Append the hex-encoded signature to your query string: ?ak=your-apikey&limit=10×tamp=1234567890&signature=your-signature

Note that a signed request might be valid only for a few seconds or minutes, so you **need** to sign it right before sending it and not store the generated URL as it is likely to expire soon.

You can find example code for Python and PHP in the following sections.

If persistent signatures are enabled, you can also omit the timestamp. In this case the URL is valid forever. When using this feature, please make sure to use these URLs only where necessary - use timestamped URLs whenever possible.

Request Signing for Python

A simple example in Python:

```
import hashlib
import hmac
import time
try:
    from urllib.parse import urlencode
except ImportError:
   from urllib import urlencode
def build_indico_request(path, params, api_key=None, secret_key=None, only_
→public=False, persistent=False):
    items = list(params.items()) if hasattr(params, 'items') else list(params)
   if api_key:
        items.append(('apikey', api_key))
    if only_public:
        items.append(('onlypublic', 'yes'))
    if secret_key:
        if not persistent:
            items.append(('timestamp', str(int(time.time()))))
        items = sorted(items, key=lambda x: x[0].lower())
        url = '%s?%s' % (path, urlencode(items))
        signature = hmac.new(secret_key.encode('utf-8'), url.encode('utf-8'),
                             hashlib.shal).hexdigest()
       items.append(('signature', signature))
   if not items:
       return path
    return '%s?%s' % (path, urlencode(items))
if __name__ == '__main__':
```

(continued from previous page)

Request Signing for PHP

A simple example in PHP:

```
<?php
function build_indico_request($path, $params, $api_key = null, $secret_key = null,
→$only_public = false, $persistent = false) {
   if($api_key) {
      $params['apikey'] = $api_key;
   if($only_public) {
       $params['onlypublic'] = 'yes';
   if($secret_key) {
      if(!$persistent) {
          $params['timestamp'] = time();
      uksort($params, 'strcasecmp');
      $url = $path . '?' . http_build_query($params);
      $params['signature'] = hash_hmac('sha1', $url, $secret_key);
   }
   if(!$params) {
      return $path;
   return $path . '?' . http_build_query($params);
if(true) { // change to false if you want to include this file
   $PATH = '/export/categ/1337.json';
   $PARAMS = array(
       'limit' => 123
   echo build_indico_request($PATH, $PARAMS, $API_KEY, $SECRET_KEY) . "\n";
```

6.1.2 Common Parameters

The following parameters are valid for all requests no matter which element is requested. If a parameter has a shorter form, it's given in parentheses.

Param	Short	Description
from/to	f/t	Accepted formats: • ISO 8601 subset - YYYY-MM-DD[THH:MM] • 'today', 'yesterday', 'tomorrow' and 'now' • days in the future/past: '[+/-]DdHHhMMm'
pretty	p	Pretty-print the output. When exporting as JSON it will include whitespace to make the json more human-readable.
onlypublic	op	Only return results visible to unauthenticated users when set to <i>yes</i> .
onlyauthed	oa	Fail if the request is unauthenticated for any reason when this is set to <i>yes</i> .
cookieauth	ca	Use the Indico session cookie to authenticate instead of an API key.
nocache	nc	Disable caching of results when this is set to <i>yes</i> .
limit	n	Return no more than the X results.
offset	O	Skip the first X results.
detail	d	Specify the detail level (values depend on the exported element)
order	0	Sort the results. Must be one of <i>id</i> , <i>start</i> , <i>end</i> , <i>title</i> .
descending	С	Sort the results in descending order when set to <i>yes</i> .
tz	-	Assume given timezone (default UTC) for specified dates. Example: Europe/Lisbon.

6.1.3 API Resources

Categories

URL Format

/export/categ/ID.TYPE

The ID can be either a single category ID or a - separated list. In an authenticated request the special ID favorites will be resolved to the user's list of favorites.

Parameters

Param	Short	Description
loca-	1	Only include events taking place at the specified location. The * and ? wildcards may be used.
tion		
room	r	Only include events taking place in the specified room. The * and ? wildcards may be used.
type	T	Only include events of the specified type. Must be one of: simple_event (or lecture), meeting,
		conference

Detail Levels

events

Returns basic data about the events in the category.

This is the result of the following the query https://my.indico/export/categ/2.json?from=today&to=today&pretty=yes:

```
"count": 2,
   "_type": "HTTPAPIResult",
   "complete": true,
   "url": "https://my.indico/export/categ/2.json?from=today&to=today&pretty=yes",
   "ts": 1308841641,
   "results": [
        {
            "category": "TEST Category",
            "startDate": {
               "date": "2011-06-17",
                "tz": "Europe/Zurich",
               "time": "08:00:00"
           },
           "_type": "Conference",
            "endDate": {
               "date": "2011-06-30",
               "tz": "Europe/Zurich",
               "time": "18:00:00"
           },
           "description": "",
           "title": "Test EPayment",
           "url": "http://pcituds07.cern.ch/indico/conferenceDisplay.py?confId=137344
"location": "CERN",
           "_fossil": "conferenceMetadata",
           "timezone": "Europe/Zurich",
           "type": "conference",
            "id": "137344",
           "room": "1-1-025",
           "keywords": []
       },
           "category": "TEST Category",
           "startDate": {
               "date": "2011-06-23",
                "tz": "Europe/Zurich",
```

(continued from previous page)

```
"time": "08:00:00"
        },
        "_type": "Conference",
        "endDate": {
           "date": "2011-06-24",
            "tz": "Europe/Zurich",
            "time": "18:00:00"
        },
        "description": "",
        "title": "Export Test",
        "url": "http://pcituds07.cern.ch/indico/conferenceDisplay.py?confId=137346
        "location": "CERN",
        "_fossil": "conferenceMetadata",
        "timezone": "Europe/Zurich",
        "type": "meeting",
        "id": "137346",
        "room": null,
        "keywords": []
]
```

Events

URL Format

/export/event/ID.TYPE

The ID can be either a single event ID or a - separated list.

Parameters

Param	Short	Description
occurrences	occ	Include the daily event times in the exported data.

Detail Levels

events

Returns basic data about the event. In this example occurrences are included, too.

Result for https://indico.server/export/event/137346.json?occ=yes&pretty=yes:

```
"count": 1,
   "_type": "HTTPAPIResult",
   "complete": true,
   "url": "https://indico.server/export/event/137346.json?occ=yes&pretty=yes",
   "ts": 1308899256,
   "results": [
```

(continued from previous page)

```
{
        "category": "TEST Category",
        "startDate": {
            "date": "2011-06-23",
            "tz": "Europe/Zurich",
            "time": "08:00:00"
        },
        "_type": "Conference",
        "endDate": {
            "date": "2011-06-24",
            "tz": "Europe/Zurich",
            "time": "18:00:00"
        },
        "description": "",
        "title": "Export Test",
        "url": "http://indico.server/conferenceDisplay.py?confId=137346",
        "room": null,
        "keywords": [],
        "occurrences": [
            {
                "_fossil": "period",
                "endDT": {
                     "date": "2011-06-23",
                     "tz": "Europe/Zurich",
                    "time": "08:40:00"
                },
                "startDT": {
                    "date": "2011-06-23",
                    "tz": "Europe/Zurich",
                    "time": "08:00:00"
                "_type": "Period"
            },
                "_fossil": "period",
                "endDT": {
                    "date": "2011-06-24",
                    "tz": "Europe/Zurich",
                    "time": "15:00:00"
                },
                "startDT": {
                    "date": "2011-06-24",
                    "tz": "Europe/Zurich",
                    "time": "12:00:00"
                "_type": "Period"
            }
        ],
        "_fossil": "conferenceMetadata",
        "timezone": "Europe/Zurich",
        "type": "meeting",
        "id": "137346",
        "location": "CERN"
    }
]
```

contributions

Includes the contributions of the event.

Output for https://indico.server/export/event/137346.json?detail=contributions&pretty=yes:

```
"count": 1,
   "_type": "HTTPAPIResult",
   "complete": true,
   "url": "https://indico.server/export/event/137346.json?detail=contributions&
⇔pretty=yes",
   "ts": 1308899252,
   "results": [
        {
            "category": "TEST Category",
            "startDate": {
                "date": "2011-06-23",
                "tz": "Europe/Zurich",
                "time": "08:00:00"
            },
            "_type": "Conference",
            "endDate": {
                "date": "2011-06-24",
                "tz": "Europe/Zurich",
                "time": "18:00:00"
            },
            "description": "",
            "title": "Export Test",
            "url": "http://indico.server/conferenceDisplay.py?confId=137346",
            "type": "meeting",
            "location": "CERN",
            "_fossil": "conferenceMetadataWithContribs",
            "timezone": "Europe/Zurich",
            "keywords": [],
            "contributions": [
                {
                    "startDate": {
                        "date": "2011-06-23",
                        "tz": "Europe/Zurich",
                        "time": "08:20:00"
                    },
                    "_type": "Contribution",
                    "endDate": {
                        "date": "2011-06-23",
                        "tz": "Europe/Zurich",
                        "time": "08:40:00"
                    },
                    "description": "",
                    "title": "d1c2",
                    "track": null,
                    "duration": 20,
                    "session": null,
                    "location": "CERN",
                    "_fossil": "contributionMetadata",
                    "type": null,
                    "id": "1",
                    "room": null
```

(continued from previous page)

```
},
{
    "startDate": {
        "date": "2011-06-23",
        "tz": "Europe/Zurich",
        "time": "08:00:00"
    },
    "_type": "Contribution",
    "endDate": {
        "date": "2011-06-23",
        "tz": "Europe/Zurich",
        "time": "08:20:00"
    },
    "description": "",
    "title": "d1c1",
    "track": null,
    "duration": 20,
    "session": null,
    "location": "CERN",
    "_fossil": "contributionMetadata",
    "type": null,
    "id": "0",
    "room": null
},
    "startDate": {
        "date": "2011-06-24",
        "tz": "Europe/Zurich",
        "time": "14:00:00"
    },
    "_type": "Contribution",
    "endDate": {
        "date": "2011-06-24",
        "tz": "Europe/Zurich",
        "time": "14:20:00"
    },
    "description": "",
    "title": "d2s1c1",
    "track": null,
    "duration": 20,
    "session": "d2s1",
    "location": "CERN",
    "_fossil": "contributionMetadata",
    "type": null,
    "id": "3",
    "room": null
},
    "startDate": {
        "date": "2011-06-24",
        "tz": "Europe/Zurich",
        "time": "12:00:00"
    },
    "_type": "Contribution",
    "endDate": {
        "date": "2011-06-24",
        "tz": "Europe/Zurich",
```

(continued from previous page)

```
"time": "14:00:00"
                 },
                 "description": "",
                 "title": "d2c1",
                 "track": null,
                 "duration": 120,
                 "session": null,
                 "location": "CERN",
                 "_fossil": "contributionMetadata",
                 "type": null,
                 "id": "2",
                 "room": null
            }
        ],
        "id": "137346",
        "room": null
    }
]
```

subcontributions

Like contributions, but inside the contributions the subcontributions are included in a field named subContributions.

sessions

Includes details about the different sessions and groups contributions by sessions. The top-level *contributions* list only contains contributions which are not assigned to any session. Subcontributions are included in this details level, too.

For example, https://indico.server/export/event/137346.json?detail=sessions&pretty=yes:

```
"count": 1,
"_type": "HTTPAPIResult",
"complete": true,
"url": "https://indico.server/export/event/137346.json?detail=sessions&pretty=yes
"ts": 1308899771,
"results": [
        "category": "TEST Category",
        "startDate": {
            "date": "2011-06-23",
            "tz": "Europe/Zurich",
            "time": "08:00:00"
        },
        "_type": "Conference",
        "endDate": {
            "date": "2011-06-24",
            "tz": "Europe/Zurich",
            "time": "18:00:00"
        },
        "description": "",
        "title": "Export Test",
```

```
"url": "http://indico.server/conferenceDisplay.py?confId=137346",
"keywords": [],
"contributions": [
   {
        "startDate": {
            "date": "2011-06-23",
            "tz": "Europe/Zurich",
            "time": "08:20:00"
        },
        "_type": "Contribution",
        "endDate": {
            "date": "2011-06-23",
            "tz": "Europe/Zurich",
            "time": "08:40:00"
        "description": "",
        "subContributions": [],
        "title": "d1c2",
        "track": null,
        "duration": 20,
        "session": null,
        "location": "CERN",
        "_fossil": "contributionMetadataWithSubContribs",
        "type": null,
        "id": "1",
        "room": null
   },
        "startDate": {
           "date": "2011-06-23",
            "tz": "Europe/Zurich",
           "time": "08:00:00"
        },
        "_type": "Contribution",
        "endDate": {
            "date": "2011-06-23",
            "tz": "Europe/Zurich",
            "time": "08:20:00"
        },
        "description": "",
        "subContributions": [],
        "title": "d1c1".
        "track": null,
        "duration": 20,
        "session": null,
        "location": "CERN",
        "_fossil": "contributionMetadataWithSubContribs",
        "type": null,
        "id": "0",
        "room": null
   },
        "startDate": {
            "date": "2011-06-24",
            "tz": "Europe/Zurich",
            "time": "12:00:00"
```

```
"_type": "Contribution",
        "endDate": {
            "date": "2011-06-24",
            "tz": "Europe/Zurich",
            "time": "14:00:00"
        "description": "",
        "subContributions": [],
        "title": "d2c1",
        "track": null,
        "duration": 120,
        "session": null,
        "location": "CERN",
        "_fossil": "contributionMetadataWithSubContribs",
        "type": null,
        "id": "2",
        "room": null
    }
],
"sessions": [
   {
        "startDate": {
            "date": "2011-06-24",
            "tz": "Europe/Zurich",
            "time": "14:00:00"
        },
        "_type": "Session",
        "room": "",
        "numSlots": 1,
        "color": "#EEE0EF",
        "material": [],
        "isPoster": false,
        "sessionConveners": [],
        "location": "CERN",
        "address": "",
        "_fossil": "sessionMetadata",
        "title": "d2s1",
        "textColor": "#1D041F",
        "contributions": [
                "startDate": {
                    "date": "2011-06-24",
                    "tz": "Europe/Zurich",
                    "time": "14:00:00"
                },
                "_type": "Contribution",
                "endDate": {
                    "date": "2011-06-24",
                    "tz": "Europe/Zurich",
                    "time": "14:20:00"
                },
                "description": "",
                "subContributions": [],
                "title": "d2s1c1",
                "track": null,
                "duration": 20,
                "session": "d2s1",
```

```
"location": "CERN",
                         "_fossil": "contributionMetadataWithSubContribs",
                         "type": null,
                         "id": "3",
                         "room": null
                    }
                ],
                "id": "0"
            }
        ],
        "location": "CERN",
        "_fossil": "conferenceMetadataWithSessions",
        "timezone": "Europe/Zurich",
        "type": "meeting",
        "id": "137346",
        "room": null
   }
]
```

Timetable

URL Format

/export/timetable/ID.TYPE

The ID should be the event ID, e.g. 123.

Results

Returns the timetable of the event.

```
"count": 1,
  "additionalInfo": {},
  "_type": "HTTPAPIResult",
  "complete": true,
  →0000-0000-000000000000&pretty=yes",
  "ts": 1367242732,
  "results": {
      "137346": {
         "20130429": {
            "c0": {
                "startDate": {
                   "date": "2013-04-29",
                   "tz": "Europe\/Zurich",
                   "time": "16:00:00"
                },
                "_type": "ContribSchEntry",
                "material": [],
```

```
"endDate": {
                "date": "2013-04-29",
                "tz": "Europe\/Zurich",
                "time": "16:30:00"
            "description": "",
            "title": "Contrib 1",
            "id": "c0",
            "contributionId": "0",
            "sessionSlotId": null,
            "conferenceId": "137346",
            "presenters": [],
            "sessionId": null,
            "location": "CERN",
            "uniqueId": "a137346t0",
            "_fossil": "contribSchEntryDisplay",
            "sessionCode": null,
            "entryType": "Contribution",
            "room": "160-1-009"
        }
   }
}
```

Event Search

URL Format

/export/event/search/TERM.TYPE

The TERM should be a string, e.g. "ichep"

Results

Returns the events found.

```
"id": "101465",
            "title": "Rehearsals for ICHEP Friday 16th July Afternoon Session"
       },
            "startDate": {
                "date": "2010-08-06",
                "tz": "UTC",
                "time": "12:00:00"
            "hasAnyProtection": false,
            "id": "102669",
            "title": "Overview of LHC physics results at ICHEP"
       },
            "startDate": {
                "date": "2010-08-18",
                "tz": "UTC",
                "time": "17:00:00"
            "hasAnyProtection": false,
            "id": "104128",
            "title": "Seminer Oturumu: \"ATLAS status and highlights as of ICHEP\" Dr.
→ Tayfun Ince (Universitaet Bonn)"
       },
        {
            "startDate": {
                "date": "2011-07-23",
                "tz": "UTC",
                "time": "11:00:00"
            "hasAnyProtection": false,
            "id": "145521",
            "title": "89th Plenary ECFA and Joint EPS\/ICHEP-ECFA Session - Grenoble,
→France"
       },
        {
            "startDate": {
               "date": "2012-01-12",
                "tz": "UTC",
                "time": "08:00:00"
            },
            "hasAnyProtection": false,
            "id": "168897",
            "title": "ICHEP 2012 Outreach Planning Meeting"
   ]
```

Files

General Information

The file export is only available for authenticated users, i.e. when using an API key and a signature (if enabled).

URL Format

/export/event/EVENT_ID/session/SESSION_ID/contrib/CONTRIBUTION_ID/subcontrib/SUBCONTRIBUTION_ID/material/MATERIA All ID's should be single ID, not separated list.

The EVENT_ID should be the event ID, e.g. 123.

The SESSION_ID (optional) should be the session ID, e.g. 4.

The CONTRIBUTION_ID (optional) should be the contribution ID, e.g. 3.

The SUBCONTRIBUTION_ID (optional) should be the sub-contribution ID, e.g. 1.

The MATERIAL_ID should by the material name if it came default group e.g. Slides or material ID if not, e.g. 2.

The RESOURCE_ID should by the resource ID.

Only supported TYPE for files is bin (binary data).

Parameters

None

Detail Levels

file

Returns file (or an error in JSON format).

User

General Information

The user export is only available for authenticated users, i.e. when using an API key and a signature (if enabled).

URL Format

/export/user/USER_ID.TYPE

The USER_ID should be the user ID, e.g. 44.

Parameters

None

Results

Returns the user information (or an error in JSON format).

```
"count": 1,
   "additionalInfo": {},
   "_type": "HTTPAPIResult"
   "ts": 1610536660,
   "url": "https:\/\/indico.server\/export\/user\/6.json?ak=00000000-0000-0000-0000-
→0000000000000000&pretty=yes",
   "results": [{
       "id": 6,
       "first_name": "Guinea",
       "last_name": "Pig",
       "full_name": "Guinea Pig"
       "email": "test@cern.ch",
       "affiliation": "CERN",
       "phone": "",
       "avatar_url": "\/user\/6\/picture-default",
       "identifier": "User:6",
   }],
```

Room Booking

Bookings

Creating bookings

General Information

The Room Booking API is only available for authenticated users, i.e. when using an API key and a signature (if enabled). If the room booking system is restricted to certain users/groups this restriction applies for this API, too. The request will fail if there is a collision with another booking, blocking or unavailable period.

Note that it is not possible to pre-book a room through this api.

URL Format

/api/roomBooking/bookRoom.TYPE

TYPE should be json or xml.

Parameters

The following parameters are required:

Param	Values	Description
location	text	Room location, e.g. CERN
roomid	text	Room id
from/to	f/t	Start/End time for a booking. Accepted formats:
		• ISO 8601 subset - YYYY-MM-DD[THH:MM] • 'today', 'yesterday', 'tomorrow' and 'now' • days in the future/past: '[+/-]DdHHhMMm'
reason	text	Reason for booking a room
username	text	User login name for whom the booking will be created

Booking a room

POST request

Returns reservation id if the booking was successful or error information it there were any problems.

For example:

Result:

```
{
    "url": "\/api\/roomBooking\/bookRoom.json",
    "_type": "HTTPAPIResult",
    "results": {
        "reservationID": 45937
    },
    "ts": 1354695663
    }
}
```

Retrieving bookings

General Information

The reservation export is only availabled for authenticated users, i.e. when using an API key and a signature (if enabled). If the room booking system is restricted to certain users/groups this restriction applies for the reservation export API, too.

Please note that the room export with the *reservations* detail level is much more appropriate if you need reservations for specific rooms.

URL Format

/export/reservation/LOCATION.TYPE

The LOCATION should be the room location, e.g. CERN. A - separated list of multiple locations is allowed, too.

Parameters

Param	Short	: Values	Description
occur-	occ	yes, no	Include all occurrences of room reservations.
rences			
can-	cxl	yes, no	If specified only include cancelled (<i>yes</i>) or non-cancelled (<i>no</i>) reservations.
celled			
rejected	rej	yes, no	If specified only include rejected/non-rejected resvs.
con-	-	yes, no,	If specified only include bookings/pre-bookings with the given state.
firmed		pending	
archival	arch	yes, no	If specified only include bookings (not) from the past.
recur-	rec	yes, no	If specified only include bookings which are (not) recurring.
ring			
repeat-	rep	yes, no	Alias for recurring
ing			
booked-	bf	text (wild-	Only include bookings where the booked for field matches the given wildcard
for		cards)	string.
occurs	-	yyyy-mm-	Only include bookings which have a valid occurrence on the given date. Multiple
		dd	dates can be separated by commas.

Detail Levels

reservations

Returns detailed data about the reservations and the most important information about the booked room.

```
"fullName": "500-1-001 - Main Auditorium",
            "id": 57
        },
        "isConfirmed": true,
        "isValid": true,
        "repeatability": "daily",
        "repeat_step": 1,
        "vcList": [],
        "reason": "Summer Student Lecture programme",
        "bookedForName": "DOE, John",
        "is_rejected": false,
        "is_cancelled": false,
        "startDT": {
            "date": "2014-07-02",
            "tz": "Europe/Zurich",
            "time": "08:30:00"
        "id": 63779,
        "bookingUrl": "http://indico.server/rooms/booking/CERN/63779/",
        "location": "CERN"
],
"ts": 1406727843
```

Rooms

General Information

The room export is only availabled for authenticated users, i.e. when using an API key and a signature (if enabled). If the room booking system is restricted to certain users/groups this restriction applies for the room export API, too.

URL Format

/export/room/LOCATION/ID.TYPE

The LOCATION should be the room location, e.g. CERN. The ID can be either a single room ID or a - separated list.

Parameters

Param	Short	Values	Description
occur-	occ	yes, no	Include all occurrences of room reservations.
rences			
can-	cxl	yes, no	If specified only include cancelled (<i>yes</i>) or non-cancelled (<i>no</i>) reservations.
celled			
rejected	rej	yes, no	If specified only include rejected/non-rejected resvs.
con-	-	yes, no,	If specified only include bookings/pre-bookings with the given state.
firmed		pending	
archival	arch	yes, no	If specified only include bookings (not) from the past.
recur-	rec	yes, no	If specified only include bookings which are (not) recurring.
ring			
repeat-	rep	yes, no	Alias for recurring
ing			
booked-	bf	text (wild-	Only include bookings where the booked for field matches the given wildcard
for		cards)	string.
occurs	-	yyyy-mm-	Only include bookings which have a valid occurrence on the given date. Multiple
		dd	dates can be separated by commas.

Detail Levels

rooms

Returns basic data about the rooms.

```
"count": 1,
   "additionalInfo": {},
   "_type": "HTTPAPIResult",
   "url": "/export/room/CERN/57.json?ak=00000000-0000-0000-0000-000000000000
⇔pretty=yes",
   "results": [
        {
           "building": "500",
           "_type": "Room",
           "name": "Main Auditorium",
           "floor": "1",
           "longitude": "6.0542704900999995",
           "vcList": [
               "Audio Conference",
               "Built-in (MCU) Bridge",
               "CERN MCU",
               "ESnet MCU",
               "EVO",
                "H323 point2point",
                "Vidyo"
           ],
            "equipment": [
               "Blackboard",
```

```
"Computer Projector",
            "Ethernet",
            "Microphone",
            "PC",
            "Telephone conference",
            "Video conference",
            "Webcast/Recording",
            "Wireless"
        ],
        "roomNr": "001",
        "location": "CERN",
        "latitude": "46.23141394580001",
        "fullName": "500-1-001 - Main Auditorium",
        "id": 57,
        "bookingUrl": "/indico/rooms/room/CERN/57/book"
],
"ts": 1406729635
```

reservations

Returns basic data about the rooms and their reservations in the given timeframe.

```
"count": 1,
   "additionalInfo": {},
   "_type": "HTTPAPIResult",
   →detail=reservations&from=today&to=today&pretty=yes",
   "results": [
      {
          "building": "500",
          "_type": "Room",
          "name": "Main Auditorium",
          "floor": "1",
          "reservations": [
                 "_type": "Reservation",
                 "repeat_unit": 1,
                 "endDT": {
                     "date": "2014-08-14",
                     "tz": "Europe/Zurich",
                     "time": "12:30:00"
                 },
                 "isConfirmed": true,
                 "isValid": true,
                 "repeatability": "daily",
                 "repeat_step": 1,
                 "vcList": [],
                 "reason": "Summer Student Lecture programme",
                 "bookedForName": "DOE, John",
```

```
"is_rejected": false,
                    "is_cancelled": false,
                    "startDT": {
                        "date": "2014-07-02",
                        "tz": "Europe/Zurich",
                        "time": "08:30:00"
                    },
                    "id": 63779,
                    "bookingUrl": "http://pcavc005.cern.ch:8000/indico/rooms/booking/
→CERN/63779/",
                    "location": "CERN"
                }
            ],
            "longitude": "6.0542704900999995",
            "vcList": [
                "Audio Conference",
                "Built-in (MCU) Bridge",
                "CERN MCU",
                "ESnet MCU",
                "EVO",
                "H323 point2point",
                "Vidvo"
            ],
            "equipment": [
                "Blackboard",
                "Computer Projector",
                "Ethernet",
                "Microphone",
                "PC",
                "Telephone conference",
                "Video conference",
                "Webcast/Recording",
                "Wireless"
            ],
            "roomNr": "001",
            "location": "CERN",
            "latitude": "46.23141394580001",
            "fullName": "500-1-001 - Main Auditorium",
            "id": 57,
            "bookingUrl": "/indico/rooms/room/CERN/57/book"
   ],
   "ts": 1406731966
```

Get room by room name

General Information

The search room export is guest allowed because the room data is public (no the reservations).

URL Format

/export/roomName/LOCATION/ROOMNAME.TYPE

The LOCATION should be the room location, e.g. CERN. The ROOMNAME is a single ROOMNAME.

Parameters

No parameters needed.

Results

Returns basic data about the rooms.

```
"count": 1,
   "additionalInfo": {},
   "_type": "HTTPAPIResult",
   "url": "/export/roomName/CERN/Main Auditorium.json?ak=00000000-0000-0000-0000-
→00000000000000&pretty=yes",
   "results": [
        {
            "building": "500",
            "_type": "Room",
            "name": "Main Auditorium",
            "floor": "1",
            "longitude": "6.0542704900999995",
            "vcList": [
                "Audio Conference",
                "Built-in (MCU) Bridge",
                "CERN MCU",
                "ESnet MCU",
                "EVO",
                "H323 point2point",
                "Vidyo"
            ],
            "equipment": [
                "Blackboard",
                "Computer Projector",
                "Ethernet",
                "Microphone",
                "PC",
                "Telephone conference",
                "Video conference",
                "Webcast/Recording",
                "Wireless"
            ],
            "roomNr": "001",
            "location": "CERN",
            "latitude": "46.23141394580001",
            "fullName": "500-1-001 - Main Auditorium",
            "id": 57,
            "bookingUrl": "/indico/rooms/room/CERN/57/book"
   ],
   "ts": 1406732578
```

6.1.4 HTTP API Tools

Note: API keys and signatures have been deprecated. Please consider using *API Token Authentication* instead.

Deprecated since version 3.0.

6.1. Indico - HTTP API

CHAPTER 7

API reference

This part of the documentation focuses on the core modules of Indico and includes information about the **models** and **utility functions and classes** that are useful for understanding the internals of the application.

7.1 API reference

This part of the documentation focuses on the core modules of Indico and includes information about the **models** and **utility functions and classes** that are useful for understanding the internals of the application.

7.1.1 **Event**

Todo: Docstrings (module, models, operations, utilities, settings)

Models

class indico.modules.events.models.events.Event(**kwargs)

Bases: indico.core.db.sqlalchemy.searchable.SearchableTitleMixin, indico.core.db.sqlalchemy.descriptions.DescriptionMixin, indico.core.db.sqlalchemy.locations.LocationMixin, indico.core.db.sqlalchemy.protection.ProtectionManagersMixin, indico.core.db.sqlalchemy.attachments.AttachedItemsMixin, indico.core.db.sqlalchemy.notes.AttachedNotesMixin, indico.modules.events.models.persons.PersonLinkDataMixin, sqlalchemy.orm.decl_api.Model

An Indico event.

This model contains the most basic information related to an event.

Note that the ACL is currently only used for managers but not for view access!

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```
ATTACHMENT FOLDER ID COLUMN = 'event id'
access_key
acl_entries
    The ACL entries for the event
additional_info
all_notes
allow_access_key = True
allow_location_inheritance = False
allow no access contact = True
can_display(user)
    Check whether the user can display the event in the category.
can lock (user)
    Check whether the user can lock/unlock the event.
category
    The category containing the event
classmethod category_chain_overlaps(category_ids)
    Create a filter that checks whether the event has any of the provided category ids in its parent chain.
    Warning: This method cannot be used in a negated filter.
        Parameters category_ids - A list of category ids or a single category id
category_id
    The ID of immediate parent category of the event
cfa
cfp
cloned from
    The event this one was cloned from
cloned from id
    If this event was cloned, the id of the parent event
contact_emails
contact_phones
contact_title
created dt
    The creation date of the event
creator
    The user who created the event
creator id
```

The ID of the user who created the event

```
custom boa
     The custom book of abstracts
custom boa id
     The ID of the uploaded custom book of abstracts (if available)
default page
     The event's default page (conferences only)
default page id
     The ID of the event's default page (conferences only)
default_render_mode = 1
delete (reason, user=None)
disallowed_protection_modes = frozenset()
display_tzinfo
     The tzinfo of the event as preferred by the current user.
duration
editable_types
end dt
     The end date of the event
end dt display
     The 'displayed end dt', which is usually the actual end dt, but may be overridden for a conference.
end dt local
end_dt_override
ends_after (dt)
     Check whether the event ends on/after the specified date.
event
     Convenience property so all event entities have it.
external_logo_url
external url
get allowed sender emails (include current user=True,
                                                                 include creator=True,
                                                                                           in-
                                  clude_managers=True,
                                                               include_contact=True,
                                                                                           in-
                                  clude chairs=True, extra=None)
     Return the emails of people who can be used as senders (or rather Reply-to contacts) in emails sent from
     within an event.
         Parameters
             • include current user – Whether to include the email of the currently logged-in
```

- include_creator Whether to include the email of the event creator
- include_managers Whether to include the email of all event managers
- include_contact Whether to include the "event contact" emails
- include_chairs Whether to include the emails of event chairpersons (or lecture speakers)
- extra An email address that is always included, even if it is not in any of the included lists.

```
Returns A dictionary mapping emails to pretty names
get_contribution (id_)
     Get a contribution of the event.
get_contribution_field(field_id)
get label markup(size=")
get_non_inheriting_objects()
     Get a set of child objects that do not inherit protection.
get_relative_event_ids()
     Get the first, last, previous and next event IDs.
     Any of those values may be None if there is no matching event or if it would be the current event.
         Returns A dict containing first, last, prev and next.
get_session (id_=None, friendly_id=None)
     Get a session of the event.
get_session_block (id_, scheduled_only=False)
     Get a session block of the event.
get_sorted_tracks()
     Return tracks and track groups in the correct order.
get verbose title(show speakers=False, show series pos=False)
     Get the event title with some additional information.
         Parameters
             • show_speakers – Whether to prefix the title with the speakers of the event.
             • show_series_pos - Whether to suffix the title with the position and total count in the
              event's series.
happens_between (from_dt=None, to_dt=None)
     Check whether the event takes place within two dates.
has_custom_boa
has ended
has feature (feature)
    Check if a feature is enabled for the event.
has_logo
has_regform_in_acl
has stylesheet
id
     The ID of the event
inherit_location = False
inheriting_have_acl = True
is_deleted
    If the event has been deleted
is locked
     If the event is locked (read-only mode)
```

is_user_registered(user)

Check whether the user is registered in the event.

This takes both unpaid and complete registrations into account.

classmethod is_visible_in(category_id)

Create a filter that checks whether the event is visible in the specified category.

iter_days (tzinfo=None)

keywords

A list of tags/keywords for the event

label

The label assigned to the event

label id

The ID of the label assigned to the event

label_message

```
location backref name = 'events'
```

locator

log (realm, kind, module, summary, user=None, type_='simple', data=None, meta=None)
Create a new log entry for the event.

Parameters

- realm A value from EventLogRealm indicating the realm of the action.
- kind A value from EventLogKind indicating the kind of the action that was performed.
- module A human-friendly string describing the module related to the action.
- **summary** A one-line summary describing the logged action.
- **user** The user who performed the action.
- **type** The type of the log entry. This is used for custom rendering of the log message/data
- data JSON-serializable data specific to the log type.
- meta JSON-serializable data that won't be displayed.

Returns The newly created *EventLogEntry*

In most cases the simple log type is fine. For this type, any items from data will be shown in the detailed view of the log entry. You may either use a dict (which will be sorted) alphabetically or a list of key, value pairs which will be displayed in the given order.

log_entries

logging_disabled

Temporarily disable event logging.

This is useful when performing actions e.g. during event creation or at other times where adding entries to the event log doesn't make sense.

logo

The logo's raw image data

logo_metadata

The metadata of the logo (hash, size, filename, content type)

```
logo_url
map_url
move (category)
move_start_dt (start_dt)
    Set event start_dt and adjust its timetable entries.
note
organizer_info
own_address
own_map_url
    The url to a map for the event
own_no_access_contact
own_room
own_room_id
own_room_name
own_venue
own_venue_id
own venue name
participation_regform
person_links
    Persons associated with this event
possible_render_modes = {<RenderMode.html:</pre>
preload_all_acl_entries()
protection_mode
protection_parent
    The parent object to consult for ProtectionMode.inheriting.
public_regform_access
published_registrations
references
    External references associated with this event
refresh_event_persons(*, notify=True)
    Update the data for all EventPersons based on the linked Users.
        Parameters notify - Whether to trigger the person_updated signal.
render_mode = 1
reservations
restore (reason=None, user=None)
scheduled notes
series
    The series this event is part of
```

```
series id
         The ID of the series this events belongs to
     session_block_count
     short_external_url
     short url
     start dt
         The start date of the event
     start_dt_display
         The 'displayed start dt', which is usually the actual start dt, but may be overridden for a conference.
     start_dt_local
     start_dt_override
     starts_between (from_dt=None, to_dt=None)
         Check whether the event starts within two dates.
     stylesheet
         The stylesheet's raw image data
     stylesheet_metadata
         The metadata of the stylesheet (hash, size, filename)
     theme
     timetable_entries
     timezone
         The timezone of the event
     title
     type
    type_
     tzinfo
     url
     url shortcut
         The URL shortcut for the event
     visibility
         The visibility depth in category overviews
class indico.modules.events.models.events.EventType
     Bases: indico.util.enum.RichIntEnum
     An enumeration.
     conference = 3
     lecture = 1
     legacy_name
     meeting = 2
class indico.modules.events.models.persons.AuthorsSpeakersMixin
     Bases: object
     AUTHORS_SPEAKERS_DISPLAY_ORDER_ATTR = 'display_order_key'
```

```
primary_authors
     secondary_authors
     speakers
class indico.modules.events.models.persons.EventPerson(**kwargs)
                  indico.modules.users.models.users.PersonMixin,
                                                                                 sqlalchemy.orm.
     decl api.Model
     A person inside an event, e.g. a speaker/author etc.
     A simple constructor that allows initialization from kwargs.
     Sets attributes on the constructed instance using the names and values in kwarqs.
     Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any
     mapped columns or relationships.
     address
     affiliation
     classmethod create_from_user(user, event=None, is_untrusted=False)
     email
     event
     event id
     first name
     classmethod for_user(user, event=None, is_untrusted=False)
          Return EventPerson for a matching User in Event creating if needed.
     has_role(role, obj)
          Whether the person has a role in the ACL list of a given object.
     id
     identifier
     invited_dt
     is_untrusted
     last name
     classmethod link_user_by_email(user)
          Link all email-based persons matching the user's email addresses with the user.
```

Parameters user – A User object.

locator

Define a smart locator property.

This behaves pretty much like a normal read-only property and the decorated function should return a dict containing the necessary data to build a URL for the object.

This decorator should usually be applied to a method named locator as this name is required for *get_locator* to find it automatically when just passing the object.

If you need more than one locator, you can define it like this:

```
@locator_property
         def locator(self):
             return {...}
         @locator.other
         def locator(self):
             return {...}
         The other locator can then be accessed by passing obj.locator.other to the code expecting an
         object with a locator.
    merge_person_info(other)
    classmethod merge_users (target, source)
         Merge the EventPersons of two users.
             Parameters
                • target – The target user of the merge
                • source – The user that is being merged into target
    phone
    principal
    sync_user(*, notify=True)
         Update all person data based on the current user data.
             Parameters notify – Whether to trigger the person_updated signal.
    user
    user_id
class indico.modules.events.models.persons.EventPersonLink(*args, **kwargs)
    Bases: indico.modules.events.models.persons.PersonLinkBase
    Association between EventPerson and Event.
    Chairperson or speaker (lecture)
    display_order
    event id
    id
    is_submitter
    object_relationship_name = 'event'
    person
    person_id
    person_link_backref_name = 'event_links'
    person_link_unique_columns = ('event_id',)
class indico.modules.events.models.persons.PersonLinkBase(*args, **kwargs)
                indico.modules.users.models.users.PersonMixin,
                                                                           sqlalchemy.orm.
    decl_api.Model
    Base class for EventPerson associations.
    address
```

```
affiliation
    display_order = Column(None, Integer(), table=None, nullable=False, default=ColumnDefa
    display_order_key
    display_order_key_lastname
    email
    first name
    id = Column(None, Integer(), table=None, primary_key=True, nullable=False)
    last_name
    object
    object_relationship_name = None
         The name of the relationship pointing to the object the person is linked to
    person = <RelationshipProperty at 0x7fbaff5e4cc0; no key>
    person_id = Column(None, Integer(), ForeignKey('events.persons.id'), table=None, nulla
    person link backref name = None
         The name of the backref on the EventPerson
    person_link_unique_columns = None
        The columns which should be included in the unique constraint.
    phone
    title
class indico.modules.events.models.persons.PersonLinkDataMixin
    Bases: object
    person_link_data
class indico.modules.events.models.principals.EventPrincipal(**kwargs)
                  indico.core.db.sqlalchemy.principals.PrincipalPermissionsMixin,
    sqlalchemy.orm.decl_api.Model
    A simple constructor that allows initialization from kwargs.
    Sets attributes on the constructed instance using the names and values in kwargs.
    Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any
    mapped columns or relationships.
    allow_category_roles = True
    allow emails = True
    allow_event_roles = True
    allow_networks = True
    allow_registration_forms = True
    category_role
    category_role_id
    email
    event id
         The ID of the associated event
```

```
event_role
    event_role_id
    full_access
    id
         The ID of the acl entry
    ip_network_group
    ip_network_group_id
    local_group
    local_group_id
    multipass_group_name
    multipass_group_provider
    permissions
    principal_backref_name = 'in_event_acls'
    principal for = 'Event'
    read_access
    registration_form
    registration_form_id
    type
    unique_columns = ('event_id',)
    user
    user_id
class indico.modules.events.models.references.EventReference(**kwargs)
    Bases: indico.modules.events.models.references.ReferenceModelBase
    A simple constructor that allows initialization from kwargs.
    Sets attributes on the constructed instance using the names and values in kwargs.
    Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any
    mapped columns or relationships.
    event_id
    id
    reference_backref_name = 'event_references'
    reference_type
    reference_type_id
    value
class indico.modules.events.models.references.ReferenceModelBase(**kwargs)
    Bases: sqlalchemy.orm.decl_api.Model
    A simple constructor that allows initialization from kwargs.
```

7.1. API reference 131

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```
id = Column(None, Integer(), table=None, primary_key=True, nullable=False)
reference_backref_name = None
    The name of the backref on the ReferenceType
reference_type = <RelationshipProperty at 0x7fbaff29ee40; no key>
reference_type_id = Column(None, Integer(), ForeignKey('indico.reference_types.id'), t
url
    The URL of the referenced entity.
    None if no URL template is defined.
```

urn

The URN of the referenced entity.

None if no scheme is defined.

```
value = Column(None, String(), table=None, nullable=False)
class indico.modules.events.models.references.ReferenceType(**kwargs)
    Bases: sqlalchemy.orm.decl_api.Model
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwarqs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

id

The unique ID of the reference type

locator

Define a smart locator property.

This behaves pretty much like a normal read-only property and the decorated function should return a dict containing the necessary data to build a URL for the object.

This decorator should usually be applied to a method named locator as this name is required for *get_locator* to find it automatically when just passing the object.

If you need more than one locator, you can define it like this:

```
@locator_property
def locator(self):
    return {...}

@locator.other
def locator(self):
    return {...}
```

The other locator can then be accessed by passing obj.locator.other to the code expecting an object with a locator.

name

The name of the referenced system

scheme

The scheme used to build an URN for the reference

url template

locator

```
A URL template to build a link to a referenced entity
```

```
class indico.modules.events.models.reviews.ProposalCommentMixin
    Bases: object
    can_edit(user)
    timeline_item_type = 'comment'
class indico.modules.events.models.reviews.ProposalGroupProxy(group)
    Bases: object
```

The object that the proposals can be grouped by.

It provides all necessary methods for building the URLs, displaying the grouping information, etc.

```
full_title
full_title_attr = 'full_title'
id
```

Define a smart locator property.

This behaves pretty much like a normal read-only property and the decorated function should return a dict containing the necessary data to build a URL for the object.

This decorator should usually be applied to a method named locator as this name is required for *get_locator* to find it automatically when just passing the object.

If you need more than one locator, you can define it like this:

```
@locator_property
def locator(self):
    return {...}

@locator.other
def locator(self):
    return {...}
```

The other locator can then be accessed by passing obj.locator.other to the code expecting an object with a locator.

```
title
    title_attr = 'title'

class indico.modules.events.models.reviews.ProposalMixin
    Bases: object

Classes that represent a proposal object should extend this class (ex: Abstract, Paper).

call_for_proposals_attr = None
    Attribute to retrieve the object with access to the reviewing settings

can_comment (user)

can_review (user, check_state=False)

cfp

create_comment_endpoint = None
```

create_judgment_endpoint = None

```
create_review_endpoint = None
     delete_comment_endpoint = None
     edit_comment_endpoint = None
     edit_review_endpoint = None
     get delete comment url(comment)
     get last revision()
     get_revisions()
     get_save_comment_url (comment=None)
     get_save_judgment_url()
     get_save_review_url (group=None, review=None)
     is_in_final_state
     proposal_type = None
         A unique identifier to handle rendering differences between proposal types
     revisions enabled = True
         Whether there is support for multiple revisions per proposal or just one
class indico.modules.events.models.reviews.ProposalReviewMixin
     Bases: object
     Mixin for proposal reviews.
     Classes that represent a review of a proposal should extend this class (ex: AbstractReview, PaperReview).
     can_edit (user)
     group
     group_attr = None
         Object used to group reviews together
     group_proxy_cls
         Proxy class to provide the necessary properties and methods to the review grouping object
         alias of Proposal Group Proxy
     revision
     revision attr = None
         The revision object that the review refers to
     score
     timeline_item_type = 'review'
         A unique identifier to handle rendering differences between timeline items
class indico.modules.events.models.reviews.ProposalRevisionMixin
     Bases: object
     Properties and methods of a proposal revision.
     get_reviewed_for_groups (user, include_reviewed=False)
     get_reviewer_render_data(user)
     get reviews (group=None, user=None)
     get timeline(user=None)
```

proposal

proposal_attr = None

The attribute of the revision used to fetch the proposal object.

revisions enabled = True

Whether the reviewing process supports multiple revisions per proposal. If set to false it is assumed that the reviewing process supports only one revision per proposal.

```
class indico.modules.events.models.series.EventSeries(**kwargs)
```

Bases: sqlalchemy.orm.decl_api.Model

A series of events.

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwarqs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

id

The ID of the series

show links

Whether to show links to the other events in the same series on the main event page.

show_sequence_in_title

Whether to show the sequence number of an event in its title on category display pages and on the main event page.

```
class indico.modules.events.models.settings.EventSetting(**kwargs)
```

```
Bases: indico.core.settings.models.base.JSONSettingsBase, indico.modules.events.models.settings.EventSettingsMixin, sqlalchemy.orm.decl_api.Model
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwarqs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

event

event_id

id

module

name

```
settings_backref_name = 'settings'
```

value

```
class indico.modules.events.models.settings.EventSettingPrincipal(**kwargs)
```

Bases: indico.core.settings.models.base.PrincipalSettingsBase, indico.modules.events.models.settings.EventSettingsMixin, sqlalchemy.orm.decl_api.Model

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```
allow_category_roles = True
    allow_event_roles = True
    category role
    category_role_id
    email = None
    event
    event id
    event_role
    event_role_id
    extra_key_cols = ('event_id',)
    ip_network_group = None
    ip_network_group_id = None
    local_group
    local_group_id
    module
    multipass_group_name
    multipass_group_provider
    name
    principal_backref_name = 'in_event_settings_acls'
    registration_form = None
    registration_form_id = None
    settings_backref_name = 'settings_principals'
    type
    user
    user id
class indico.modules.events.models.settings.EventSettingsMixin
    Bases: object
    event = <RelationshipProperty at 0x7fbaff15acc0; no key>
    event_id = Column(None, Integer(), ForeignKey('events.events.id'), table=None, nullabl
    settings_backref_name = None
class indico.modules.events.models.static_list_links.StaticListLink(**kwargs)
    Bases: sqlalchemy.orm.decl_api.Model
```

Display configuration data used in static links to listing pages.

This allows users to share links to listing pages in events while preserving e.g. column/filter configurations.

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```
classmethod create (event, type_, data)
```

Create a new static list link.

If one exists with the same data, that link is used instead of creating a new one.

Parameters

created dt

- **event** the *Event* for which to create the link
- type the type of the link
- data the data to associate with the link

Returns the newly created *StaticListLink*

```
data
event
event_id
id
last_used_dt
classmethod load(event, type_, uuid)
Load the data associated with a link.
```

Parameters

- **event** the *Event* the link belongs to
- type the type of the link
- uuid the UUID of the link

Returns the link data or None if the link does not exist

type

uuid

Operations

```
indico.modules.events.operations. \textbf{clone\_event} \ (\textit{event}, \textit{n\_occurrence}, \textit{start\_dt}, \textit{cloners}, \textit{category} = \textit{None}, \textit{refresh\_users} = \textit{False})
```

Clone an event on a given date/time.

Runs all required cloners.

Parameters

- n_occurrence The 1-indexed number of the occurrence, if this is a "recurring" clone, otherwise 0
- **start_dt** The start datetime of the new event;
- **cloners** A set containing the names of all enabled cloners;

• **category** – The *Category* the new event will be created in.

Aparam refresh_users Whether *EventPerson* data should be updated from their linked *User* object indico.modules.events.operations.clone_into_event (*source_event*, target_event, clon-

ers)

Clone data into an existing event.

Runs all required cloners.

Parameters

- **source_event** The *Event* to clone data from;
- target_event The *Event* to clone data into;
- **cloners** A set containing the names of all enabled cloners.

Create a new event.

Parameters

- category The category in which to create the event
- event_type An EventType value
- data A dict containing data used to populate the event
- add_creator_as_manager Whether the creator (current user) should be added as a manager
- **features** A list of features that will be enabled for the event. If set, only those features will be used and the default feature set for the event type will be ignored.
- cloning Whether the event is created via cloning or not

```
indico.modules.events.operations.create_event_label(data)
indico.modules.events.operations.create_event_references(event, data)
indico.modules.events.operations.create reference type (data)
indico.modules.events.operations.create_reviewing_question(event,
                                                                             ques-
                                                                tion model,
                                                                wtf field cls,
                                                                            form,
                                                                data=None)
indico.modules.events.operations.delete_event_label(event_label)
indico.modules.events.operations.delete_reference_type(reference_type)
indico.modules.events.operations.delete_reviewing_question(question)
indico.modules.events.operations.lock_event (event)
indico.modules.events.operations.sort_reviewing_questions(questions,
                                                               new_positions)
indico.modules.events.operations.unlock_event(event)
indico.modules.events.operations.update_event(event, update_timetable=False, **data)
indico.modules.events.operations.update_event_label(event_label, data)
indico.modules.events.operations.update_event_protection(event, data)
```

139

```
indico.modules.events.operations.update_event_type(event, type_)
indico.modules.events.operations.update_reference_type (reference_type, data)
indico.modules.events.operations.update_reviewing_question(question, form)
Utilities
class indico.modules.events.util.ListGeneratorBase (event, entry_parent=None)
     Bases: object
     Base class for classes performing actions on Indico object lists.
          Parameters
               • event – The associated Event
               • entry_parent - The parent of the entries of the list. If it's None, the parent is assumed
                 to be the event itself.
     default_list_config = None
          The default list configuration dictionary
     endpoint = None
          The endpoint of the list management page
     entry_parent = None
         The parent object of the list items
     event = None
          The event the list is associated with
     flash_info_message (obj)
     generate static url()
          Return a URL with a uuid referring to the list's configuration.
     get_list_url (uuid=None, external=False)
          Return the URL of the list management page.
     list_link_type = None
          Unique list identifier
     static_items = None
          Columns that originate from the list item's properties, relationships etc, but not from user defined fields
          (e.g. registration/contribution fields)
     store_configuration()
         Load the filters from the request and store them in the session.
class indico.modules.events.util.ZipGeneratorMixin
     Bases: object
     Mixin for RHs that generate zip with files.
indico.modules.events.util.check_event_locked(rh, event, force=False)
indico.modules.events.util.check_permissions(event, field, allow_networks=False)
```

7.1. API reference

indico.modules.events.util.get_all_user_roles(event, user)

indico.modules.events.util.create_event_logo_tmp_file(event, tmpdir=None)

If *tmpdir* is specified, the logo file is created in there and a path relative to that directory is returned.

Create a temporary file with the event's logo.

```
indico.modules.events.util.get_event_from_url(url)
indico.modules.events.util.get_events_created_by(user, dt=None)
Get the IDs of events created by the user.
```

Parameters

- user A User
- dt Only include events taking place on/after that date

Returns A set of event ids

indico.modules.events.util.get_events_managed_by (user, dt=None) Get the IDs of events where the user has management privs.

Parameters

- user A User
- dt Only include events taking place on/after that date

Returns A set of event ids

```
\verb|indico.modules.events.util.get_events_with_linked_event_persons| (\textit{user},
```

Return a dict containing the event ids and role for all events where the user is a chairperson or (in case of a lecture) speaker.

Parameters

- user A User
- dt Only include events taking place on/after that date

```
indico.modules.events.util.get_field_values(form_data)
```

Split the form fields between custom and static.

```
indico.modules.events.util.get_object_from_args(args=None)
```

Retrieve an event object from request arguments.

This utility is meant to be used in cases where the same controller can deal with objects attached to various parts of an event which use different URLs to indicate which object to use.

Parameters args - The request arguments. If unspecified, request.view_args is used.

Returns An (object_type, event, object) tuple. The event is always the Event associated with the object. The object may be an *Event*, *Session*, *Contribution* or *SubContribution*. If the object does not exist, (object type, None, None) is returned.

```
indico.modules.events.util.get_random_color(event)
```

```
indico.modules.events.util.get_theme (event, override_theme_id=None)
```

Get the theme ID and whether it's an override.

This is useful for places where a user may specify a different timetable theme. If the override theme is not valid for the event, a message is flashed and an exception redirecting the user to the main event page is raised.

Raises BadRequest – if the override theme id is not valid

```
Returns a (theme_id, is_override) tuple
```

```
indico.modules.events.util.register_event_time_change(event)
```

Register a time-related change for an event.

This is an internal helper function used in the model to record changes of the start time or end time. The changes are exposed through the *track_time_changes* contextmanager function.

```
indico.modules.events.util.register_location_change(entry)
```

Register a location-related change for an event object.

This is an internal helper function used in the models to record changes of the location information. The changes are exposed through the *track_location_changes* contextmanager function.

```
indico.modules.events.util.register_time_change (entry)
    Register a time-related change for a timetable entry.
```

This is an internal helper function used in the models to record changes of the start time or duration. The changes are exposed through the *track_time_changes* contextmanager function.

```
indico.modules.events.util.serialize_event_for_ical (event, detail_level)
indico.modules.events.util.serialize_event_for_json_ld (event, full=False)
indico.modules.events.util.serialize_event_person (person)
    Serialize EventPerson to JSON-like object.
indico.modules.events.util.serialize_person_for_json_ld (person)
indico.modules.events.util.serialize_person_link (person_link)
    Serialize PersonLink to JSON-like object.
indico.modules.events.util.set_custom_fields (obj, custom_fields_data)
indico.modules.events.util.should_show_draft_warning (event)
indico.modules.events.util.track_location_changes()
    Track location changes of event objects.
```

This provides a list of changes while the context manager was active and also triggers *location_changed* signals.

If the code running inside the with block of this context manager raises an exception, no signals will be triggered.

```
indico.modules.events.util.track_time_changes (auto_extend=False, user=None) Track time changes of event objects.
```

This provides a list of changes while the context manager was active and also triggers *times_changed* signals.

If the code running inside the with block of this context manager raises an exception, no signals will be triggered.

Parameters

- auto_extend Whether entry parents will get their boundaries automatically extended or not. Passing 'start' will extend only start datetime, 'end' to extend only end datetime.
- **user** The *User* that will trigger time changes.

Update an object's ACL with a new list of principals.

Exactly one argument out of read_access, full_access and role must be specified.

Parameters

- obj The object to update. Must have acl_entries
- new_principals The set containing the new principals
- read_access Whether the read access ACL should be updated

- full_access Whether the full access ACL should be updated
- permission The role ACL that should be updated

Settings

```
class indico.modules.events.settings.EventACLProxy (proxy)
    Bases: indico.core.settings.proxy.ACLProxyBase
    Proxy class for event-specific ACL settings.
    add_principal (event, name, principal)
        Add a principal to an ACL.
```

Parameters

- event Event (or its ID)
- **name** Setting name
- principal A User or a GroupProxy

```
contains_user(event, name, user)
```

Check if a user is in an ACL.

To pass this check, the user can either be in the ACL itself or in a group in the ACL.

Parameters

- event Event (or its ID)
- name Setting name
- user A User

get (event, name)

Retrieves an ACL setting

Parameters

- event Event (or its ID)
- **name** Setting name

```
merge_users (target, source)
```

Replace all ACL user entries for source with target.

```
remove_principal (event, name, principal)
```

Remove a principal from an ACL.

Parameters

- event Event (or its ID)
- name Setting name
- principal A User or a GroupProxy

set (event, name, acl)

Replace an ACL with a new one.

Parameters

- event Event (or its ID)
- name Setting name

```
• acl – A set containing principals (users/groups)
class indico.modules.events.settings.EventSettingProperty (proxy,
                                                                                       name,
                                                                                                de-
                                                                             fault=<object object>,
                                                                             attr=None)
     Bases: indico.core.settings.proxy.SettingProperty
     attr = 'event'
class indico.modules.events.settings.EventSettingsProxy (module,
                                                                                     defaults=None,
                                                                           strict=True,
                                                                                        acls=None,
                                                                           converters=None)
     Bases: indico.core.settings.proxy.SettingsProxyBase
     Proxy class to access event-specific settings for a certain module.
     acl_proxy_class
          alias of EventACLProxy
     delete (event, *names)
          Delete settings.
              Parameters
                  • event – Event (or its ID)
                  • names – One or more names of settings to delete
     delete_all (event)
          Delete all settings.
              Parameters event – Event (or its ID)
     get (event, name, default=<object object>)
          Retrieve the value of a single setting.
              Parameters
                  • event – Event (or its ID)
                  • name – Setting name
                  • default – Default value in case the setting does not exist
              Returns The settings's value or the default value
     get all (event, no defaults=False)
          Retrieve all settings.
              Parameters
                  • event – Event (or its ID)
                  • no_defaults – Only return existing settings and ignore defaults.
              Returns Dict containing the settings
     query
          Return a query object filtering by the proxy's module.
     set (event, name, value)
          Set a single setting.
              Parameters
                  • event – Event (or its ID)
```

• **name** – Setting name

```
    value - Setting value; must be JSON-serializable
    set_multi(event, items)
        Set multiple settings at once.
    Parameters

            event - Event (or its ID)
            items - Dict containing the new settings

    class indico.modules.events.settings.ThemeSettingsProxy

            Bases: object
            defaults
            get_themes_for (event_type)
            settings
            themes

    indico.modules.events.settings.event_or_id(f)
```

7.1.2 Abstract

Todo: Docstrings (module, models, operations, utilities, settings)

Models

```
class indico.modules.events.abstracts.models.abstracts.Abstract(**kwargs)
    Bases: indico.modules.events.models.reviews.ProposalMixin, indico.modules.
    events.models.reviews.ProposalRevisionMixin, indico.core.db.sqlalchemy.
    descriptions.DescriptionMixin, indico.modules.events.contributions.models.
    contributions.CustomFieldsMixin, indico.modules.events.models.persons.
    AuthorsSpeakersMixin, sqlalchemy.orm.decl_api.Model
```

An abstract that can be associated to a Contribution.

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```
AUTHORS_SPEAKERS_DISPLAY_ORDER_ATTR = 'display_order_key_lastname'
accepted_contrib_type
accepted_contrib_type_id
accepted_track
accepted_track_id
call_for_proposals_attr = 'cfa'
can_access (user)
can_change_tracks (user, check_state=False)
```

```
can_comment (user, check_state=False)
can_convene(user)
can_edit (user)
can_judge (user, check_state=False)
can review(user, check state=False)
can see reviews (user)
can_withdraw (user, check_state=False)
candidate_contrib_types
candidate_tracks
create_comment_endpoint = 'abstracts.comment_abstract'
create_judgment_endpoint = 'abstracts.judge_abstract'
create_review_endpoint = 'abstracts.review_abstract'
data_by_field
default_render_mode = 2
delete_comment_endpoint = 'abstracts.delete_abstract_comment'
duplicate of
duplicate_of_id
edit_comment_endpoint = 'abstracts.edit_abstract_comment'
edit_review_endpoint = 'abstracts.edit_review'
edit track mode
event
event_id
field_values
    Data stored in abstract/contribution fields
friendly_id
get_reviewed_for_groups (user, include_reviewed=False)
get_timeline (user=None)
get_track_question_scores()
get_track_reviewing_state(track)
get_track_score(track)
id
is deleted
is_in_final_state
judge
    User who judged the abstract
judge id
    ID of the user who judged the abstract
```

```
judgment_comment
judgment_dt
locator
```

Define a smart locator property.

This behaves pretty much like a normal read-only property and the decorated function should return a dict containing the necessary data to build a URL for the object.

This decorator should usually be applied to a method named locator as this name is required for get_locator to find it automatically when just passing the object.

If you need more than one locator, you can define it like this:

```
@locator_property
def locator(self):
   return {...}
@locator.other
def locator(self):
    return {...}
```

The other locator can then be accessed by passing obj.locator.other to the code expecting an object with a locator.

```
log(*args, **kwargs)
    Log with prefilled metadata for the abstract.
marshmallow_aliases = {'_description': 'content'}
merged_into
merged_into_id
modification_ended
modified_by
modified_by_id
modified_dt
person_links
    Persons associated with this abstract
possible_render_modes = {<RenderMode.markdown: 2>}
proposal_type = 'abstract'
public_state
render_mode = 2
reset_state()
reviewed_for_tracks
reviewing_state
revisions_enabled = False
score
state
```

submission_comment

```
submitted_contrib_type
    submitted_contrib_type_id
    submitted_dt
    submitted_for_tracks
    submitter
        User who submitted the abstract
    submitter_id
        ID of the user who submitted the abstract
    title
    user_owns (user)
    uuid
    verbose_title
class indico.modules.events.abstracts.models.abstracts.AbstractPublicState
    Bases: indico.util.enum.RichIntEnum
    An enumeration.
    accepted = 3
    awaiting = -1
    duplicate = 6
    invited = 7
    merged = 5
    rejected = 4
    under_review = -2
    withdrawn = 2
class indico.modules.events.abstracts.models.abstracts.AbstractReviewingState
    Bases: indico.util.enum.RichIntEnum
    An enumeration.
    conflicting = 3
    in_progress = 1
    mixed = 5
    negative = 4
    not_started = 0
    positive = 2
class indico.modules.events.abstracts.models.abstracts.AbstractState
    Bases: indico.util.enum.RichIntEnum
    An enumeration.
    accepted = 3
    duplicate = 6
    invited = 7
```

```
merged = 5
    rejected = 4
    submitted = 1
    withdrawn = 2
class indico.modules.events.abstracts.models.abstracts.EditTrackMode
    Bases: int, indico.util.enum.IndicoEnum
    An enumeration.
    both = 1
    none = 0
    reviewed_for = 2
class indico.modules.events.abstracts.models.call_for_abstracts.CallForAbstracts(event)
    Bases: object
    Proxy class to facilitate access to the call for abstracts settings.
    allow_attachments
    allow_comments
    allow_contributors_in_comments
    allow_convener_judgment
    allow_convener_track_change
    allow_editing
    announcement
    can_edit_abstracts(user)
    can_submit_abstracts(user)
    close()
    contribution_submitters
    end dt
    has_ended
    has_started
    is_open
    is_scheduled
    judgment_instructions
    modification_end_dt
    modification_ended
    open()
    rating_range
    reviewing_instructions
    schedule (start_dt, end_dt, modification_end_dt)
```

start_dt

submission instructions

```
class indico.modules.events.abstracts.models.comments.AbstractComment (**kwargs)
    Bases:    indico.modules.events.models.reviews.ProposalCommentMixin, indico.
    core.db.sqlalchemy.review_comments.ReviewCommentMixin, sqlalchemy.orm.
    decl_api.Model
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwarqs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```
abstract
abstract_id
can_edit(user)
can_view(user)
created_dt
id
is_deleted
locator
Define a smart locator property.
```

This behaves pretty much like a normal read-only property and the decorated function should return a dict

This decorator should usually be applied to a method named locator as this name is required for *get_locator* to find it automatically when just passing the object.

If you need more than one locator, you can define it like this:

containing the necessary data to build a URL for the object.

```
@locator_property
def locator(self):
    return {...}

@locator.other
def locator(self):
    return {...}
```

The other locator can then be accessed by passing obj.locator.other to the code expecting an object with a locator.

```
marshmallow_aliases = {'_text': 'text'}
modified_by
modified_by_id
modified_dt
render_mode = 2
user
user_backref_name = 'abstract_comments'
user_id
user_modified_backref_name = 'modified_abstract_comments'
```

```
visibility
class indico.modules.events.abstracts.models.email_logs.AbstractEmailLogEntry(**kwargs)
     Bases: sqlalchemy.orm.decl_api.Model
     A simple constructor that allows initialization from kwargs.
     Sets attributes on the constructed instance using the names and values in kwarqs.
     Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any
     mapped columns or relationships.
     abstract
     abstract_id
     body
     classmethod create_from_email(email_data, email_tpl, user=None)
          Create a new log entry from the data used to send an email.
              Parameters
                  • email_data - email data as returned from make_email
                  • email_tpl - the abstract email template that created the email
                  • user – the user who performed the action causing the notification
     data
     email_template
     email_template_id
     id
     recipients
     sent_dt
     subject
     user
     user id
class indico.modules.events.abstracts.models.email_templates.AbstractEmailTemplate(**kwargs)
     Bases: sqlalchemy.orm.decl_api.Model
     An email template for abstracts notifications.
     A simple constructor that allows initialization from kwargs.
     Sets attributes on the constructed instance using the names and values in kwarqs.
     Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any
     mapped columns or relationships.
     body
          The body of the template
     event
     event_id
     extra cc emails
```

List of extra email addresses to be added as CC in the email

id

include authors

Whether to include authors' email addresses as To for emails

include coauthors

Whether to include co-authors' email addresses as CC for emails

include submitter

Whether to include the submitter's email address as To for emails

locator

Define a smart locator property.

This behaves pretty much like a normal read-only property and the decorated function should return a dict containing the necessary data to build a URL for the object.

This decorator should usually be applied to a method named locator as this name is required for *get_locator* to find it automatically when just passing the object.

If you need more than one locator, you can define it like this:

```
@locator_property
def locator(self):
    return {...}

@locator.other
def locator(self):
    return {...}
```

The other locator can then be accessed by passing obj.locator.other to the code expecting an object with a locator.

position

The relative position of the template in the list of templates

reply_to_address

The address to use as Reply-To in the email

rules

Conditions need to be met to send the email

stop_on_match

Whether to stop checking the rest of the conditions when a match is found

subject

The subject of the email

title

ContributionFieldValueBase

Store a field values related to abstracts.

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

abstract_id

```
contribution field
     contribution_field_backref_name = 'abstract_values'
     contribution_field_id
     data
class indico.modules.events.abstracts.models.files.AbstractFile(**kwargs)
           indico.core.storage.models.StoredFileMixin, sqlalchemy.orm.decl_api.
     Model
     A simple constructor that allows initialization from kwargs.
     Sets attributes on the constructed instance using the names and values in kwargs.
     Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any
     mapped columns or relationships.
     abstract
     abstract_id
     add_file_date_column = False
     content_type
         The MIME type of the file.
     created_dt = None
     extension
         The extension of the file.
     filename
         The name of the file.
     id
     locator
     md5
         An MD5 hash of the file.
         Automatically assigned when save() is called.
     size
         The size of the file (in bytes).
         Automatically assigned when save() is called.
     storage backend
     storage_file_id
class indico.modules.events.abstracts.models.persons.AbstractPersonLink(*args,
                                                                                        **kwargs)
     Bases: indico.modules.events.models.persons.PersonLinkBase
     Association between EventPerson and Abstract.
     abstract id
     author_type
     display_order
     id
     is_speaker
```

locator

Define a smart locator property.

This behaves pretty much like a normal read-only property and the decorated function should return a dict containing the necessary data to build a URL for the object.

This decorator should usually be applied to a method named locator as this name is required for *get_locator* to find it automatically when just passing the object.

If you need more than one locator, you can define it like this:

```
@locator_property
def locator(self):
    return {...}

@locator.other
def locator(self):
    return {...}
```

The other locator can then be accessed by passing obj.locator.other to the code expecting an object with a locator.

```
person
    person_id
    person_link_backref_name = 'abstract_links'
    person_link_unique_columns = ('abstract_id',)

class indico.modules.events.abstracts.models.review_questions.AbstractReviewQuestion(**kwargases: indico.core.db.sqlalchemy.review_questions.ReviewQuestionMixin, sqlalchemy.orm.decl_api.Model
```

A simple constructor that allows initialization from kwargs.

object_relationship_name = 'abstract'

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```
description
event
event_backref_name = 'abstract_review_questions'
event_id
field
field_data
field_type
id
is_deleted
is_required
locator
    Define a smart locator property.
```

This behaves pretty much like a normal read-only property and the decorated function should return a dict containing the necessary data to build a URL for the object.

This decorator should usually be applied to a method named locator as this name is required for *get_locator* to find it automatically when just passing the object.

If you need more than one locator, you can define it like this:

```
@locator_property
def locator(self):
    return {...}

@locator.other
def locator(self):
    return {...}
```

The other locator can then be accessed by passing obj.locator.other to the code expecting an object with a locator.

position

title

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwarqs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

id

```
question
```

```
question class
```

```
\begin{array}{ll} \textbf{alias} & \textbf{of} & \textit{indico.modules.events.abstracts.models.review\_questions.} \\ \textbf{AbstractReviewQuestion} \end{array}
```

question_id

review

review class

```
alias of indico.modules.events.abstracts.models.reviews.AbstractReview
```

review_id

value

```
class indico.modules.events.abstracts.models.reviews.AbstractAction
    Bases: indico.util.enum.RichIntEnum
```

An enumeration.

```
accept = 1
```

```
change_tracks = 3
```

```
mark_as_duplicate = 4
```

```
merge = 5
```

```
reject = 2
```

Most to least restrictive visibility for abstract comments.

```
contributors = 4
conveners = 2
judges = 1
reviewers = 3
users = 5
```

class indico.modules.events.abstracts.models.reviews.AbstractReview(**kwargs)

Bases: indico.modules.events.models.reviews.ProposalReviewMixin, indico.core.db.sqlalchemy.descriptions.RenderModeMixin, sqlalchemy.orm.decl_api.Model

An abstract review, emitted by a reviewer.

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```
abstract
abstract_id
can_edit(user, check_state=False)
can_view(user)
comment
created_dt
default_render_mode = 2
group_attr = 'track'
id
locator
```

Define a smart locator property.

This behaves pretty much like a normal read-only property and the decorated function should return a dict containing the necessary data to build a URL for the object.

This decorator should usually be applied to a method named locator as this name is required for *get_locator* to find it automatically when just passing the object.

If you need more than one locator, you can define it like this:

```
@locator_property
def locator(self):
    return {...}

@locator.other
def locator(self):
    return {...}
```

The other locator can then be accessed by passing obj.locator.other to the code expecting an object with a locator.

```
marshmallow_aliases = {'_comment':
                                    'comment'}
modified_dt
possible_render_modes = {<RenderMode.markdown: 2>}
proposed_action
proposed_contribution_type
proposed_contribution_type_id
proposed_related_abstract
proposed_related_abstract_id
proposed_tracks
render_mode = 2
revision attr = 'abstract'
score
track
track_id
user
user_id
visibility
```

Operations

```
indico.modules.events.abstracts.operations.add_abstract_files(abstract,
                                                                                files,
                                                                      log_action=True)
indico.modules.events.abstracts.operations.close_cfa(event)
indico.modules.events.abstracts.operations.create_abstract(event,
                                                                                 ab-
                                                                   stract data,
                                                                                 cus-
                                                                   tom_fields_data=None,
                                                                   send notifications=False,
                                                                   submitter=None,
                                                                   is_invited=False)
indico.modules.events.abstracts.operations.create_abstract_comment(abstract,
                                                                            ment_data)
indico.modules.events.abstracts.operations.create_abstract_review(abstract,
                                                                           track,
                                                                           user,
                                                                                  re-
                                                                           view_data,
                                                                           ques-
                                                                           tions_data)
indico.modules.events.abstracts.operations.delete_abstract(abstract,
                                                                   delete_contrib=False)
indico.modules.events.abstracts.operations.delete_abstract_comment(comment)
```

```
indico.modules.events.abstracts.operations.delete_abstract_files(abstract,
                                                                        files)
indico.modules.events.abstracts.operations.judge_abstract(abstract, abstract_data,
                                                                judgment, judge, con-
                                                                trib_session=None,
                                                                merge_persons=False,
                                                                send_notifications=False)
indico.modules.events.abstracts.operations.open_cfa(event)
indico.modules.events.abstracts.operations.reset_abstract_state(abstract)
indico.modules.events.abstracts.operations.schedule_cfa(event, start_dt, end_dt,
                                                              modification_end_dt)
indico.modules.events.abstracts.operations.update_abstract(abstract,
                                                                               ab-
                                                                               CUS-
                                                                 tom_fields_data=None)
indico.modules.events.abstracts.operations.update_abstract_comment(comment,
                                                                          ment_data)
indico.modules.events.abstracts.operations.update_abstract_review (review, re-
                                                                         view_data,
                                                                         ques-
                                                                         tions_data)
tracks)
indico.modules.events.abstracts.operations.withdraw_abstract(abstract)
Utilities
indico.modules.events.abstracts.util.build_default_email_template(event,
                                                                         tpl_type)
    Build a default e-mail template based on a notification type provided by the user.
indico.modules.events.abstracts.util.can create invited abstracts(event)
indico.modules.events.abstracts.util.clear_boa_cache (event)
    Delete the cached book of abstract.
indico.modules.events.abstracts.util.create_boa(event)
    Create the book of abstracts if necessary.
        Returns The path to the PDF file
indico.modules.events.abstracts.util.create boa tex(event)
    Create the book of abstracts as a LaTeX archive.
        Returns A BytesIO containing the zip file.
indico.modules.events.abstracts.util.create mock abstract(event)
    Create a mock abstract that can be used in previews.
    Brace for geek references.
indico.modules.events.abstracts.util.filter_field_values(fields,
                                                                        can_manage,
                                                               owns_abstract)
```

Generate a spreadsheet data from a given abstract list.

Parameters

- abstracts The list of abstracts to include in the file
- **static_item_ids** The abstract properties to be used as columns
- dynamic items Contribution fields as extra columns

```
indico.modules.events.abstracts.util.get_events_with_abstract_persons(user, dt=None)
```

Return a dict of event ids and the abstract submission related roles the user has in that event.

Parameters

- user A User
- dt Only include events taking place on/after that date

```
indico.modules.events.abstracts.util.get\_events\_with\_abstract\_reviewer\_convener (user, dt=None)
```

Return a dict of event ids and the abstract reviewing related roles the user has in that event.

Parameters

- user A User
- dt Only include events taking place on/after that date

Get the numbers of abstracts per track for a specific user.

Note that this does not take into account if the user is a reviewer for a track; it just checks whether the user has reviewed an abstract in a track or not.

Returns A dict mapping tracks to dicts containing the counts.

```
indico.modules.events.abstracts.util.get_user_abstracts(event, user)
   Get the list of abstracts where the user is a reviewer/convener.

indico.modules.events.abstracts.util.get_user_tracks(event, user)
   Get the list of tracks where the user is a reviewer/convener.

indico.modules.events.abstracts.util.get_visible_reviewed_for_tracks(abstract, user)

indico.modules.events.abstracts.util.has_user_tracks(event, user)

indico.modules.events.abstracts.util.make_abstract_form(event, user, notification_option=False, management=False, invited=False)
```

Extend the abstract WTForm to add the extra fields.

Each extra field will use a field named custom_ID.

Parameters

- **event** The *Event* for which to create the abstract form.
- **user** The user who is going to use the form.

- notification_option Whether to add a field to the form to disable triggering notifications for the abstract submission.
- management Whether the form is used in the management area
- invited Whether the form is used to create an invited abstract

Returns An AbstractForm subclass.

Placeholders

```
class indico.modules.events.abstracts.placeholders.EventTitlePlaceholder
    Bases: indico.util.placeholders.Placeholder
    description = 1'The title of the event'
    name = 'event_title'
    classmethod render(abstract)
         Convert the placeholder to a string.
         When a placeholder contains HTML that should not be escaped, the returned value should be returned as
```

a markupsafe. Markup instance instead of a plain string.

Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwarqs.

Parameters kwargs – arguments specific to the placeholder's context

```
class indico.modules.events.abstracts.placeholders.EventURLPlaceholder
    Bases: indico.util.placeholders.Placeholder
    description = 1'The URL of the event'
    name = 'event url'
    classmethod render(abstract)
        Convert the placeholder to a string.
```

When a placeholder contains HTML that should not be escaped, the returned value should be returned as a markupsafe. Markup instance instead of a plain string.

Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwarqs.

Parameters kwargs – arguments specific to the placeholder's context

```
class indico.modules.events.abstracts.placeholders.AbstractIDPlaceholder
    Bases: indico.util.placeholders.Placeholder
    description = 1'The ID of the abstract'
    name = 'abstract_id'
    classmethod render(abstract)
        Convert the placeholder to a string.
```

When a placeholder contains HTML that should not be escaped, the returned value should be returned as a markupsafe. Markup instance instead of a plain string.

Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwarqs.

Parameters kwargs – arguments specific to the placeholder's context

```
class indico.modules.events.abstracts.placeholders.AbstractTitlePlaceholder
    Bases: indico.util.placeholders.Placeholder
```

description = 1'The title of the abstract'

```
name = 'abstract_title'
```

classmethod render(abstract)

Convert the placeholder to a string.

When a placeholder contains HTML that should not be escaped, the returned value should be returned as a markupsafe. Markup instance instead of a plain string.

Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwargs.

Parameters kwargs – arguments specific to the placeholder's context

class indico.modules.events.abstracts.placeholders.AbstractURLPlaceholder
 Bases: indico.util.placeholders.Placeholder

advanced = True

description = 1'The direct URL of the abstract'

name = 'abstract_url'

classmethod render (abstract)

Convert the placeholder to a string.

When a placeholder contains HTML that should not be escaped, the returned value should be returned as a markupsafe. Markup instance instead of a plain string.

Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwargs.

Parameters kwargs – arguments specific to the placeholder's context

description = 1'The link to submit an invited abstract'

name = 'invitation url'

classmethod render(abstract)

Convert the placeholder to a string.

When a placeholder contains HTML that should not be escaped, the returned value should be returned as a markupsafe. Markup instance instead of a plain string.

Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwargs.

Parameters kwargs – arguments specific to the placeholder's context

description = 1'The name of the destination track'

name = 'abstract_track'

classmethod render(abstract)

Convert the placeholder to a string.

When a placeholder contains HTML that should not be escaped, the returned value should be returned as a markupsafe. Markup instance instead of a plain string.

Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwarqs.

Parameters kwargs – arguments specific to the placeholder's context

```
description = 1'The name of the destination session'
     name = 'abstract session'
     classmethod render(abstract)
          Convert the placeholder to a string.
          When a placeholder contains HTML that should not be escaped, the returned value should be returned as
          a markupsafe. Markup instance instead of a plain string.
          Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwarqs.
             Parameters kwargs – arguments specific to the placeholder's context
class indico.modules.events.abstracts.placeholders.PrimaryAuthorsPlaceholder
     Bases: indico.util.placeholders.Placeholder
     description = 1'The names of the primary authors (separated by commas)'
     name = 'primary_authors'
     classmethod render (abstract)
          Convert the placeholder to a string.
          When a placeholder contains HTML that should not be escaped, the returned value should be returned as
          a markupsafe. Markup instance instead of a plain string.
          Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwargs.
             Parameters kwargs – arguments specific to the placeholder's context
class indico.modules.events.abstracts.placeholders.CoAuthorsPlaceholder
     Bases: indico.util.placeholders.Placeholder
     description = 1'The names of the co-authors (separated by commas)'
     name = 'co authors'
     classmethod render (abstract)
          Convert the placeholder to a string.
          When a placeholder contains HTML that should not be escaped, the returned value should be returned as
          a markupsafe. Markup instance instead of a plain string.
          Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwarqs.
             Parameters kwargs – arguments specific to the placeholder's context
class indico.modules.events.abstracts.placeholders.SubmitterNamePlaceholder
     Bases: indico.util.placeholders.Placeholder
     description = 1'The full name of the submitter, no title'
     name = 'submitter name'
     classmethod render(abstract)
          Convert the placeholder to a string.
          When a placeholder contains HTML that should not be escaped, the returned value should be returned as
          a markupsafe. Markup instance instead of a plain string.
          Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwarqs.
             Parameters kwargs – arguments specific to the placeholder's context
```

Bases: indico.util.placeholders.Placeholder

class indico.modules.events.abstracts.placeholders.SubmitterFirstNamePlaceholder

```
advanced = True
description = 1'The first name of the submitter'
name = 'submitter_first_name'
classmethod render(abstract)
```

Convert the placeholder to a string.

When a placeholder contains HTML that should not be escaped, the returned value should be returned as a markupsafe. Markup instance instead of a plain string.

Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwarqs.

Parameters kwargs – arguments specific to the placeholder's context

```
advanced = True
description = 1'The last name of the submitter'
name = 'submitter_last_name'
classmethod render(abstract)
```

Convert the placeholder to a string.

When a placeholder contains HTML that should not be escaped, the returned value should be returned as a markupsafe. Markup instance instead of a plain string.

Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwarqs.

Parameters kwargs – arguments specific to the placeholder's context

 $\textbf{class} \text{ indico.} \texttt{modules.} \textbf{events.} \textbf{abstracts.} \textbf{placeholders.} \textbf{SubmitterTitlePlaceholder} \\ \textbf{Bases:} \textbf{indico.util.} \textbf{placeholders.} \textbf{Placeholder}$

```
description = l'The title of the submitter (Dr, Prof., etc...)'
name = 'submitter_title'
classmethod render(abstract)
```

Convert the placeholder to a string.

When a placeholder contains HTML that should not be escaped, the returned value should be returned as a markupsafe. Markup instance instead of a plain string.

Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwargs.

Parameters kwargs – arguments specific to the placeholder's context

 $\textbf{class} \ \, \textbf{indico.modules.events.abstracts.placeholders.} \textbf{TargetAbstractIDPlaceholder} \\ \textbf{Bases:} \ \, \textbf{indico.util.placeholders.Placeholder} \\$

```
description = 1'The ID of the target abstract (merge or duplicate)'
name = 'target_abstract_id'
classmethod render(abstract)
```

Convert the placeholder to a string.

When a placeholder contains HTML that should not be escaped, the returned value should be returned as a markupsafe. Markup instance instead of a plain string.

Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwargs.

Parameters kwargs – arguments specific to the placeholder's context

```
Bases: indico.util.placeholders.Placeholder
     description = 1'The title of the target abstract (merge or duplicate)'
     name = 'target_abstract_title'
     classmethod render(abstract)
         Convert the placeholder to a string.
         When a placeholder contains HTML that should not be escaped, the returned value should be returned as
         a markupsafe. Markup instance instead of a plain string.
         Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwarqs.
             Parameters kwargs – arguments specific to the placeholder's context
class indico.modules.events.abstracts.placeholders.TargetSubmitterNamePlaceholder
     Bases: \verb|indico.util.placeholders.Placeholder|\\
     advanced = True
     description = 1"The full name of the target abstract's submitter, no title (merge or d
     name = 'target submitter name'
     classmethod render(abstract)
         Convert the placeholder to a string.
         When a placeholder contains HTML that should not be escaped, the returned value should be returned as
         a markupsafe. Markup instance instead of a plain string.
         Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwargs.
             Parameters kwargs – arguments specific to the placeholder's context
class indico.modules.events.abstracts.placeholders.TargetSubmitterFirstNamePlaceholder
     Bases: indico.util.placeholders.Placeholder
     advanced = True
     description = 1"The first name of the target abstract's submitter (merge or duplicate)
     name = 'target_submitter_first_name'
     classmethod render(abstract)
         Convert the placeholder to a string.
         When a placeholder contains HTML that should not be escaped, the returned value should be returned as
         a markupsafe. Markup instance instead of a plain string.
         Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwargs.
             Parameters kwargs – arguments specific to the placeholder's context
class indico.modules.events.abstracts.placeholders.TargetSubmitterLastNamePlaceholder
     Bases: indico.util.placeholders.Placeholder
     advanced = True
     description = 1"The last name of the target abstract's submitter (merge or duplicate)"
     name = 'target_submitter_last_name'
     classmethod render (abstract)
         Convert the placeholder to a string.
```

class indico.modules.events.abstracts.placeholders.TargetAbstractTitlePlaceholder

When a placeholder contains HTML that should not be escaped, the returned value should be returned as a markupsafe. Markup instance instead of a plain string.

Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwarqs.

Parameters kwargs – arguments specific to the placeholder's context

```
description = l'Comments written by event organizer (upon final decision)'
name = 'judgment_comment'
```

classmethod render(abstract)

Convert the placeholder to a string.

When a placeholder contains HTML that should not be escaped, the returned value should be returned as a markupsafe. Markup instance instead of a plain string.

Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwargs.

Parameters kwargs – arguments specific to the placeholder's context

```
description = 1'The contribution type that is associated to the abstract'
name = 'contribution_type'
```

classmethod render (abstract)

Convert the placeholder to a string.

When a placeholder contains HTML that should not be escaped, the returned value should be returned as a markupsafe. Markup instance instead of a plain string.

Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwarqs.

Parameters kwargs – arguments specific to the placeholder's context

```
advanced = True
description = 1'Contribution URL'
name = 'contribution_url'
classmethod render(abstract)
```

Convert the placeholder to a string.

When a placeholder contains HTML that should not be escaped, the returned value should be returned as a markupsafe. Markup instance instead of a plain string.

Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwargs.

Parameters kwargs – arguments specific to the placeholder's context

Settings

```
class indico.modules.events.abstracts.settings.AllowEditingType
    Bases: indico.util.enum.RichEnum
```

An enumeration.

```
submitter = 'submitter'
    submitter all = 'submitter all'
    submitter_authors = 'submitter_authors'
    submitter_primary = 'submitter_primary'
class indico.modules.events.abstracts.settings.BOACorrespondingAuthorType
    Bases: indico.util.enum.RichEnum
    An enumeration.
    none = 'none'
    speakers = 'speakers'
    submitter = 'submitter'
class indico.modules.events.abstracts.settings.BOALinkFormat
    Bases: indico.util.enum.RichEnum
    LaTeX book of abstracts link format setting.
    value is a 2-tuple of strings: first is the hyperref option to use second sets additional tex commands
    colorlinks = ('[colorlinks]', '')
    frame = ('', '')
    unstyled = ('[hidelinks]', '')
class indico.modules.events.abstracts.settings.BOASortField
    Bases: indico.util.enum.RichEnum
    An enumeration.
    abstract title = 'title'
    board_number = 'board_number'
    id = 'id'
    schedule = 'schedule'
    schedule_board_number = 'schedule_board_number'
    session_board_number = 'session_board_number'
    session_schedule_board = 'session_schedule_board'
    session_title = 'session_title'
    speaker = 'speaker'
class indico.modules.events.abstracts.settings.SubmissionRightsType
    Bases: indico.util.enum.RichEnum
    An enumeration.
    all = 'all'
    speakers = 'speakers'
```

7.1.3 Agreement

Todo: Docstrings (module, models, utilities)

Models

```
class indico.modules.events.agreements.models.agreements.Agreement(**kwargs)
     Bases: sqlalchemy.orm.decl_api.Model
     Agreements between a person and Indico.
     A simple constructor that allows initialization from kwargs.
     Sets attributes on the constructed instance using the names and values in kwargs.
     Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any
     mapped columns or relationships.
     accept (from_ip, reason=None, on_behalf=False)
     accepted
     attachment
          Attachment
     attachment_filename
          Filename and extension of the attachment
     belongs_to(person)
     static create_from_data(event, type_, person)
     data
          Definition-specific data of the agreement
     definition
     event
          The Event this agreement is associated with
     event id
          ID of the event
     id
          Entry ID
     identifier
          Unique identifier within the event and type
     is_orphan()
     locator
     pending
     person_email
```

Email of the person agreeing

Full name of the person agreeing

person_name

```
reason
         Explanation as to why the agreement was accepted/rejected
     reject (from_ip, reason=None, on_behalf=False)
     rejected
     render (form, **kwargs)
     reset()
     signed_dt
         The date and time the agreement was signed
     signed_from_ip
         The IP from which the agreement was signed
     signed_on_behalf
     state
         A AgreementState
     timestamp
         The date and time the agreement was created
     type
         Type of agreement
     user
         The user this agreement is linked to
     user id
         ID of a linked user
     uuid
         Entry universally unique ID
class indico.modules.events.agreements.models.agreements.AgreementState
     Bases: indico.util.enum.RichIntEnum
     An enumeration.
     accepted = 1
     accepted_on_behalf = 3
         agreement accepted on behalf of the person
     pending = 0
     rejected = 2
     rejected_on_behalf = 4
         agreement rejected on behalf of the person
Utilities
indico.modules.events.agreements.util.get_agreement_definitions()
indico.modules.events.agreements.util.send_new_agreements(event,
                                                                               name,
                                                                                       peo-
                                                                                 email_body,
                                                                       cc_addresses,
                                                                       from_address)
     Create and send agreements for a list of people on a given event.
```

Parameters

- event The *Event* associated with the agreement
- name The agreement type matcing a AgreementDefinition name
- **people** The list of people for whom agreements will be created
- email body The body of the email
- cc addresses Email addresses to send CCs to
- from_address Email address of the sender

Placeholders

```
class indico.modules.events.agreements.placeholders.AgreementLinkPlaceholder
    Bases: indico.util.placeholders.Placeholder

description = l'Link to the agreement page'

name = 'agreement_link'

classmethod render(definition, agreement)
    Convert the placeholder to a string.
```

When a placeholder contains HTML that should not be escaped, the returned value should be returned as a markupsafe. Markup instance instead of a plain string.

Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwargs.

Parameters kwargs – arguments specific to the placeholder's context

```
required = True
```

```
class indico.modules.events.agreements.placeholders.PersonNamePlaceholder
    Bases: indico.util.placeholders.Placeholder
```

```
description = 1'Name of the person'
name = 'person_name'
classmethod render(definition, agreement)
```

Convert the placeholder to a string.

When a placeholder contains HTML that should not be escaped, the returned value should be returned as a markupsafe. Markup instance instead of a plain string.

Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwargs.

Parameters kwargs – arguments specific to the placeholder's context

7.1.4 Contribution

Todo: Docstrings (module, models, operations, utilities)

Models

```
class indico.modules.events.contributions.models.contributions.Contribution(**kwargs)
             indico.core.db.sqlalchemy.searchable.SearchableTitleMixin, indico.
    core.db.sqlalchemy.descriptions.SearchableDescriptionMixin,
                                                                                indico.
    core.db.sqlalchemy.protection.ProtectionManagersMixin,
                                                                       indico.core.db.
    sqlalchemy.locations.LocationMixin, indico.core.db.sqlalchemy.attachments.
    AttachedItemsMixin,
                               indico.core.db.sqlalchemy.notes.AttachedNotesMixin,
    indico.modules.events.models.persons.PersonLinkDataMixin, indico.modules.
    events.models.persons.AuthorsSpeakersMixin,
                                                               indico.modules.events.
    contributions.models.contributions.CustomFieldsMixin,
                                                                       sqlalchemy.orm.
    decl api.Model
    ATTACHMENT FOLDER ID COLUMN = 'contribution id'
    PRELOAD_EVENT_ATTACHED_ITEMS = True
    PRELOAD_EVENT_NOTES = True
    abstract
    abstract id
    access_key = None
    acl_entries
    classmethod allocate_friendly_ids (event, n)
        Allocate n Contribution friendly_ids.
        This is needed so that we can allocate all IDs in one go. Not doing so could result in DB deadlocks. All
        operations that create more than one contribution should use this method.
            Parameters
               • event - the Event in question
               • n – the number of ids to pre-allocate
    allow_relationship_preloading = True
    allowed types for editable
    board number
                                           allow_admin=True,
                                                              check_parent=True,
    can_manage (user,
                         permission=None,
                                                                                  ex-
                 plicit_permission=False)
        Check if the user can manage the object.
            Parameters
```

- user The *User* to check. May be None if the user is not logged in.
- allow_admin If admin users should always have access
- check_parent If the parent object should be checked. In this case the permission is ignored; only full management access is inherited to children.
- explicit_permission If the specified permission should be checked explicitly instead of short-circuiting the check for Indico admins or managers. When this option is set to True, the values of allow_admin and check_parent are ignored. This also applies if permission is None in which case this argument being set to True is equivalent to allow_admin and check_parent being set to False.

Param permission: The management permission that is needed for the check to succeed. If not specified, full management privs are required. May be set to the string 'ANY' to check if the user has any management privileges. If the user has *full_access* privileges, he's assumed to have all possible permissions.

```
can_submit_proceedings (user)
```

Whether the user can submit editables/papers.

code

```
default_render_mode = 2
disallowed_protection_modes = frozenset()
duration
duration_display
```

The displayed duration of the contribution.

This is the duration of the poster session if applicable, otherwise the duration of the contribution itself.

duration_poster

enabled_editables

Return all submitted editables with enabled types.

end dt

end_dt_display

The displayed end time of the contribution.

This is the end time of the poster session if applicable, otherwise the end time of the contribution itself.

end_dt_poster

event

event_id

field_values

Data stored in abstract/contribution fields

friendly_id

The human-friendly ID for the contribution

get_editable (editable_type)

Get the editable of the given type.

get_non_inheriting_objects()

Get a set of child objects that do not inherit protection.

has_published_editables

id

```
inherit_location
```

inheriting_have_acl = True

is deleted

is_paper_reviewer(user)

is_scheduled

is_user_associated (user, check_abstract=False)

keywords

```
location_backref_name = 'contributions'
```

location_parent

The parent object to consult if the location is inherited.

locator

Define a smart locator property.

This behaves pretty much like a normal read-only property and the decorated function should return a dict containing the necessary data to build a URL for the object.

This decorator should usually be applied to a method named locator as this name is required for get_locator to find it automatically when just passing the object.

If you need more than one locator, you can define it like this:

```
@locator_property
def locator(self):
   return {...}
@locator.other
def locator(self):
   return {...}
```

The other locator can then be accessed by passing obj.locator.other to the code expecting an object with a locator.

```
log(*args, **kwargs)
```

Log with prefilled metadata for the contribution.

```
note
own_address
own_no_access_contact = None
own_room
own_room_id
own_room_name
own_venue
own_venue_id
own venue name
paper
paper_content_reviewers
    Paper content reviewers
paper_judges
    Paper reviewing judges
paper_layout_reviewers
    Paper layout reviewers
pending_paper_files
    Paper files not submitted for reviewing
person_links
    Persons associated with this contribution
```

7.1. API reference 171

possible_render_modes = {<RenderMode.html: 1>, <RenderMode.markdown:</pre>

```
classmethod preload_acl_entries (event)
     protection_mode
     protection_parent
         The parent object to consult for ProtectionMode.inheriting.
         External references associated with this contribution
     render_mode
     session
     session_block
     session_block_id
     session_id
     slug
     start dt
     start_dt_display
         The displayed start time of the contribution.
         This is the start time of the poster session if applicable, otherwise the start time of the contribution itself.
     start_dt_poster
     subcontribution_count
     subcontributions
     submitters
     title
     track
     track_id
     type
     type_id
     verbose_title
class indico.modules.events.contributions.models.contributions.CustomFieldsMixin
     Bases: object
     Methods to process custom field data.
     get_field_value (field_id, raw=False)
     set_custom_field (field_id, field_value)
class indico.modules.events.contributions.models.fields.ContributionField(**kwargs)
     Bases: sqlalchemy.orm.decl_api.Model
     A simple constructor that allows initialization from kwargs.
     Sets attributes on the constructed instance using the names and values in kwargs.
     Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any
     mapped columns or relationships.
     description
```

```
event
event_id
field
field_data
field_type
filter_choices
id
is_active
is_public
is_required
is_user_editable
legacy_id
locator
```

Define a smart locator property.

This behaves pretty much like a normal read-only property and the decorated function should return a dict containing the necessary data to build a URL for the object.

This decorator should usually be applied to a method named locator as this name is required for *get_locator* to find it automatically when just passing the object.

If you need more than one locator, you can define it like this:

```
@locator_property
def locator(self):
    return {...}

@locator.other
def locator(self):
    return {...}
```

The other locator can then be accessed by passing obj.locator.other to the code expecting an object with a locator.

```
mgmt_field
position
title
visibility
```

ContributionFieldValueBase

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

contribution_field

```
contribution_field_backref_name = 'contribution_values'
    contribution field id
    contribution_id
    data
class indico.modules.events.contributions.models.fields.ContributionFieldValueBase(**kwargs)
    Bases: sqlalchemy.orm.decl_api.Model
    A simple constructor that allows initialization from kwargs.
    Sets attributes on the constructed instance using the names and values in kwargs.
    Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any
    mapped columns or relationships.
    contribution_field = <RelationshipProperty at 0x7fbaff9f6c40; no key>
    contribution_field_backref_name = None
        The name of the backref on the ContributionField
    contribution_field_id
    data = Column(None, JSONB(astext_type=Text()), table=None, nullable=False)
    friendly data
class indico.modules.events.contributions.models.fields.ContributionFieldVisibility
    Bases: indico.util.enum.RichIntEnum
    An enumeration.
    managers_and_submitters = 2
    managers_only = 3
    public = 1
class indico.modules.events.contributions.models.persons.AuthorType
    Bases: int, indico.util.enum.IndicoEnum
    An enumeration.
    get_highest = <bound method AuthorType.get_highest of <enum 'AuthorType'>>
    none = 0
    primary = 1
    secondary = 2
class indico.modules.events.contributions.models.persons.ContributionPersonLink(*args,
                                                                                          **kwargs)
    Bases: indico.modules.events.models.persons.PersonLinkBase
    Association between EventPerson and Contribution.
    author_type
    contribution_id
    display order
    id
    is_author
    is_speaker
```

is submitter

locator

Define a smart locator property.

This behaves pretty much like a normal read-only property and the decorated function should return a dict containing the necessary data to build a URL for the object.

This decorator should usually be applied to a method named locator as this name is required for get locator to find it automatically when just passing the object.

If you need more than one locator, you can define it like this:

```
@locator_property
def locator(self):
   return {...}
@locator.other
def locator(self):
   return {...}
```

The other locator can then be accessed by passing obj.locator.other to the code expecting an object with a locator.

```
object_relationship_name = 'contribution'
    person
    person_id
    person_link_backref_name = 'contribution_links'
    person_link_unique_columns = ('contribution_id',)
class indico.modules.events.contributions.models.persons.SubContributionPersonLink(*args,
                                                                                       **kwargs)
    Bases: indico.modules.events.models.persons.PersonLinkBase
    Association between EventPerson and SubContribution.
    author_type = 0
    display_order
    id
    is_speaker = True
    object_relationship_name = 'subcontribution'
    person
    person_id
    person_link_backref_name = 'subcontribution_links'
    person_link_unique_columns = ('subcontribution_id',)
    subcontribution_id
class indico.modules.events.contributions.models.principals.ContributionPrincipal(**kwargs)
                indico.core.db.sqlalchemy.principals.PrincipalPermissionsMixin,
    sqlalchemy.orm.decl_api.Model
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwarqs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```
allow_category_roles = True
    allow_emails = True
    allow event roles = True
    allow_registration_forms = True
    category_role
    category_role_id
    contribution id
        The ID of the associated contribution
    disallowed_protection_modes = frozenset()
    email
    event role
    event_role_id
    full_access
    id
        The ID of the acl entry
    ip_network_group = None
    ip_network_group_id = None
    local_group
    local_group_id
    multipass_group_name
    multipass_group_provider
    permissions
    principal_backref_name = 'in_contribution_acls'
    principal_for = 'Contribution'
    read_access
    registration_form
    registration_form_id
    type
    unique_columns = ('contribution_id',)
    user
    user_id
class indico.modules.events.contributions.models.references.ContributionReference(**kwargs)
    Bases: indico.modules.events.models.references.ReferenceModelBase
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```
contribution_id
    reference backref name = 'contribution references'
    reference_type
    reference_type_id
    value
class indico.modules.events.contributions.models.references.SubContributionReference(**kwars
    Bases: indico.modules.events.models.references.ReferenceModelBase
    A simple constructor that allows initialization from kwargs.
    Sets attributes on the constructed instance using the names and values in kwargs.
    Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any
    mapped columns or relationships.
    reference_backref_name = 'subcontribution_references'
    reference type
    reference_type_id
    subcontribution_id
    value
class indico.modules.events.contributions.models.subcontributions.SubContribution (**kwargs)
             indico.core.db.sqlalchemy.searchable.SearchableTitleMixin, indico.
    core.db.sqlalchemy.descriptions.SearchableDescriptionMixin, indico.core.db.
    sqlalchemy.attachments.AttachedItemsMixin, indico.core.db.sqlalchemy.notes.
    AttachedNotesMixin, sqlalchemy.orm.decl_api.Model
    ATTACHMENT FOLDER ID COLUMN = 'subcontribution id'
    PRELOAD_EVENT_ATTACHED_ITEMS = True
    PRELOAD_EVENT_NOTES = True
    can_access (user, **kwargs)
    can_manage (user, permission=None, **kwargs)
    code
    contribution_id
    default_render_mode = 2
    duration
    event
    friendly_id
        The human-friendly ID for the sub-contribution
    get_access_list()
    get_manager_list (recursive=False, include_groups=True)
```

```
id
is_deleted
is_protected
is_user_associated(user)
location_parent
locator
```

Define a smart locator property.

This behaves pretty much like a normal read-only property and the decorated function should return a dict containing the necessary data to build a URL for the object.

This decorator should usually be applied to a method named locator as this name is required for *get_locator* to find it automatically when just passing the object.

If you need more than one locator, you can define it like this:

```
@locator_property
def locator(self):
    return {...}

@locator.other
def locator(self):
    return {...}
```

The other locator can then be accessed by passing obj.locator.other to the code expecting an object with a locator.

```
note
```

person_links

Persons associated with this contribution

```
position
```

```
possible_render_modes = {<RenderMode.html: 1>, <RenderMode.markdown: 2>;
```

references

External references associated with this contribution

render_mode

room name

session

Convenience property so all event entities have it.

slug

speakers

timetable_entry

Convenience property so all event entities have it.

title

venue_name

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwarqs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```
description
event
event_id
id
is_private
```

locator

Define a smart locator property.

This behaves pretty much like a normal read-only property and the decorated function should return a dict containing the necessary data to build a URL for the object.

This decorator should usually be applied to a method named locator as this name is required for *get_locator* to find it automatically when just passing the object.

If you need more than one locator, you can define it like this:

```
@locator_property
def locator(self):
    return {...}

@locator.other
def locator(self):
    return {...}
```

The other locator can then be accessed by passing obj.locator.other to the code expecting an object with a locator.

name

Operations

7.1. API reference 179

indico.modules.events.contributions.operations.delete_subcontribution(subcontrib)

```
indico.modules.events.contributions.operations. {\it update\_contribution}\ ({\it contrib}, contribution) \ ({\it contrib\_data}, custom\_fields\_data=None)
```

Update a contribution.

Parameters

- contrib The Contribution to update
- contrib_data A dict containing the data to update
- custom_fields_data A dict containing the data for custom fields.

Returns A dictionary containing information related to the update. *unscheduled* will be true if the modification resulted in the contribution being unscheduled. In this case *undo_unschedule* contains the necessary data to re-schedule it (undoing the session change causing it to be unscheduled)

Utilities

If only_speakers is true, then only contributions where the person is a speaker are returned

```
indico.modules.events.contributions.util.get_contributions_with_user_as_submitter(event, user)
```

Get a list of contributions in which the *user* has submission rights.

Return a dict with keys representing event_id and the values containing data about the user rights for contributions within the event.

Parameters

- user A User
- dt Only include events taking place on/after that date

```
indico.modules.events.contributions.util.has_contributions_with_user_as_submitter (event, user) indico.modules.events.contributions.util.import_contributions_from_csv (event, f)

Import timetable contributions from a CSV file into an event.
```

```
indico.modules.events.contributions.util.make_contribution_form(event)

Extend the contribution WTForm to add the extra fields.
```

Each extra field will use a field named custom_ID.

Parameters event – The *Event* for which to create the contribution form.

Returns A *ContributionForm* subclass.

indico.modules.events.contributions.util.sort_contribs(contribs, sort_by)

7.1.5 Feature

Todo: Docstrings (module, utilities)

Utilities

Parameters

- **event** The event (or event ID) to check.
- name The name of the feature.

indico.modules.events.features.util.require_feature(event, name)
 Raise a NotFound error if a feature is not enabled.

Parameters

- **event** The event (or event ID) to check.
- name The name of the feature.

indico.modules.events.features.util.set_feature_enabled(event, name, state)
Enable/disable a feature for an event.

Parameters

- **event** The event.
- name The name of the feature.
- **state** If the feature is enabled or not.

Returns Boolean indicating if the state of the feature changed.

7.1.6 Layout

Todo: Docstrings (module, models, utilities)

Models

```
class indico.modules.events.layout.models.images.ImageFile(**kwargs)
    Bases: indico.core.storage.models.StoredFileMixin, sqlalchemy.orm.decl_api.
    Model
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

content_type

The MIME type of the file.

created_dt

The date/time when the file was uploaded.

event

event_id

The event the image belongs to

extension

The extension of the file.

filename

The name of the file.

id

The ID of the file

locator

md5

An MD5 hash of the file.

Automatically assigned when save() is called.

```
size
          The size of the file (in bytes).
          Automatically assigned when save() is called.
     storage_backend
     storage file id
     version of = None
class indico.modules.events.layout.models.menu.EventPage(**kwargs)
     Bases: sqlalchemy.orm.decl_api.Model
     A simple constructor that allows initialization from kwargs.
     Sets attributes on the constructed instance using the names and values in kwargs.
     Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any
     mapped columns or relationships.
     event
         The Event which contains the page
     event id
         The ID of the event which contains the page
     html
          The rendered HTML of the page
     id
          The ID of the page
     is_default
     locator
class indico.modules.events.layout.models.menu.MenuEntry(**kwargs)
            indico.modules.events.layout.models.menu.MenuEntryMixin, sqlalchemy.
     orm.decl_api.Model
     children
         The children menu entries and parent backref
     event
          The Event containing the menu entry
     event id
         The ID of the event which contains the menu
     static get_for_event(event)
     id
         The ID of the menu entry
     insert (parent, position)
     is enabled
          Whether the entry is visible in the event's menu
     is_root
     link_url
         The target URL of a custom link
     move (to)
```

```
name
         The name of the menu entry (to uniquely identify a default entry for a given event)
     new tab
         Whether the menu entry should be opened in a new tab or window
     page
         The page of the menu entry
     page id
         The page ID if the entry is a page
     parent_id
         The ID of the parent menu entry (NULL if root menu entry)
         The name of the plugin from which the entry comes from (NULL if the entry does not come from a plugin)
     position
         The relative position of the entry in the menu
     registered only
         Whether the menu entry should be viewable only by registered users
     title
         The title of the menu entry (to be displayed to the user)
     type
         The type of the menu entry
class indico.modules.events.layout.models.menu.MenuEntryMixin(**kwargs)
     Bases: object
     default_data
     event_ref
     is_internal_link
     is_link
     is_orphaned
     is_page
     is_plugin_link
     is_separator
     is user link
     is_visible
     localized_title
     locator
     url
class indico.modules.events.layout.models.menu.MenuEntryType
     Bases: indico.util.enum.RichIntEnum
     An enumeration.
     internal_link = 2
     page = 5
```

Utilities

Bases: object

Container to transmit menu entry-related data via signals.

The data contained is transmitted via the *sidemenu* signal and used to build the side menu of an event.

Parameters

- **title** str The title of the menu, displayed to the user. The title should be translated using the normal gettext function, i.e. _ ('...'), or the plugin's bound gettext function.
- name str Name used to refer to the entry internally. This is never shown to the user. The name must be unique, names from plugins are automatically prefixed with the plugin name and a colon and therefore have to be unique only within the plugin. To mark the entry as active, its name must be specified in the *menu_entry_name* class attribute of the WP class. For plugins, the plugin name must be specified via the *menu_entry_plugin* attribute as well.
- **endpoint** str The endpoint the entry will point to.
- **position** int The desired position of the menu entry. the position is indicative only, relative to the other entries and not the exact position. Entries with the same position will be sorted alphanumerically on their name. A position of -*I* will append the entry at the end of the menu.
- is_enabled bool Whether the entry should be enabled by default (Default: *True*).
- **visible** function Determines if the entry should be visible. This is a simple function which takes only the *event* as parameter and returns a boolean to indicate if the entry is visible or not. It is called whenever the menu is displayed, so the current state of the event/user can be taken into account.
- parent str The name of the parent entry (None for root entries).
- **static_site** bool or str If True, this menu item should be shown in the menu of a static site. When set to a string, the string will be used instead of a mangled version of the endpoint's URL.

• url_kwargs - dict - Additional data passed to url_for when building the url the menu item points to.

name

```
plugin = None
visible(event)
```

indico.modules.events.layout.util.build_menu_entry_name (name, plugin=None) Build the proper name for a menu entry.

Given a menu entry's name and optionally a plugin, returns the correct name of the menu entry.

Parameters

- name str The name of the menu entry.
- plugin IndicoPlugin or str The plugin (or the name of the plugin) which created the entry.

Parameters

- event The *Event* to get the CSS url for
- force_theme The ID of the theme to override the custom CSS resource only if it exists
- for_preview Whether the URL is used in the CSS preview page

Returns The URL to the CSS resource

7.1.7 Log

Todo: Docstrings (module, models, utilities)

Models

Log entries for events.

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwarqs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

data

Type-specific data

event

The Event this log entry is associated with

event_id

The ID of the event

id

The ID of the log entry

kind

The general kind of operation that was performed

logged_date

logged_dt

The date/time when the reminder was created

meta

Non-displayable data

module

The module the operation was related to (does not need to match something in indico.modules and should be human-friendly but not translated).

realm

The general area of the event the entry comes from

render()

Render the log entry to be displayed.

If the renderer is not available anymore, e.g. because of a disabled plugin, None is returned.

renderer

summary

A short one-line description of the logged action. Should not be translated!

type

The type of the log entry. This needs to match the name of a log renderer.

user

The user associated with the log entry

user_id

The ID of the user associated with the entry

```
class indico.modules.events.logs.models.entries.EventLogKind
    Bases: int, indico.util.enum.IndicoEnum
```

An enumeration.

```
change = 3
negative = 4
other = 1
positive = 2
```

```
class indico.modules.events.logs.models.entries.EventLogRealm
    Bases: indico.util.enum.RichIntEnum
    An enumeration.
    emails = 5
    event = 1
    management = 2
    participants = 3
    reviewing = 4
```

Utilities

Parameters

- changes a dict mapping attributes to (old, new) tuples
- **fields** a dict mapping attributes to field metadata. for simple cases this may be a string with the human-friendly title, for more advanced fields it should be a dict containing title, a type string and a convert callback which will be invoked with a tuple containing the old and new value

```
indico.modules.events.logs.util.render_changes (a, b, type_{-})
Render the comparison of a and b as HTML.
```

Parameters

- a old value
- b new value
- type the type determining how the values should be compared

```
indico.modules.events.logs.util.serialize_log_entry(entry)

class indico.modules.events.logs.renderers.EmailRenderer
    Bases: indico.modules.events.logs.renderers.EventLogRendererBase
    name = 'email'
    template_name = 'events/logs/entry_email.html'

class indico.modules.events.logs.renderers.EventLogRendererBase
    Bases: object
```

Base class for event log renderers.

```
classmethod get data(entry)
```

Return the entry data in a format suitable for the template.

This method may be overridden if the entry's data needs to be preprocessed before being passed to the template.

It MUST NOT modify entry.data directly.

```
name = None
```

unique name of the log renderer (matches EventLogEntry.type)

```
plugin = None
    plugin containing this renderer - assigned automatically

classmethod render_entry(entry)
    Render the log entry row.

    Parameters entry - A EventLogEntry

template_kwargs = {}
    extra kwargs passed to render_template

template_name = None
    template used to render the log entry

class indico.modules.events.logs.renderers.SimpleRenderer
    Bases: indico.modules.events.logs.renderers.EventLogRendererBase
    classmethod get_data(entry)
```

Return the entry data in a format suitable for the template.

This method may be overridden if the entry's data needs to be preprocessed before being passed to the template.

It MUST NOT modify *entry.data* directly.

```
name = 'simple'
template_kwargs = {'compare': <function render_changes>}
template_name = 'events/logs/entry_simple.html'
```

7.1.8 Event Management

```
class indico.modules.events.management.controllers.RHManageEventBase
    Bases: indico.modules.events.controllers.base.RHEventBase, indico.modules.
    events.management.controllers.base.ManageEventMixin
```

Base class for event management RHs.

Bases: indico.web.views.WPJinjaMixin, indico.web.views.WPDecorated

Base class for event management pages.

When using this class the template will always have *event* available; it is not necessary to pass it as a kwarg when calling the *render_template* classmethod.

When using the class directly, pass the menu item as a posarg:

When subclassing you can set *sidemenu_option* on the class, allowing you to omit it. This is recommended if you have many pages using the same menu item or if you already need to subclass for some other reason (e.g. to set a *template_prefix* or include additional JS/CSS bundles):

7.1.9 Note

Todo: Docstrings (module, models, utilities)

Models

```
class indico.modules.events.notes.models.notes.EventNote(**kwargs)
           indico.core.db.sqlalchemy.links.LinkMixin, sqlalchemy.orm.decl_api.
    Model
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```
allowed_link_types = frozenset({<LinkType.event: 2>, <LinkType.contribution:</pre>
category = None
category id = None
contribution
contribution_id
create_revision (render_mode, source, user)
```

Create a new revision if needed and marks it as undeleted if it was.

Any change to the render mode or the source causes a new revision to be created. The user is not taken into account since a user "modifying" a note without changing things is not really a change.

current_revision

The currently active revision of the note

current revision id

The ID of the current revision

delete(user)

Mark the note as deleted and adds a new empty revision.

event

```
event_id
```

```
events_backref_name = 'all_notes'
```

classmethod get_for_linked_object (linked_object, preload_event=True)

Get the note for the given object.

This only returns a note that hasn't been deleted.

Parameters

- linked_object An event, session, contribution or subcontribution.
- preload event If all notes for the same event should be pre-loaded and cached in the app context.

3>, <Li

classmethod get_or_create(linked_object)

Get the note for the given object or creates a new one.

If there is an existing note for the object, it will be returned even. Otherwise a new note is created.

html

The rendered HTML of the note

classmethod html_matches (search_string, exact=False)

Check whether the html content matches a search string.

To be used in a SQLAlchemy filter call.

Parameters

- search_string A string to search for
- exact Whether to search for the exact string

id

The ID of the note

is deleted

locator

If the note has been deleted

```
link_backref_name = 'note'
link_type
linked_event
linked_event_id
```

Define a smart locator property.

This behaves pretty much like a normal read-only property and the decorated function should return a dict containing the necessary data to build a URL for the object.

This decorator should usually be applied to a method named locator as this name is required for *get_locator* to find it automatically when just passing the object.

If you need more than one locator, you can define it like this:

```
@locator_property
def locator(self):
    return {...}

@locator.other
def locator(self):
    return {...}
```

The other locator can then be accessed by passing obj.locator.other to the code expecting an object with a locator.

revisions

The list of all revisions for the note

session session_block = None session_block_id = None session_id

```
subcontribution
subcontribution_id
unique_links = True

class indico.modules.events.notes.models.notes.EventNoteRevision(**kwargs)
Bases: sqlalchemy.orm.decl_api.Model
A simple constructor that allows initialization from kwargs.
```

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

created_dt

The date/time when the revision was created

html

The rendered HTML of the note

id

The ID of the revision

note

note id

The ID of the associated note

render mode

How the note is rendered

source

The raw source of the note as provided by the user

user

The user who created the revision

user id

The user who created the revision

Utilities

```
indico.modules.events.notes.util.build_note_api_data(note)
indico.modules.events.notes.util.build_note_legacy_api_data(note)
indico.modules.events.notes.util.can_edit_note(obj, user)
        Check if a user can edit the object's note.
indico.modules.events.notes.util.get_scheduled_notes(event)
        Get all notes of scheduled items inside an event.
```

7.1.10 Paper

Todo: Docstrings (module, models, operations, utilities, settings)

The papers module handles the Indico's Paper Peer Reviewing workflow. The "inputs" of this module are the conference papers, which will be uploaded by the corresponding authors/submitters.

Models

```
class indico.modules.events.papers.models.call_for_papers.CallForPapers(event)
    Bases: object
    Proxy class to facilitate access to the call for papers settings.
    announcement
    assignees
    can_access_judging_area(user)
    can_access_reviewing_area(user)
    close()
    content_review_questions
    content reviewer deadline
    content_reviewer_deadline_enforced
    content_reviewers
    content_reviewing_enabled
    end dt
    get_questions_for_review_type (review_type)
    get_reviewing_state(reviewing_type)
    has_ended
    has started
    is_judge (user)
    is_manager(user)
    is_open
    is_reviewer (user, role=None)
    is_staff(user)
    judge_deadline
    judges
    layout_review_questions
    layout_reviewer_deadline
    layout_reviewer_deadline_enforced
    layout_reviewers
    layout_reviewing_enabled
    managers
    open()
    rating_range
    schedule (start_dt, end_dt)
```

```
set_reviewing_state(reviewing_type, enable)
start_dt
user_competences
class indico.modules.events.papers.models.comments.PaperReviewComment(**kwargs)
Bases: indico.modules.events.models.reviews.ProposalCommentMixin, indico.core.db.sqlalchemy.review_comments.ReviewCommentMixin, sqlalchemy.orm.decl_api.Model
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```
can_edit (user)
can_view (user)
created_dt
id
is_deleted
locator
```

Define a smart locator property.

This behaves pretty much like a normal read-only property and the decorated function should return a dict containing the necessary data to build a URL for the object.

This decorator should usually be applied to a method named locator as this name is required for *get_locator* to find it automatically when just passing the object.

If you need more than one locator, you can define it like this:

```
@locator_property
def locator(self):
    return {...}

@locator.other
def locator(self):
    return {...}
```

The other locator can then be accessed by passing obj.locator.other to the code expecting an object with a locator.

```
modified_by
modified_by_id
modified_dt
paper_revision
render_mode = 2
revision_id
user
user_backref_name = 'review_comments'
user_id
```

```
visibility
class indico.modules.events.papers.models.competences.PaperCompetence(**kwargs)
     Bases: sqlalchemy.orm.decl_api.Model
     A simple constructor that allows initialization from kwargs.
     Sets attributes on the constructed instance using the names and values in kwargs.
     Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any
     mapped columns or relationships.
     competences
     event
     event_id
     id
     classmethod merge_users (target, source)
     user
     user_id
class indico.modules.events.papers.models.files.PaperFile(*args, **kwargs)
     Bases: indico.core.storage.models.StoredFileMixin, sqlalchemy.orm.decl api.
     Model
     add_file_date_column = False
     content_type
         The MIME type of the file.
     created dt = None
     extension
         The extension of the file.
     filename
         The name of the file.
     id
     locator
         Define a smart locator property.
```

user_modified_backref_name = 'modified_review_comments'

This behaves pretty much like a normal read-only property and the decorated function should return a dict containing the necessary data to build a URL for the object.

This decorator should usually be applied to a method named locator as this name is required for *get_locator* to find it automatically when just passing the object.

If you need more than one locator, you can define it like this:

```
@locator_property
def locator(self):
    return {...}

@locator.other
def locator(self):
    return {...}
```

The other locator can then be accessed by passing obj.locator.other to the code expecting an object with a locator.

```
md5
```

An MD5 hash of the file.

Automatically assigned when save() is called.

```
paper
paper_revision
revision_id
size
```

The size of the file (in bytes).

Automatically assigned when *save()* is called.

```
storage_backend
storage_file_id
```

class indico.modules.events.papers.models.papers.Paper(contribution)

Bases: indico.modules.events.models.reviews.ProposalMixin

Proxy class to facilitate access to all paper-related properties.

```
accepted_revision
call_for_proposals_attr = 'cfp'
can_comment (user, check_state=False)
can_judge (user, check_state=False)
can_manage (user)
can_review (user, check_state=False)
can_submit (user)
event
files
get_last_revision()
get_revisions()
is_in_final_state
judgment_comment
last_revision
locator
```

Define a smart locator property.

This behaves pretty much like a normal read-only property and the decorated function should return a dict containing the necessary data to build a URL for the object.

This decorator should usually be applied to a method named locator as this name is required for *get_locator* to find it automatically when just passing the object.

If you need more than one locator, you can define it like this:

```
@locator_property
def locator(self):
    return {...}

@locator.other
def locator(self):
    return {...}
```

The other locator can then be accessed by passing obj.locator.other to the code expecting an object with a locator.

```
proposal_type = 'paper'
proxied_attr = 'contribution'
reset_state()
revision_count
revisions
revisions_enabled = True
state
title
verbose_title

class indico.modules.events.papers.models.review_questions.PaperReviewQuestion(**kwargs)
Bases: indico.core.db.sqlalchemy.review_questions.ReviewQuestionMixin,
```

A simple constructor that allows initialization from kwargs.

sqlalchemy.orm.decl_api.Model

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```
description
event
event_backref_name = 'paper_review_questions'
event_id
field
field_data
field_type
id
is_deleted
is_required
locator
```

Define a smart locator property.

This behaves pretty much like a normal read-only property and the decorated function should return a dict containing the necessary data to build a URL for the object.

This decorator should usually be applied to a method named locator as this name is required for get_locator to find it automatically when just passing the object.

If you need more than one locator, you can define it like this:

```
@locator_property
def locator(self):
    return {...}
@locator.other
def locator(self):
    return {...}
```

The other locator can then be accessed by passing obj.locator.other to the code expecting an object with a locator.

```
position
title
type
```

```
class indico.modules.events.papers.models.review_ratings.PaperReviewRating(**kwargs)
                    indico.core.db.sqlalchemy.review_ratings.ReviewRatingMixin,
    sqlalchemy.orm.decl api.Model
```

A simple constructor that allows initialization from kwargs.

Bases: indico.util.enum.RichIntEnum

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any

```
mapped columns or relationships.
    id
    question
    question_class
        alias
                  of
                           indico.modules.events.papers.models.review questions.
        PaperReviewQuestion
    question_id
    review
    review class
        alias of indico.modules.events.papers.models.reviews.PaperReview
    review_id
    value
class indico.modules.events.papers.models.reviews.PaperAction
    Bases: indico.util.enum.RichIntEnum
    An enumeration.
    accept = 1
    reject = 2
    to be corrected = 3
class indico.modules.events.papers.models.reviews.PaperCommentVisibility
```

Most to least restrictive visibility for paper comments.

```
contributors = 3
    judges = 1
    reviewers = 2
    users = 4
class indico.modules.events.papers.models.reviews.PaperJudgmentProxy(paper)
    Bases: object
    A timeline item for the non final judgments.
    created dt
    timeline_item_type = 'judgment'
class indico.modules.events.papers.models.reviews.PaperReview(**kwargs)
```

Bases: indico.modules.events.models.reviews.ProposalReviewMixin, indico.core. db.sqlalchemy.descriptions.RenderModeMixin,sqlalchemy.orm.decl_api.Model

A paper review, emitted by a layout or content reviewer.

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```
TIMELINE TYPE = 'review'
can_edit (user, check_state=False)
can_view(user)
comment
created dt
default_render_mode = 2
group_attr = 'type'
group_proxy_cls
    alias of PaperTypeProxy
id
```

locator

Define a smart locator property.

This behaves pretty much like a normal read-only property and the decorated function should return a dict containing the necessary data to build a URL for the object.

This decorator should usually be applied to a method named locator as this name is required for get_locator to find it automatically when just passing the object.

If you need more than one locator, you can define it like this:

```
@locator_property
def locator(self):
   return {...}
@locator.other
```

(continues on next page)

(continued from previous page)

```
def locator(self):
    return {...}
```

The other locator can then be accessed by passing obj.locator.other to the code expecting an object with a locator.

```
modified_dt
    possible_render_modes = {<RenderMode.markdown: 2>}
    proposed_action
    render mode = 2
    revision
    revision_attr = 'revision'
    revision_id
    score
    type
    user
    user_id
    visibility
class indico.modules.events.papers.models.reviews.PaperReviewType
    Bases: indico.util.enum.RichIntEnum
    An enumeration.
    content = 2
    layout = 1
class indico.modules.events.papers.models.reviews.PaperTypeProxy (group)
    Bases: indico.modules.events.models.reviews.ProposalGroupProxy
```

locator

Define a smart locator property.

This behaves pretty much like a normal read-only property and the decorated function should return a dict containing the necessary data to build a URL for the object.

This decorator should usually be applied to a method named locator as this name is required for *get_locator* to find it automatically when just passing the object.

If you need more than one locator, you can define it like this:

```
@locator_property
def locator(self):
    return {...}

@locator.other
def locator(self):
    return {...}
```

The other locator can then be accessed by passing obj.locator.other to the code expecting an object with a locator.

```
class indico.modules.events.papers.models.revisions.PaperRevision(*args,
                                                                       **kwargs)
            indico.modules.events.models.reviews.ProposalRevisionMixin, indico.
    core.db.sqlalchemy.descriptions.RenderModeMixin, sqlalchemy.orm.decl_api.
    Model
    default_render_mode = 2
    get_reviewed_for_groups (user, include_reviewed=False)
    get_reviews (group=None, user=None)
    get_spotlight_file()
    get_timeline (user=None)
    has_user_reviewed (user, review_type=None)
    id
    is_last_revision
    judge
    judge id
    judgment comment
    judgment_dt
    locator
```

Define a smart locator property.

This behaves pretty much like a normal read-only property and the decorated function should return a dict containing the necessary data to build a URL for the object.

This decorator should usually be applied to a method named locator as this name is required for *get_locator* to find it automatically when just passing the object.

If you need more than one locator, you can define it like this:

```
@locator_property
def locator(self):
    return {...}

@locator.other
def locator(self):
    return {...}
```

The other locator can then be accessed by passing obj.locator.other to the code expecting an object with a locator.

```
number
paper

possible_render_modes = {<RenderMode.markdown: 2>}
proposal_attr = 'paper'
render_mode = 2
spotlight_file
state
submitted dt
```

```
submitter
submitter_id
timeline

class indico.modules.events.papers.models.revisions.PaperRevisionState
    Bases: indico.util.enum.RichIntEnum
    An enumeration.
    accepted = 2
    rejected = 3
    submitted = 1
    to_be_corrected = 4

class indico.modules.events.papers.models.templates.PaperTemplate(**kwargs)
    Bases: indico.core.storage.models.StoredFileMixin, sqlalchemy.orm.decl_api.
    Model
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```
add_file_date_column = False
content_type
    The MIME type of the file.
created_dt = None
description
event
event_id
extension
    The extension of the file.
filename
    The name of the file.
id
```

locator

Define a smart locator property.

This behaves pretty much like a normal read-only property and the decorated function should return a dict containing the necessary data to build a URL for the object.

This decorator should usually be applied to a method named locator as this name is required for *get_locator* to find it automatically when just passing the object.

If you need more than one locator, you can define it like this:

```
@locator_property
def locator(self):
    return {...}
```

(continues on next page)

(continued from previous page)

```
@locator.other
def locator(self):
    return {...}
```

The other locator can then be accessed by passing obj.locator.other to the code expecting an object with a locator.

md5

An MD5 hash of the file.

Automatically assigned when *save()* is called.

name

size

The size of the file (in bytes).

Automatically assigned when save() is called.

```
storage_backend
storage_file_id
```

Operations

```
indico.modules.events.papers.operations.close_cfp (event)
indico.modules.events.papers.operations.create_comment (paper, text, visibility, user)
indico.modules.events.papers.operations.create competences (event, user, compe-
                                                                 tences)
indico.modules.events.papers.operations.create_paper_revision(paper, submitter,
indico.modules.events.papers.operations.create_paper_template(event, data)
indico.modules.events.papers.operations.create_review(paper, review_type, user, re-
                                                           view_data, questions_data)
indico.modules.events.papers.operations.delete_comment(comment)
indico.modules.events.papers.operations.delete_paper_template(template)
indico.modules.events.papers.operations.judge_paper(paper,
                                                                judgment,
                                                                          comment,
                                                         judge)
indico.modules.events.papers.operations.open_cfp (event)
indico.modules.events.papers.operations.reset_paper_state(paper)
indico.modules.events.papers.operations.schedule cfp(event, start dt, end dt)
indico.modules.events.papers.operations.set_deadline(event, role, deadline,
                                                          force=True)
indico.modules.events.papers.operations.set_reviewing_state (event,
                                                                            review-
                                                                  ing_type, enable)
indico.modules.events.papers.operations.update_comment (comment, text=None, visi-
                                                            bility=None)
indico.modules.events.papers.operations.update_competences (user_competences,
                                                                 competences)
```

```
indico.modules.events.papers.operations.update_paper_template(template, data)
indico.modules.events.papers.operations.update_review (review, review_data, ques-
                                                              tions data)
indico.modules.events.papers.operations.update reviewing roles (event,
                                                                                 users.
                                                                        contributions.
                                                                         role, assign)
indico.modules.events.papers.operations.update_team_members(event,
                                                                             managers,
                                                                     judges,
                                                                                  con-
                                                                     tent_reviewers=None,
                                                                     lav-
                                                                     out reviewers=None)
```

Utilities

```
indico.modules.events.papers.util.get_contributions_with_paper_submitted_by_user(event,
                                                                                               user)
indico.modules.events.papers.util.get_events_with_paper_roles(user, dt=None)
    Get the IDs and PR roles of events where the user has any kind of paper reviewing privileges.
```

Parameters

- user A User
- dt Only include events taking place on/after that date

Returns A dict mapping event IDs to a set of roles

```
indico.modules.events.papers.util.get_user_contributions_to_review (event,
                                                                                   user)
     Get the list of contributions where user has paper to review.
```

```
indico.modules.events.papers.util.get_user_reviewed_contributions(event,
                                                                      user)
```

Get the list of contributions where user already reviewed paper.

```
indico.modules.events.papers.util.get_user_submittable_contributions (event,
                                                                         user)
```

```
indico.modules.events.papers.util.has_contributions_with_user_paper_submission_rights(event,
                                                                                          user)
```

indico.modules.events.papers.util.is_type_reviewing_possible(cfp, review_type)

Settings

```
class indico.modules.events.settings.EventACLProxy(proxy)
     Bases: indico.core.settings.proxy.ACLProxyBase
     Proxy class for event-specific ACL settings.
     add_principal (event, name, principal)
         Add a principal to an ACL.
```

Parameters

- event Event (or its ID)
- name Setting name
- principal A User or a GroupProxy

```
Check if a user is in an ACL.
          To pass this check, the user can either be in the ACL itself or in a group in the ACL.
              Parameters
                  • event – Event (or its ID)
                  • name – Setting name
                  • user - A User
     get (event, name)
          Retrieves an ACL setting
              Parameters
                  • event – Event (or its ID)
                  • name – Setting name
     merge_users (target, source)
          Replace all ACL user entries for source with target.
     remove_principal (event, name, principal)
          Remove a principal from an ACL.
              Parameters
                  • event – Event (or its ID)
                  • name – Setting name
                  • principal - A User or a GroupProxy
     set (event, name, acl)
          Replace an ACL with a new one.
              Parameters
                  • event – Event (or its ID)
                  • name – Setting name
                  • acl – A set containing principals (users/groups)
class indico.modules.events.settings.EventSettingProperty (proxy,
                                                                                     name,
                                                                            fault=<object object>,
                                                                            attr=None)
     Bases: \verb|indico.core.settings.proxy.SettingProperty|\\
     attr = 'event'
class indico.modules.events.settings.EventSettingsProxy (module,
                                                                                   defaults=None,
                                                                                       acls=None,
                                                                         strict=True,
                                                                         converters=None)
     Bases: indico.core.settings.proxy.SettingsProxyBase
     Proxy class to access event-specific settings for a certain module.
     acl_proxy_class
          alias of EventACLProxy
     delete (event, *names)
          Delete settings.
              Parameters
```

contains user(event, name, user)

```
• event – Event (or its ID)
                   • names – One or more names of settings to delete
     delete_all(event)
          Delete all settings.
              Parameters event – Event (or its ID)
     get (event, name, default=<object object>)
          Retrieve the value of a single setting.
              Parameters
                   • event – Event (or its ID)
                   • name – Setting name
                   • default – Default value in case the setting does not exist
              Returns The settings's value or the default value
     get_all (event, no_defaults=False)
          Retrieve all settings.
              Parameters
                   • event – Event (or its ID)
                   • no defaults – Only return existing settings and ignore defaults.
              Returns Dict containing the settings
     query
          Return a query object filtering by the proxy's module.
     set (event, name, value)
          Set a single setting.
              Parameters
                   • event – Event (or its ID)
                   • name – Setting name
                   • value – Setting value; must be JSON-serializable
     set_multi(event, items)
          Set multiple settings at once.
              Parameters
                   • event – Event (or its ID)
                   • items – Dict containing the new settings
class indico.modules.events.settings.ThemeSettingsProxy
     Bases: object
     defaults
     get_themes_for (event_type)
     settings
     themes
indico.modules.events.settings.event_or_id(f)
```

7.1.11 Payment

Todo: Docstrings (module, models, plugins)

Models

```
exception indico.modules.events.payment.models.transactions.DoublePaymentTransaction
     Bases: Exception
exception indico.modules.events.payment.models.transactions.IgnoredTransactionAction
     Bases: Exception
exception indico.modules.events.payment.models.transactions.InvalidManualTransactionAction
     Bases: Exception
exception indico.modules.events.payment.models.transactions.InvalidTransactionAction
     Bases: Exception
exception indico.modules.events.payment.models.transactions.InvalidTransactionStatus
     Bases: Exception
class indico.modules.events.payment.models.transactions.PaymentTransaction(**kwargs)
     Bases: sqlalchemy.orm.decl_api.Model
     Payment transactions.
     A simple constructor that allows initialization from kwargs.
     Sets attributes on the constructed instance using the names and values in kwarqs.
     Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any
     mapped columns or relationships.
     amount
         the base amount the user needs to pay (without payment-specific fees)
     classmethod create_next (registration, amount, currency, action, provider=None, data=None)
     currency
         the currency of the payment (ISO string, e.g. EUR or USD)
     data
         plugin-specific data of the payment
     id
         Entry ID
     is_manual
     plugin
     provider
         the provider of the payment (e.g. manual, PayPal etc.)
     registration
         The associated registration
     registration_id
         ID of the associated registration
```

```
render details()
         Render the transaction details.
    status
         a TransactionStatus
    timestamp
         the date and time the transaction was recorded
class indico.modules.events.payment.models.transactions.TransactionAction
    Bases: int, indico.util.enum.IndicoEnum
    An enumeration.
    cancel = 2
    complete = 1
    pending = 3
    reject = 4
class indico.modules.events.payment.models.transactions.TransactionStatus
    Bases: int, indico.util.enum.IndicoEnum
    An enumeration.
    cancelled = 2
         payment cancelled manually
    failed = 3
         payment attempt failed
    pending = 4
         payment on hold pending approval of merchant
    rejected = 5
         payment rejected after being pending
    successful = 1
         payment attempt succeeded
class indico.modules.events.payment.models.transactions.TransactionStatusTransition
    Bases: object
    initial_statuses = [<TransactionStatus.cancelled: 2>, <TransactionStatus.failed:</pre>
    classmethod next (transaction, action, provider=None)
Utilities
indico.modules.events.payment.util.get_active_payment_plugins(event)
    Return a dict containing the active payment plugins of an event.
indico.modules.events.payment.util.get_payment_plugins()
    Return a dict containing the available payment plugins.
indico.modules.events.payment.util.register_transaction (registration,
                                                                                 amount,
                                                                  currency,
                                                                                  action,
                                                                  provider=None,
                                                                  data=None)
    Create a new transaction for a certain transaction action.
         Parameters
```

3>,

- registration the *Registration* associated to the transaction
- amount the (strictly positive) amount of the transaction
- **currency** the currency used for the transaction
- action the *TransactionAction* of the transaction
- **provider** the payment method name of the transaction, or '_manual' if no payment method has been used
- data arbitrary JSON-serializable data specific to the transaction's provider

Plugins

```
class indico.modules.events.payment.plugins.PaymentPluginMixin
    Bases: object
    adjust_payment_form_data(data)
```

Update the payment form data if necessary.

This method can be overridden to update e.g. the amount based on choices the user makes in the payment form or to provide additional data to the form. To do so, *data* must be modified.

Parameters data – a dict containing event, registration, amount, currency, settings and event_settings

```
can be modified (user, event)
```

Check if the user is allowed to enable/disable/modify the payment method.

Parameters

```
• user – the User repesenting the user
            • event - the Event
category = 'Payment'
default_settings
event_settings_form
    alias of PaymentEventSettingsFormBase
get_event_management_url (event, **kwargs)
get_invalid_regforms (event)
    Return registration forms with incompatible currencies.
get_method_name (event)
    Return the (customized) name of the payment method.
init()
logo url
render_payment_form (registration)
    Return the payment form shown to the user.
        Parameters registration - a Registration object
```

render_transaction_details (transaction)

Render the transaction details in event management.

Override this (or inherit from the template) to show more useful data such as transaction IDs

Parameters transaction - the PaymentTransaction

```
settings_form
    alias of PaymentPluginSettingsFormBase
supports_currency (currency)
valid_currencies = None
    Set containing all valid currencies. Set to None to allow all.
```

7.1.12 Person

Todo: Docstrings (module, operations)

Operations

indico.modules.events.persons.operations.update_person(person, data)

Placeholders

```
class indico.modules.events.persons.placeholders.ContributionsPlaceholder
    Bases: indico.util.placeholders.ParametrizedPlaceholder

classmethod iter_param_info(person, event, **kwargs)
    Yield information for known params.

Each item yielded must be a (value, description) tuple.

Parameters kwargs - arguments specific to the placeholder's context

name = 'contributions'

param_required = False

param_restricted = True

classmethod render(param, person, event, **kwargs)

Convert the placeholder to a string.
```

When a placeholder contains HTML that should not be escaped, the returned value should be returned as a markupsafe. Markup instance instead of a plain string.

Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwarqs.

Parameters kwargs – arguments specific to the placeholder's context

```
class indico.modules.events.persons.placeholders.EmailPlaceholder
    Bases: indico.util.placeholders.Placeholder

description = l'Email of the person'
name = 'email'

classmethod render(person, event, **kwargs)
    Convert the placeholder to a string.
```

When a placeholder contains HTML that should not be escaped, the returned value should be returned as a markupsafe. Markup instance instead of a plain string.

Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwargs.

Parameters kwargs – arguments specific to the placeholder's context

class indico.modules.events.persons.placeholders.EventLinkPlaceholder
 Bases: indico.util.placeholders.Placeholder

description = l'Link to the event'

name = 'event_link'

classmethod render(person, event, **kwargs)

 Convert the placeholder to a string.

When a placeholder contains HTML that should not be escaped, the returned value should be returned as a markupsafe. Markup instance instead of a plain string.

Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwargs.

Parameters kwargs – arguments specific to the placeholder's context

```
class indico.modules.events.persons.placeholders.EventTitlePlaceholder
    Bases: indico.util.placeholders.Placeholder

    description = l'The title of the event'
    name = 'event_title'
    classmethod render(person, event, **kwargs)
        Convert the placeholder to a string.
```

When a placeholder contains HTML that should not be escaped, the returned value should be returned as a markupsafe. Markup instance instead of a plain string.

Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwargs.

Parameters kwargs – arguments specific to the placeholder's context

```
class indico.modules.events.persons.placeholders.FirstNamePlaceholder
    Bases: indico.util.placeholders.Placeholder

description = l'First name of the person'
name = 'first_name'
classmethod render(person, event, **kwargs)
    Convert the placeholder to a string.
```

When a placeholder contains HTML that should not be escaped, the returned value should be returned as a markupsafe. Markup instance instead of a plain string.

Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwargs.

Parameters kwargs – arguments specific to the placeholder's context

```
class indico.modules.events.persons.placeholders.LastNamePlaceholder
    Bases: indico.util.placeholders.Placeholder

description = l'Last name of the person'
name = 'last_name'
classmethod render(person, event, **kwargs)
    Convert the placeholder to a string.
```

When a placeholder contains HTML that should not be escaped, the returned value should be returned as a markupsafe. Markup instance instead of a plain string.

Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwargs.

Parameters kwargs – arguments specific to the placeholder's context

class indico.modules.events.persons.placeholders.RegisterLinkPlaceholder
 Bases: indico.util.placeholders.Placeholder

description = 1'The link for the registration page'

name = 'register_link'

classmethod render (person, event, **kwargs)

Convert the placeholder to a string.

When a placeholder contains HTML that should not be escaped, the returned value should be returned as a markupsafe. Markup instance instead of a plain string.

Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwargs.

Parameters kwargs – arguments specific to the placeholder's context

7.1.13 Registration

Todo: Docstrings (module, models, utilities, statistics)

Models

Somebody's registration for an event through a registration form.

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

avatar_url

Return the url of the user's avatar.

base_price

The base registration fee (that is not specific to form items)

billable data

can be modified

can_be_withdrawn

checked_in

Whether the person has checked in. Setting this also sets or clears *checked_in_dt*.

checked_in_dt

The date/time when the person has checked in

currency

Registration price currency

data

The registration this data is associated with

data_by_field

display_full_name

Return the full name using the user's preferred name format.

email

The email of the registrant

event

The Event containing this registration

event_id

The ID of the event

first name

The first name of the registrant

friendly_id

The human-friendly ID for the object

full_name

Return the user's name in 'Firstname Lastname' notation.

classmethod get_all_for_event(event)

Retrieve all registrations in all registration forms of an event.

get_full_name (last_name_first=True, last_name_upper=False, abbrev_first_name=False)
Return the user's in the specified notation.

If not format options are specified, the name is returned in the 'Lastname, Firstname' notation.

Note: Do not use positional arguments when calling this method. Always use keyword arguments!

Parameters

- last_name_first if "lastname, firstname" instead of "firstname lastname" should be used
- last_name_upper if the last name should be all-uppercase
- abbrev_first_name if the first name should be abbreviated to use only the first character

get_personal_data()

has_conflict()

Check if there are other valid registrations for the same user.

This is intended for cases where this registration is currenly invalid (rejected or withdrawn) to determine whether it would be acceptable to restore it.

has_files

id

The ID of the object

is_active

is_cancelled

is_deleted

If the registration has been deleted

is_paid

Return whether the registration has been paid for.

is_publishable

is_ticket_blocked

Check whether the ticket is blocked by a plugin.

last name

The last name of the registrant

locator

Define a smart locator property.

This behaves pretty much like a normal read-only property and the decorated function should return a dict containing the necessary data to build a URL for the object.

This decorator should usually be applied to a method named locator as this name is required for *get_locator* to find it automatically when just passing the object.

If you need more than one locator, you can define it like this:

```
@locator_property
def locator(self):
    return {...}

@locator.other
def locator(self):
    return {...}
```

The other locator can then be accessed by passing obj.locator.other to the code expecting an object with a locator.

```
log(*args, **kwargs)
```

Log with prefilled metadata for the registration.

```
classmethod merge_users (target, source)
```

```
order_by_name = (<sqlalchemy.sql.functions.Function at 0x7fbafe364d60; lower>, <sqlalc
payment_dt
```

The date/time when the registration has been paid for.

price

The total price of the registration.

This includes the base price, the field-specific price, and the custom price adjustment for the registrant.

Return type Decimal

price_adjustment

The price modifier applied to the final calculated price

registration_form_id

The ID of the registration form

rejection_reason

If given a reason for rejection

```
render_base_price()
render_price()
render_price_adjustment()
sections with answered fields
```

state

The state a registration is in

submitted dt

The date/time when the registration was recorded

summary_data

Export registration data nested in sections and fields.

sync_state (_skip_moderation=True)

Sync the state of the registration.

ticket_uuid

The unique token used in tickets

transaction

The latest payment transaction associated with this registration

transaction_id

The ID of the latest payment transaction associated with this registration

Update the state of the registration for a given action.

The accepted kwargs are the possible actions. True means that the action occured and False that it was reverted.

user

user id

The ID of the user who registered

uuid

The unguessable ID for the object

```
class indico.modules.events.registration.models.registrations.RegistrationData(**kwargs)
    Bases: indico.core.storage.models.StoredFileMixin, sqlalchemy.orm.decl_api.
    Model
```

Data entry within a registration for a field in a registration form.

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```
add_file_date_column = False
```

content_type

The MIME type of the file.

created_dt = None

data

The submitted data for the field

extension

The extension of the file.

field_data

The associated field data object

```
field_data_id
    The ID of the field data

file
file_required = False
filename
    The name of the file.

friendly_data
get_friendly_data(**kwargs)
locator
```

Define a smart locator property.

This behaves pretty much like a normal read-only property and the decorated function should return a dict containing the necessary data to build a URL for the object.

This decorator should usually be applied to a method named locator as this name is required for *get_locator* to find it automatically when just passing the object.

If you need more than one locator, you can define it like this:

```
@locator_property
def locator(self):
    return {...}

@locator.other
def locator(self):
    return {...}
```

The other locator can then be accessed by passing obj.locator.other to the code expecting an object with a locator.

md5

An MD5 hash of the file.

Automatically assigned when save() is called.

```
price
```

```
registration_id
```

The ID of the registration

```
render_price()
search_data
size
```

The size of the file (in bytes).

Automatically assigned when *save()* is called.

```
storage_backend
storage_file_id
summary_data
user_data
```

class indico.modules.events.registration.models.registrations.RegistrationState
 Bases: indico.util.enum.RichIntEnum

```
An enumeration.
     complete = 1
     pending = 2
     rejected = 3
     unpaid = 5
     withdrawn = 4
class indico.modules.events.registration.models.form_fields.RegistrationFormField(**kwargs)
     \textbf{Bases:} indico.modules.events.registration.models.items.RegistrationFormItem
     A registration form field.
     A simple constructor that allows initialization from kwargs.
     Sets attributes on the constructed instance using the names and values in kwargs.
     Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any
     mapped columns or relationships.
     calculate_price (registration_data)
     children
     current_data
     current data id
     data
     data_versions
     description
     field_impl
         Gets the implementation of the field.
             Returns An instance of a RegistrationFormFieldBase subclass
     get_friendly_data(registration_data, **kwargs)
     html field name
     id
     input_type
     is_deleted
     is_enabled
     is_manager_only
     is_required
     locator
     parent_id
     personal_data_type
     position
     registration_form_id
```

title

```
type
versioned_data
```

view data

Return object with data that Angular can understand.

class indico.modules.events.registration.models.form_fields.RegistrationFormFieldData(**kwa
Bases: sqlalchemy.orm.decl_api.Model

Description of a registration form field.

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

field_id

The ID of the registration form field

id

The ID of the object

versioned_data

Data describing the field

RegistrationFormField

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```
children
current_data
current_data_id
data
data_versions
description
html_field_name
id
input_type
is_deleted
is_enabled
is_manager_only
is_required
parent_id
```

personal_data_type

```
position
     registration_form_id
     title
     type
     view data
          Return object with data that Angular can understand.
class indico.modules.events.registration.models.forms.ModificationMode
     Bases: indico.util.enum.RichIntEnum
     An enumeration.
     allowed_always = 1
     allowed_until_approved = 4
     allowed_until_payment = 2
     not allowed = 3
class indico.modules.events.registration.models.forms.RegistrationForm(**kwargs)
     Bases: sqlalchemy.orm.decl_api.Model
     A registration form for an event.
     A simple constructor that allows initialization from kwargs.
     Sets attributes on the constructed instance using the names and values in kwargs.
     Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any
     mapped columns or relationships.
     active_fields
     active_registrations
     attach_ical
         If the completed registration email should include the event's iCalendar file.
          The base fee users have to pay when registering
     can_submit (user)
     contact info
         Contact information for registrants
     currency
          Currency for prices in the registration form
     disabled sections
     end dt
          Datetime when the registration form is closed
     event
          The Event containing this registration form
     event id
          The ID of the event
     form items
```

get_personal_data_field_id (personal_data_type)

Return the field id corresponding to the personal data field with the given name.

get_registration (user=None, uuid=None, email=None)

Retrieve registrations for this registration form by user or uuid.

has_ended

has_started

id

The ID of the object

identifier

introduction

invitations

The registration invitations associated with this form

is_active

is deleted

Whether the registration has been marked as deleted

is_modification_allowed(registration)

Check whether a registration may be modified.

is modification open

is_open

is_participation

Whether it's the 'Participants' form of a meeting/lecture

is_scheduled

limit_reached

locator

manager_notification_recipients

List of emails that should receive management notifications

manager_notifications_enabled

Whether the manager notifications for this event are enabled

message_complete

Custom message to include in emails for complete registrations

message_pending

Custom message to include in emails for pending registrations

message_unpaid

Custom message to include in emails for unpaid registrations

moderation_enabled

Whether registrations must be approved by a manager

modification_end_dt

Datetime when the modification period is over

modification_mode

Whether registration modifications are allowed

name

```
notification sender address
         Notifications sender address
     principal_order = 2
     principal_type = 8
     publish checkin enabled
          Whether checked-in status should be displayed in the event pages and participant list
     publish_registration_count
          Whether to display the number of registrations
     publish_registrations_enabled
          Whether registrations should be displayed in the participant list
     registration_limit
          Maximum number of registrations allowed
     registrations
         The registrations associated with this form
     render_base_price()
     require_login
          Whether users must be logged in to register
     require_user
          Whether registrations must be associated with an Indico account
     sections
     start_dt
         Datetime when the registration form is open
     ticket on email
          Whether to send tickets by e-mail
     ticket_on_event_page
          Whether to show a ticket download link on the event homepage
     ticket_on_summary_page
          Whether to show a ticket download link on the registration summary page
     ticket template
          The template used to generate tickets
     ticket_template_id
          The ID of the template used to generate tickets
     tickets enabled
          Whether tickets are enabled for this form
     title
          The title of the registration form
class indico.modules.events.registration.models.invitations.InvitationState
     Bases: indico.util.enum.RichIntEnum
     An enumeration.
     accepted = 1
     declined = 2
     pending = 0
```

class indico.modules.events.registration.models.invitations.RegistrationInvitation(**kwargs)
 Bases: sqlalchemy.orm.decl_api.Model

An invitation for someone to register.

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwarqs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

affiliation

The affiliation of the invited person

email

The email of the invited person

first_name

The first name of the invited person

id

The ID of the invitation

last name

The last name of the invited person

locator

Define a smart locator property.

This behaves pretty much like a normal read-only property and the decorated function should return a dict containing the necessary data to build a URL for the object.

This decorator should usually be applied to a method named locator as this name is required for *get_locator* to find it automatically when just passing the object.

If you need more than one locator, you can define it like this:

```
@locator_property
def locator(self):
    return {...}

@locator.other
def locator(self):
    return {...}
```

The other locator can then be accessed by passing obj.locator.other to the code expecting an object with a locator.

registration

The associated registration

registration_form_id

The ID of the registration form

registration_id

The ID of the registration (if accepted)

skip_moderation

Whether registration moderation should be skipped

state

The state of the invitation

uuid The UUID of the invitation class indico.modules.events.registration.models.items.PersonalDataType Bases: int, indico.util.enum.IndicoEnum Description of the personal data items that exist on every registration form. FIELD_DATA = [(<PersonalDataType.first_name: 2>, {'title': 'First Name', 'input_type address = 6affiliation = 4column The Registration column in which the value is stored in addition to the regular registration data entry. country = 8 email = 1first_name = 2 get_title() is_required last name = 3phone = 7position = 9 title = 5class indico.modules.events.registration.models.items.RegistrationFormItem(**kwargs) Bases: sqlalchemy.orm.decl_api.Model Generic registration form item. A simple constructor that allows initialization from kwargs. Sets attributes on the constructed instance using the names and values in kwargs. Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships. children current data The latest value of the field current data id The ID of the latest data data unversioned field data data_versions The list of all versions of the field data description Description of this field

7.1. API reference 223

id

The ID of the object

```
input_type
         input type of this field
     is_deleted
         Whether field has been "deleted"
     is enabled
         Whether the field is enabled
     is field
     is_manager_only
         if the section is only accessible to managers
     is_required
         determines if the field is mandatory
     is_section
     is_visible
     parent id
         The ID of the parent form item
     personal_data_type
         The type of a personal data field
     position
     registration_form_id
         The ID of the registration form
     title
         The title of this field
     type
         The type of the registration form item
     view_data
         Return object with data that Angular can understand.
class indico.modules.events.registration.models.items.RegistrationFormItemType
     Bases: int.indico.util.enum.IndicoEnum
     An enumeration.
     field = 2
     field_pd = 5
     section = 1
     section_pd = 4
     text = 3
class indico.modules.events.registration.models.items.RegistrationFormPersonalDataSection(
     Bases:
                                    indico.modules.events.registration.models.items.
     RegistrationFormSection
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```
children
     current_data
     current_data_id
     data
     data_versions
     description
     id
     input_type
     is_deleted
     is enabled
     is_manager_only
     is_required
     parent_id
     personal_data_type
     position
     registration_form_id
     title
     type
     view data
         Return object with data that Angular can understand.
class indico.modules.events.registration.models.items.RegistrationFormSection(**kwargs)
     Bases: indico.modules.events.registration.models.items.RegistrationFormItem
     Registration form section that can contain fields and text.
     A simple constructor that allows initialization from kwargs.
     Sets attributes on the constructed instance using the names and values in kwargs.
     Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any
     mapped columns or relationships.
     active_fields
     children
     current data
     current_data_id
     data
     data_versions
     description
     fields
     id
     input_type
```

```
is deleted
     is_enabled
     is_manager_only
     is_required
     locator
     own data
     parent_id
     personal_data_type
    position
     registration_form_id
     title
     type
     view data
         Return object with data that Angular can understand.
class indico.modules.events.registration.models.items.RegistrationFormText(**kwargs)
     \textbf{Bases:} indico.modules.events.registration.models.items.RegistrationFormItem
     Text to be displayed in registration form sections.
     A simple constructor that allows initialization from kwargs.
     Sets attributes on the constructed instance using the names and values in kwargs.
     Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any
     mapped columns or relationships.
     children
     current_data
     current_data_id
     data
     data_versions
     description
     id
     input_type
     is deleted
     is_enabled
     is_manager_only
     is_required
     locator
     parent_id
     personal_data_type
     position
```

```
registration_form_id

title

type

view_data

Return object with data that Angular can understand.
```

Utilities

Check whether an email address is suitable for registration.

Parameters

- regform The registration form
- **email** The email address

Generate a spreadsheet data from a given registration list.

- registration The existing registration (in case of modification)
- management If it's a manager adding a new registration

indico.modules.events.registration.util.generate_spreadsheet_from_registrations(registrations,

regform_items, static_items)

Parameters

- registrations The list of registrations to include in the file
- regform_items The registration form items to be used as columns
- static_items Registration form information as extra columns

```
indico.modules.events.registration.util.generate_ticket (registration)
indico.modules.events.registration.util.generate_ticket_qr_code (registration)
Generate a Pillow Image with a QR Code encoding a check-in ticket.
```

Parameters registration - corresponding Registration object

Get registration forms with information about user registrations.

Parameters

- **event** the *Event* to get registration forms for
- user A User
- with_registrations Whether to return the user's registration instead of just whether they have one
- only_in_acl Whether to include only registration forms that are in the event's ACL

Get regforms and the associated registrations for an event+user.

Parameters

- **event** the *Event* to get registration forms for
- user A User
- include_scheduled Whether to include scheduled but not open registration forms
- only_in_acl Whether to include only registration forms that are in the event's ACL

Returns A tuple, which includes: - All registration forms which are scheduled, open or registered. - A dict mapping all registration forms to the user's registration if they have one.

indico.modules.events.registration.util.get_events_registered(user, dt=None) Get the IDs of events where the user is registered.

Parameters

- user A User
- dt Only include events taking place on/after that date

Returns A set of event ids

indico.modules.events.registration.util.get_published_registrations(event)

Get a list of published registrations for an event.

Parameters event – the *Event* to get registrations for

Returns list of *Registration* objects

```
indico.modules.events.registration.util.get_registered_event_persons(event)
Get all registered EventPersons of an event.
```

```
indico.modules.events.registration.util.get_title_uuid(regform, title)
     Convert a string title to its UUID value.
     If the title does not exist in the title PD field, it will be ignored and returned as None.
indico.modules.events.registration.util.import_registrations_from_csv (regform,
                                                                                     fileobj,
                                                                                     skip moderation=True,
                                                                                     no-
                                                                                     tify_users=False)
     Import event registrants from a CSV file into a form.
indico.modules.events.registration.util.make_registration_form(regform, man-
                                                                             agement=False,
                                                                             registra-
                                                                             tion=None)
     Create a WTForm based on registration form fields.
indico.modules.events.registration.util.modify_registration(registration,
                                                                                      data,
                                                                         management=False,
                                                                         notify_user=True)
indico.modules.events.registration.util.serialize_registration_form(regform)
     Serialize registration form to JSON-like object.
indico.modules.events.registration.util.update_regform_item_positions(regform)
     Update positions when deleting/disabling an item in order to prevent gaps.
indico.modules.events.registration.util.url rule to angular (endpoint)
     Convert a flask-style rule to angular style.
Placeholders
class indico.modules.events.registration.placeholders.registrations.EventLinkPlaceholder
     Bases: indico.util.placeholders.Placeholder
     description = 1'Link to the event'
     name = 'event link'
     classmethod render (regform, registration)
         Convert the placeholder to a string.
         When a placeholder contains HTML that should not be escaped, the returned value should be returned as
         a markupsafe. Markup instance instead of a plain string.
         Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwargs.
             Parameters kwargs – arguments specific to the placeholder's context
class indico.modules.events.registration.placeholders.registrations.EventTitlePlaceholder
     Bases: indico.util.placeholders.Placeholder
     description = 1'The title of the event'
     name = 'event title'
     classmethod render (regform, registration)
```

When a placeholder contains HTML that should not be escaped, the returned value should be returned as

229

Convert the placeholder to a string.

7.1. API reference

a markupsafe. Markup instance instead of a plain string.

Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwargs.

Parameters kwargs – arguments specific to the placeholder's context

```
\textbf{class} \text{ indico.} \textbf{modules.} \textbf{events.} \textbf{registration.} \textbf{placeholders.} \textbf{registrations.} \textbf{FieldPlaceholder} \\ \textbf{Bases:} \text{ indico.} \textbf{util.} \textbf{placeholders.} \textbf{ParametrizedPlaceholder} \\
```

```
advanced = True
```

description = None

classmethod iter_param_info(regform, registration)

Yield information for known params.

Each item yielded must be a (value, description) tuple.

Parameters kwargs – arguments specific to the placeholder's context

```
name = 'field'
```

param_required = True

param_restricted = True

classmethod render (param, registration)

Convert the placeholder to a string.

When a placeholder contains HTML that should not be escaped, the returned value should be returned as a markupsafe. Markup instance instead of a plain string.

Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwarqs.

Parameters kwargs – arguments specific to the placeholder's context

 $\textbf{class} \ \, \text{indico.modules.events.registration.placeholders.registrations.} \\ \textbf{Eases:} \ \, \text{indico.util.placeholders.Placeholder} \\$

```
description = l'First name of the person'
```

name = 'first name'

classmethod render(regform, registration)

Convert the placeholder to a string.

When a placeholder contains HTML that should not be escaped, the returned value should be returned as a markupsafe. Markup instance instead of a plain string.

Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwargs.

Parameters kwargs – arguments specific to the placeholder's context

class indico.modules.events.registration.placeholders.registrations.**IDPlaceholder**Bases: indico.util.placeholders.Placeholder

```
description = 1'The ID of the registration'
```

name = 'id'

classmethod render(regform, registration)

Convert the placeholder to a string.

When a placeholder contains HTML that should not be escaped, the returned value should be returned as a markupsafe. Markup instance instead of a plain string.

Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwargs.

Parameters kwargs – arguments specific to the placeholder's context

```
class indico.modules.events.registration.placeholders.registrations.LastNamePlaceholder
     Bases: indico.util.placeholders.Placeholder
     description = 1'Last name of the person'
     name = 'last name'
     classmethod render (regform, registration)
         Convert the placeholder to a string.
         When a placeholder contains HTML that should not be escaped, the returned value should be returned as
         a markupsafe. Markup instance instead of a plain string.
         Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwarqs.
             Parameters kwargs – arguments specific to the placeholder's context
class indico.modules.events.registration.placeholders.registrations.LinkPlaceholder
     Bases: indico.util.placeholders.Placeholder
     description = 1'The link to the registration details'
     name = 'link'
     classmethod render(regform, registration)
         Convert the placeholder to a string.
         When a placeholder contains HTML that should not be escaped, the returned value should be returned as
         a markupsafe. Markup instance instead of a plain string.
         Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwargs.
             Parameters kwargs – arguments specific to the placeholder's context
class indico.modules.events.registration.placeholders.registrations.RejectionReasonPlaceholders.
     Bases: indico.util.placeholders.Placeholder
     description = 1'The reason why the registration was rejected'
     name = 'rejection_reason'
     classmethod render (regform, registration)
         Convert the placeholder to a string.
         When a placeholder contains HTML that should not be escaped, the returned value should be returned as
         a markupsafe. Markup instance instead of a plain string.
         Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwargs.
             Parameters kwargs – arguments specific to the placeholder's context
class indico.modules.events.registration.placeholders.invitations.FirstNamePlaceholder
     Bases: indico.util.placeholders.Placeholder
     description = 1'First name of the person'
     name = 'first_name'
     classmethod render (invitation)
         Convert the placeholder to a string.
         When a placeholder contains HTML that should not be escaped, the returned value should be returned as
         a markupsafe. Markup instance instead of a plain string.
         Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwarqs.
```

Parameters kwargs – arguments specific to the placeholder's context

```
class indico.modules.events.registration.placeholders.invitations.InvitationLinkPlaceholder
     Bases: indico.util.placeholders.Placeholder
     description = 1'Link to accept/decline the invitation'
     name = 'invitation link'
     classmethod render(invitation)
         Convert the placeholder to a string.
         When a placeholder contains HTML that should not be escaped, the returned value should be returned as
         a markupsafe. Markup instance instead of a plain string.
         Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwarqs.
             Parameters kwargs – arguments specific to the placeholder's context
     required = True
class indico.modules.events.registration.placeholders.invitations.LastNamePlaceholder
     Bases: indico.util.placeholders.Placeholder
     description = 1'Last name of the person'
     name = 'last name'
     classmethod render (invitation)
         Convert the placeholder to a string.
         When a placeholder contains HTML that should not be escaped, the returned value should be returned as
         a markupsafe. Markup instance instead of a plain string.
         Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwargs.
             Parameters kwargs – arguments specific to the placeholder's context
Settings
class indico.modules.events.registration.settings.RegistrationSettingsProxy (module,
                                                                                             de-
                                                                                             faults=None,
                                                                                             strict=True,
                                                                                             acls=None,
                                                                                             con-
                                                                                             vert-
                                                                                             ers=None)
     Bases: indico.modules.events.settings.EventSettingsProxy
     Store per-event registration settings.
     get_participant_list_columns (event, form=None)
     get_participant_list_form_ids (event)
     set_participant_list_columns (event, columns, form=None)
     set_participant_list_form_ids (event, form_ids)
```

Statistics

class indico.modules.events.registration.stats.AccommodationStats (field)

Bases: indico.modules.events.registration.stats.FieldStats, indico.modules.events.registration.stats.StatsBase

class indico.modules.events.registration.stats.Cell

Bases: indico.modules.events.registration.stats.Cell

Hold data and type for a cell of a stats table.

The table below indicates the valid types and expected data.

type	data
str	str – string value
progress	(int, str) – a tuple with the progress (a value between 0 and 1) and a label
progress-stacked	([int], str) – a tuple with a list of progresses (values which must sum up to 1) and a label
currency	float – numeric value
icon	str – icon name from _icons.scss
default	None – renders a default cell with an — (use Cell(type='str') for an empty cell)

Parameters

- type str The type of data in the cell
- data The data for the cell
- colspan int HTML colspan value for the cell
- classes [str] HTML classes to apply to the cell
- qtip str content for qtip

class indico.modules.events.registration.stats.DataItem

 $Bases: \verb|indico.modules.events.reg| is tration.stats.DataItem|$

Hold the aggregation of some data, intended for stats tables as a aggregation from which to generate cells.

Parameters

- regs int number of registrant
- attendance int number of people attending
- capacity int maximum number of people allowed to attend (θ if unlimited)
- billable bool whether the item is billable to the or not
- cancelled bool whether the item is cancelled or not
- price str the price of the item
- **fixed_price** bool *True* if the price is per registrant, *False* if accompanying guests must pay as well.
- paid int number of registrants who paid
- paid_amount float amount already paid by registrants
- unpaid int number of registrants who haven't paid
- unpaid_amount float amount not already paid by registrants

Hold stats for a registration form field.

get_table()

Return a table containing the stats for each item.

Returns dict – A table with a list of head cells (key: 'head') and a list of rows (key: 'rows') where each row is a list of cells.

is_currency_shown

```
\textbf{class} \texttt{ indico.modules.events.registration.stats.} \textbf{OverviewStats} (\textit{regform})
```

 $Bases: \verb|indico.modules.events.reg| is tration.stats. Stats Base$

Generic stats for a registration form.

Bases: object

Base class for registration form statistics.

Parameters

- title str the title for the stats box
- **subtitle** str the subtitle for the stats box
- type str the type used in Jinja to display the stats

is_currency_shown

7.1.14 Reminder

Todo: Docstrings (module)

Models

Email reminders for events.

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwarqs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

all_recipients

Return all recipients of the notifications.

This includes both explicit recipients and, if enabled, participants/speakers of the event.

attach ical

If the notification should include the event's iCalendar file.

created dt

The date/time when the reminder was created

creator

The user who created the reminder

creator_id

The ID of the user who created the reminder

event

The Event this reminder is associated with

event id

The ID of the event

event_start_delta

How long before the event start the reminder should be sent This is needed to update the *scheduled_dt* when changing the start time of the event.

id

The ID of the reminder

include_description

If the notification should include the event's description.

include summary

If the notification should include a summary of the event's schedule.

is_overdue

is relative

Return if the reminder is relative to the event time.

is_sent

If the reminder has been sent

locator

message

Custom message to include in the email

recipients

The recipients of the notification

reply_to_address

The address to use as Reply-To in the notification email.

scheduled_dt

The date/time when the reminder should be sent

send()

Send the reminder to its recipients.

send_to_participants

If the notification should also be sent to all event participants

send_to_speakers

If the notification should also be sent to all event speakers

Utilities

Return the template module for the reminder email.

Parameters

- event The event
- with_agenda If the event's agenda should be included
- note A custom message to include in the email

7.1.15 Request

Todo: Docstrings (module)

Models

```
class indico.modules.events.requests.models.requests.Request(**kwargs)
    Bases: sqlalchemy.orm.decl_api.Model
```

Event-related requests, e.g. for a webcast.

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

can_be_modified

Determine if the request can be modified or if a new one must be sent.

comment

an optional comment for an accepted/rejected request

created_by_id

ID of the user creating the request

created_by_user

The user who created the request

${\tt created_dt}$

the date/time the request was created

data

plugin-specific data of the request

definition

event

The Event this agreement is associated with

event id

ID of the event

classmethod find_latest_for_event (event, type_=None)

Return the latest requests for a given event.

Parameters

- event the event to find the requests for
- type the request type to retrieve, or *None* to get all

Returns a dict mapping request types to a *Request* or if *type*_ was specified, a single *Request* or *None*

```
id
```

request ID

locator

processed_by_id

ID of the user processing the request

processed_by_user

The user who processed the request

processed_dt

the date/time the request was accepted/rejected

state

the requests's date, a RequestState value

type

the request type name

 $\textbf{class} \ \, \texttt{indico.modules.events.requests.models.requests.RequestState}$

Bases: indico.util.enum.RichIntEnum

An enumeration.

accepted = 1

pending = 0

rejected = 2

withdrawn = 3

Utilities

```
indico.modules.events.requests.util.get_request_definitions()
    Return a dict of request definitions.
```

```
indico.modules.events.requests.util.is_request_manager(user)
    Check if the user manages any request types.
```

```
\begin{tabular}{ll} \textbf{class} & \verb"indico.modules.events.requests.base.Request Definition Base \\ & Bases: \verb"object" \\ \end{tabular}
```

A service request which can be sent by event managers.

```
classmethod accept (req, data, user)
```

Accept the request.

To ensure that additional data is saved, this method should call :method:'manager_save'.

Parameters

- req the Request of the request
- data the form data from the management form

• user – the user processing the request

classmethod can_be_managed(user)

Check whether the user is allowed to manage this request type.

Parameters user - a User

classmethod create_form (event, existing_request=None)

Create the request form.

Parameters

- event the event the request is for
- existing_request the Request if there's an existing request of this type

Returns an instance of an IndicoForm subclass

${\tt classmethod\ create_manager_form}\,(\textit{req})$

Create the request management form.

Parameters req - the Request of the request

Returns an instance of an IndicoForm subclass

form = None

the IndicoForm to use for the request form

form_defaults = {}

default values to use if there's no existing request

classmethod get manager notification emails()

Return the email addresses of users who manage requests of this type.

The email addresses are used only for notifications. It usually makes sense to return the email addresses of the users who pass the :method:'can_be_managed' check.

Returns set of email addresses

classmethod get_notification_reply_email()

Return the Reply-To e-mail address for notifications.

classmethod get_notification_template (name, **context)

Get the template module for a notification email.

Parameters

- name the template name
- **context** data passed to the template

manager form

the IndicoForm to use for the request manager form

alias of RequestManagerForm

classmethod manager_save(req, data)

Save management-specific data.

This method is called when the management form is submitted without accepting/rejecting the request (which is guaranteed to be already accepted or rejected).

Parameters

- req the Request of the request
- data the form data from the management form

name = None

the unique internal name of the request type

plugin = None

the plugin containing this request definition - assigned automatically

classmethod reject (req, data, user)

Reject the request.

To ensure that additional data is saved, this method should call :method:'manager save'.

Parameters

- req the Request of the request
- data the form data from the management form
- user the user processing the request

classmethod render_form(event, **kwargs)

Render the request form.

Parameters

- **event** the event the request is for
- **kwargs** arguments passed to the template

classmethod send(req, data)

Send a new/modified request.

Parameters

- req the Request of the request
- data the form data from the request form

title = None

the title of the request type as shown to users

classmethod withdraw(req, notify_event_managers=True)

Withdraw the request.

Parameters

- req the Request of the request
- notify_event_managers if event managers should be notified

7.1.16 Session

Todo: Docstrings (module, models, operations, utilities)

Models

```
class indico.modules.events.sessions.models.sessions.Session(**kwargs)
Bases: indico.core.db.sqlalchemy.descriptions.DescriptionMixin, indico.core.
db.sqlalchemy.colors.ColorMixin, indico.core.db.sqlalchemy.protection.
```

ProtectionManagersMixin, indico.core.db.sqlalchemy.locations.LocationMixin,

```
indico.core.db.sqlalchemy.attachments.AttachedItemsMixin,
                                                                    indico.core.db.
sqlalchemy.notes.AttachedNotesMixin,sqlalchemy.orm.decl_api.Model
ATTACHMENT_FOLDER_ID_COLUMN = 'session_id'
PRELOAD_EVENT_ATTACHED_ITEMS = True
PRELOAD EVENT NOTES = True
access_key = None
acl_entries
allow_relationship_preloading = True
background_color
blocks
can_manage_blocks (user, allow_admin=True)
    Check whether a user can manage session blocks.
    This only applies to the blocks themselves, not to contributions inside them.
can_manage_contributions (user, allow_admin=True)
    Check whether a user can manage contributions within the session.
code
conveners
default_colors = ColorTuple(text='202020', background='e3f2d3')
default_contribution_duration
default_render_mode = 2
disallowed_protection_modes = frozenset()
end_dt
event
event_id
friendly id
    The human-friendly ID for the session
get_non_inheriting_objects()
    Get a set of child objects that do not inherit protection.
id
inherit_location
inheriting_have_acl = True
is_deleted
is_poster
location_backref_name = 'sessions'
location_parent
    The parent object to consult if the location is inherited.
```

locator

Define a smart locator property.

This behaves pretty much like a normal read-only property and the decorated function should return a dict containing the necessary data to build a URL for the object.

This decorator should usually be applied to a method named locator as this name is required for *get_locator* to find it automatically when just passing the object.

If you need more than one locator, you can define it like this:

```
@locator_property
def locator(self):
    return {...}

@locator.other
def locator(self):
    return {...}
```

The other locator can then be accessed by passing obj.locator.other to the code expecting an object with a locator.

```
note
    own address
    own_no_access_contact = None
    own_room
    own_room_id
    own_room_name
    own_venue
    own_venue_id
    own venue name
    possible_render_modes = {<RenderMode.markdown:</pre>
    classmethod preload_acl_entries(event)
    protection_mode
    protection_parent
        The parent object to consult for ProtectionMode.inheriting.
    render_mode = 2
    session
        Convenience property so all event entities have it.
    start_dt
    text_color
    title
    type
    type_id
class indico.modules.events.sessions.models.blocks.SessionBlock(**kwargs)
             indico.core.db.sqlalchemy.locations.LocationMixin, sqlalchemy.orm.
    decl_api.Model
```

```
can_access (user, allow_admin=True)
can_edit_note (user)
can_manage (user, allow_admin=True)
can_manage_attachments (user)
code
contribution_count
duration
end_dt
event
full_title
has_note
id
inherit_location
location_backref_name = 'session_blocks'
location_parent
```

The parent object to consult if the location is inherited.

locator

Define a smart locator property.

This behaves pretty much like a normal read-only property and the decorated function should return a dict containing the necessary data to build a URL for the object.

This decorator should usually be applied to a method named locator as this name is required for *get_locator* to find it automatically when just passing the object.

If you need more than one locator, you can define it like this:

```
@locator_property
def locator(self):
    return {...}

@locator.other
def locator(self):
    return {...}
```

The other locator can then be accessed by passing obj.locator.other to the code expecting an object with a locator.

```
note
own_address
own_room
own_room_id
own_room_name
own_venue
own_venue_id
own_venue_name
```

```
person links
         Persons associated with this session block
    session_id
    slug
    start dt
    title
class indico.modules.events.sessions.models.persons.SessionBlockPersonLink(*args,
                                                                                       **kwargs)
    Bases: indico.modules.events.models.persons.PersonLinkBase
    Association between EventPerson and SessionBlock.
    Also known as a 'session convener'.
    display_order
    id
    object_relationship_name = 'session_block'
    person
    person_id
    person_link_backref_name = 'session_block_links'
    person_link_unique_columns = ('session_block_id',)
    session_block_id
class indico.modules.events.sessions.models.principals.SessionPrincipal(**kwargs)
                  indico.core.db.sqlalchemy.principals.PrincipalPermissionsMixin,
    sqlalchemy.orm.decl_api.Model
    A simple constructor that allows initialization from kwargs.
    Sets attributes on the constructed instance using the names and values in kwarqs.
    Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any
    mapped columns or relationships.
    allow_category_roles = True
    allow emails = True
    allow_event_roles = True
    allow_registration_forms = True
    category_role
    category_role_id
    disallowed_protection_modes = frozenset()
    email
    event role
    event_role_id
    full access
    id
         The ID of the acl entry
```

```
ip_network_group = None
    ip_network_group_id = None
    local_group
    local_group_id
    multipass_group_name
    multipass_group_provider
    permissions
    principal_backref_name = 'in_session_acls'
    principal_for = 'Session'
    read_access
    registration_form
    registration_form_id
    session id
        The ID of the associated session
    type
    unique_columns = ('session_id',)
    user
    user id
Operations
indico.modules.events.sessions.operations.create_session(event, data)
    Create a new session with the information passed in the data argument.
indico.modules.events.sessions.operations.create_session_block (session_, data)
indico.modules.events.sessions.operations.delete_session(event_session)
    Delete session from the event.
indico.modules.events.sessions.operations.delete_session_block(session_block)
indico.modules.events.sessions.operations.update_session(event_session, data)
    Update a session based on the information in the data.
indico.modules.events.sessions.operations.update_session_block (session_block,
                                                                       data)
    Update a session block with data passed in the data argument.
indico.modules.events.sessions.operations.update_session_coordinator_privs (event,
                                                                                     data)
Utilities
class indico.modules.events.sessions.util.SessionListToPDF (sessions)
    Bases: indico.legacy.pdfinterface.base.PDFBase
    getBody (story=None)
         Add the content to the story.
```

Check whether a user can manage any sessions in an event.

```
indico.modules.events.sessions.util.generate_pdf_from_sessions (sessions)
Generate a PDF file from a given session list.
```

indico.modules.events.sessions.util.generate_spreadsheet_from_sessions (sessions)
Generate spreadsheet data from a given session list.

Parameters sessions – The sessions to include in the spreadsheet

```
indico.modules.events.sessions.util.get_events_with_linked_sessions(user,
```

t=None

Return a dict with keys representing event_id and the values containing data about the user rights for sessions within the event.

Parameters

- user A User
- dt Only include events taking place on/after that date

```
indico.modules.events.sessions.util.get_session_timetable_pdf (sess, **kwargs)
indico.modules.events.sessions.util.get_sessions_for_user (event, user)
indico.modules.events.sessions.util.has_sessions_for_user (event, user)
indico.modules.events.sessions.util.render_session_type_row (session_type)
indico.modules.events.sessions.util.serialize_session_for_ical (sess)
indico.modules.events.sessions.util.session_coordinator_priv_enabled (event, priv)
```

Check whether a coordinator privilege is enabled.

Currently the following privileges are available:

- · manage-contributions
- · manage-blocks

Parameters

- event The Event to check for
- priv The name of the privilege

7.1.17 Survey

Todo: Docstrings (module, models)

Models

```
class indico.modules.events.surveys.models.surveys.Survey (**kwargs)
    Bases: sqlalchemy.orm.decl_api.Model
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

anonymous

Whether submissions will not be linked to a user

```
can submit (user)
close()
end dt
```

Datetime when the survey is closed

event

The Event containing this survey

event_id

The ID of the event

has_ended

has_started

id

The ID of the survey

introduction

is active

is deleted

Whether the survey has been marked as deleted

is_visible

items

The list of items

limit_reached

locator

Define a smart locator property.

This behaves pretty much like a normal read-only property and the decorated function should return a dict containing the necessary data to build a URL for the object.

This decorator should usually be applied to a method named locator as this name is required for get_locator to find it automatically when just passing the object.

If you need more than one locator, you can define it like this:

```
@locator_property
def locator(self):
   return {...}
@locator.other
def locator(self):
   return {...}
```

The other locator can then be accessed by passing obj.locator.other to the code expecting an object with a locator.

new submission emails

Email addresses to notify about new submissions

```
notifications enabled
         Whether to send survey related notifications to users
     notify_participants
         Whether include Participants / Registrants when sending start notifications
     open()
     partial_completion
         Whether answers can be saved without submitting the survey
     private
     questions
         The list of questions
     require_user
         Whether submissions must be done by logged users
     sections
         The list of sections
     send_start_notification()
     send_submission_notification(submission)
     start dt
         Datetime when the survey is open
     start_notification_emails
         Email addresses to notify about the start of a survey
     start_notification_recipients
         Return all recipients of the notifications.
         This includes both explicit recipients and, if enabled, participants of the event.
     start_notification_sent
         Whether start notification has been already sent
     state
     submission limit
         Maximum number of submissions allowed
     submissions
         The list of submissions
     title
         The title of the survey
     uuid
class indico.modules.events.surveys.models.surveys.SurveyState
     Bases: indico.util.enum.IndicoEnum
     An enumeration.
     active_and_answered = 4
     active_and_clean = 3
     finished = 5
     limit reached = 6
     not ready = 1
```

ready_to_open = 2

```
class indico.modules.events.surveys.models.items.SurveyItem(**kwargs)
     Bases: indico.core.db.sqlalchemy.descriptions.DescriptionMixin, sqlalchemy.
     orm.decl_api.Model
     A simple constructor that allows initialization from kwargs.
     Sets attributes on the constructed instance using the names and values in kwargs.
     Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any
     mapped columns or relationships.
     default_render_mode = 2
     display_as_section
          If a section should be rendered as a section
     field_data
          Field-specific data (such as choices for multi-select fields)
     field type
          The type of the field used for the question
     id
          The ID of the item
     is_required
          If the question must be answered (wtforms DataRequired)
          The ID of the parent section item (NULL for top-level items, i.e. sections)
     position
          The position of the item in the survey form
     possible_render_modes = {<RenderMode.markdown:</pre>
     render_mode = 2
     survey_id
          The ID of the survey
     title
          The title of the item
     to_dict()
          Return a json-serializable representation of this object.
          Subclasses must add their own data to the dict.
     type
          The type of the survey item
class indico.modules.events.surveys.models.items.SurveyItemType
     Bases: int, indico.util.enum.IndicoEnum
     An enumeration.
     question = 1
     section = 2
     text = 3
```

```
class indico.modules.events.surveys.models.items.SurveyQuestion(**kwargs)
     Bases: indico.modules.events.surveys.models.items.SurveyItem
     A simple constructor that allows initialization from kwargs.
     Sets attributes on the constructed instance using the names and values in kwargs.
     Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any
     mapped columns or relationships.
     display_as_section
     field
     field_data
     field_type
     get_summary (**kwargs)
          Return the summary of answers submitted for this question.
     id
     is_required
     locator
     not_empty_answers
     parent id
     position
     render_mode = 2
     survey_id
     title
     to dict()
          Return a json-serializable representation of this object.
          Subclasses must add their own data to the dict.
     type
class indico.modules.events.surveys.models.items.SurveySection(**kwargs)
     Bases: indico.modules.events.surveys.models.items.SurveyItem
     A simple constructor that allows initialization from kwargs.
     Sets attributes on the constructed instance using the names and values in kwarqs.
     Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any
     mapped columns or relationships.
     children
          The child items of this section
     display_as_section
     field data
     field_type
     id
     is_required
```

```
locator
     parent_id
     position
     render mode = 2
     survey_id
     title
     to_dict()
          Return a json-serializable representation of this object.
          Subclasses must add their own data to the dict.
     type
class indico.modules.events.surveys.models.items.SurveyText(**kwargs)
     Bases: indico.modules.events.surveys.models.items.SurveyItem
     A simple constructor that allows initialization from kwargs.
     Sets attributes on the constructed instance using the names and values in kwargs.
     Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any
     mapped columns or relationships.
     display_as_section
     field_data
     field_type
     id
     is required
     locator
     parent_id
     position
     render mode = 2
     survey_id
     title
     to_dict()
          Return a json-serializable representation of this object.
          Subclasses must add their own data to the dict.
     type
class indico.modules.events.surveys.models.submissions.SurveyAnswer(**kwargs)
     Bases: sqlalchemy.orm.decl_api.Model
     A simple constructor that allows initialization from kwargs.
     Sets attributes on the constructed instance using the names and values in kwargs.
     Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any
     mapped columns or relationships.
```

answer_data

data

The user's answer (no, not 42!) to the question

is_empty

question

The list of answers

question_id

The ID of the question

submission_id

The ID of the submission

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

answers

The list of answers

friendly_id

The human-friendly ID of the submission

id

The ID of the submission

is_anonymous

Whether the survey submission is anonymous

$\verb"is_submitted"$

Whether the survey was submitted

locator

pending_answers

List of non-submitted answers

submitted dt

The date/time when the survey was submitted

survey_id

The ID of the survey

user

The user who submitted the survey

user_id

The ID of the user who submitted the survey

Operations

```
indico.modules.events.surveys.operations.add_survey_question (section, field_cls data)

Add a question to a survey.
```

1

Parameters

- **section** The *SurveySection* to which the question will be added.
- **field cls** The field class of this question.
- data The *FieldConfigForm.data* to populate the question with.

Returns The added *SurveyQuestion*.

indico.modules.events.surveys.operations.add_survey_section(survey, data) Add a section to a survey.

Parameters

- **survey** The *Survey* to which the section will be added.
- data Attributes of the new SurveySection.

Returns The added *SurveySection*.

indico.modules.events.surveys.operations.add_survey_text (section, data)
 Add a text item to a survey.

Parameters

- **section** The *SurveySection* to which the question will be added.
- data The *TextForm.data* to populate the question with.

Returns The added *SurveyText*.

Utilities

Generate spreadsheet data from a given survey.

Parameters

- **survey** *Survey* for which the user wants to export submissions
- **submission_ids** The list of submissions to include in the file

indico.modules.events.surveys.util.get_events_with_submitted_surveys (user, dt=None)

Get the IDs of events where the user submitted a survey.

Parameters

- user A User
- dt Only include events taking place on/after that date

Returns A set of event ids

indico.modules.events.surveys.util.is_submission_in_progress(survey) Check whether the current user has a survey submission in progress.

indico.modules.events.surveys.util.make_survey_form(survey)

Create a WTForm from survey questions.

Each question will use a field named question_ID.

Parameters survey – The *Survey* for which to create the form.

Returns An IndicoForm subclass.

```
indico.modules.events.surveys.util.query_active_surveys(event)
indico.modules.events.surveys.util.save_submitted_survey_to_session(submission)
    Save submission of a survey to session for further checks.
indico.modules.events.surveys.util.was_survey_submitted(survey)
    Check whether the current user has submitted a survey.
```

7.1.18 Timetable

Todo: Docstring (module, models, operations, utilities)

Models

```
class indico.modules.events.timetable.models.breaks.Break(**kwargs)
    Bases: indico.core.db.sqlalchemy.descriptions.DescriptionMixin, indico.
    core.db.sqlalchemy.colors.ColorMixin, indico.core.db.sqlalchemy.locations.
    LocationMixin, sqlalchemy.orm.decl_api.Model
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```
background_color
can_access(user)
default_colors = ColorTuple(text='202020', background='90c0f0')
default_render_mode = 2
duration
end_dt
event
id
inherit_location
location_backref_name = 'breaks'
location_parent
```

The parent object to consult if the location is inherited.

locator

Define a smart locator property.

This behaves pretty much like a normal read-only property and the decorated function should return a dict containing the necessary data to build a URL for the object.

This decorator should usually be applied to a method named locator as this name is required for *get_locator* to find it automatically when just passing the object.

If you need more than one locator, you can define it like this:

```
@locator_property
def locator(self):
    return {...}

@locator.other
def locator(self):
    return {...}
```

The other locator can then be accessed by passing obj.locator.other to the code expecting an object with a locator.

```
own_address
own_room
own_room_id
own_room_name
own_venue
own_venue_id
own_venue_id
own_venue_name
possible_render_modes = {<RenderMode.markdown: 2>}
render_mode = 2
start_dt
text_color
title
class indico.modules.events.timetable.models.entries.TimetableEntry(**kwargs)
Bases: sqlalchemy.orm.decl_api.Model
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

extend_end_dt (end_dt)

```
extend_parent (by_start=True, by_end=True)
```

Extend start/end of parent objects if needed.

No extension if performed for entries crossing a day boundary in the event timezone.

Parameters

- **by_start** Extend parent by start datetime.
- **by_end** Extend parent by end datetime.

```
extend_start_dt (start_dt)
id
is_parallel (in_session=False)
locator
```

Define a smart locator property.

This behaves pretty much like a normal read-only property and the decorated function should return a dict containing the necessary data to build a URL for the object.

This decorator should usually be applied to a method named locator as this name is required for *get_locator* to find it automatically when just passing the object.

If you need more than one locator, you can define it like this:

```
@locator_property
def locator(self):
    return {...}

@locator.other
def locator(self):
    return {...}
```

The other locator can then be accessed by passing obj.locator.other to the code expecting an object with a locator.

```
move (start dt)
```

Move the entry to start at a different time.

This method automatically moves children of the entry to preserve their start time relative to the parent's start time.

```
move_next_to (sibling, position='before')
object
parent_id
session_block
session_block_id
session_siblings
siblings
siblings
siblings_query
start_dt
type
```

```
class indico.modules.events.timetable.models.entries.TimetableEntryType
    Bases: indico.util.enum.RichIntEnum
    An enumeration.
    BREAK = 3
    CONTRIBUTION = 2
    SESSION_BLOCK = 1
```

Operations

```
indico.modules.events.timetable.operations.can_swap_entry (entry,
                                                                            direction,
                                                                 in_session=False)
indico.modules.events.timetable.operations.create_break_entry(event, data, ses-
                                                                     sion block=None)
indico.modules.events.timetable.operations.create_session_block_entry(session_,
indico.modules.events.timetable.operations.create_timetable_entry(event,
                                                                          data, par-
                                                                          ent=None,
                                                                          tend_parent=False)
indico.modules.events.timetable.operations.delete_timetable_entry(entry,
                                                                          log=True)
indico.modules.events.timetable.operations.fit_session_block_entry(entry,
                                                                           log=True)
indico.modules.events.timetable.operations.get_sibling_entry (entry,
                                                                            direction,
                                                                    in_session=False)
indico.modules.events.timetable.operations.move_timetable_entry(entry,
                                                                                par-
                                                                        ent=None,
                                                                        day=None
    Move the entry to another session or top-level timetable.
```

Parameters

- **entry** *TimetableEntry* to be moved
- parent If specified then the entry will be set as a child of parent
- day If specified then the entry will be moved to the top-level timetable on this day

data)

Utilities

indico.modules.events.timetable.util.find_latest_entry_end_dt (obj, day=None)

Get the latest end datetime for timetable entries within the object.

Parameters

- obj The Event or SessionBlock that will be used to look for timetable entries.
- day The local event date to look for timetable entries. Applicable only to Event.

Returns The end datetime of the timetable entry finishing the latest. None if no entry was found.

Find the next most convenient start date fitting a duration within an object.

Parameters

- **duration** Duration to fit into the event/session-block.
- obj The Event or SessionBlock the duration needs to fit into.
- day The local event date where to fit the duration in case the object is an event.
- **force** Gives earliest datetime if the duration doesn't fit.

Returns The end datetime of the latest scheduled entry in the object if the duration fits then. It it doesn't, the latest datetime that fits it. None if the duration cannot fit in the object, earliest datetime if force is True.

```
\begin{tabular}{ll} indico.modules.events.timetable.util.get\_category\_timetable(categ\_ids, start\_dt, end\_dt, de-tail\_level='event', tz=<UTC>, from\_categ=None, grouped=True, in-cludible=<function & <lambda>>) \\ \end\_dt, de-tail\_level='event', tz=<UTC>, from\_categ=None, grouped=True, in-cludible=<function & <lambda>>) \\ \end\_dt, de-tail\_level='event', tz=<UTC>, from\_categ=None, grouped=True, in-cludible=<function & <lambda>>) \\ \end\_dt, de-tail\_level='event', tz=<UTC>, from\_categ=None, grouped=True, in-cludible=<function & <lambda>>) \\ \end\_dt, de-tail\_level='event', tz=<UTC>, from\_categ=None, grouped=True, in-cludible=<function & <lambda>>) \\ \end\_dt, de-tail\_level='event', tz=<UTC>, from\_categ=None, grouped=True, in-cludible=<function & <lambda>>) \\ \end\_dt, de-tail\_level='event', tz=<UTC>, from\_categ=None, grouped=True, in-cludible=<function & <lambda>>) \\ \end\_dt, de-tail\_level='event', tz=<UTC>, from\_categ=None, grouped=True, in-cludible=<function & <lambda>>) \\ \end\_dt, de-tail\_level='event', tz=<UTC>, function & <lambda>> \\ \end\_dt, de-tail\_
```

Retrieve time blocks that fall within a specific time interval for a given set of categories.

Parameters

- categ ids iterable containing list of category IDs
- start_dt start of search interval (datetime, expected to be in display timezone)
- end_dt end of search interval (datetime in expected to be in display timezone)
- detail_level the level of detail of information (event|session|contribution)
- tz the timezone information should be displayed in
- from_categ Category that will be taken into account to calculate visibility
- grouped Whether to group results by start date

• **includible** – a callable, to allow further arbitrary custom filtering (maybe from 3rd party plugins) on whether to include (returns True) or not (returns False) each detail item. Default always returns True.

Returns a dictionary containing timetable information in a structured way. See source code for examples.

```
indico.modules.events.timetable.util.qet nested entries(event)
indico.modules.events.timetable.util.qet session block entries(event, day)
    Return a list of event top-level session blocks for the given day.
indico.modules.events.timetable.util.get_time_changes_notifications(changes,
                                                                              tzinfo,
                                                                              en-
                                                                              try=None)
indico.modules.events.timetable.util.get_timetable_offline_pdf_generator(event)
indico.modules.events.timetable.util.get_top_level_entries(event)
indico.modules.events.timetable.util.render_entry_info_balloon(entry,
                                                                                   ed-
                                                                        itable=False,
                                                                        sess=None.
                                                                        is session timetable=False)
indico.modules.events.timetable.util.render session timetable (session,
                                                                       timetable layout=None,
                                                                       manage-
                                                                       ment=False)
indico.modules.events.timetable.util.shift_following_entries(entry, shift, ses-
                                                                      sion\_=None)
    Reschedule entries starting after the given entry by the given shift.
class indico.modules.events.timetable.reschedule.RescheduleMode
    Bases: str, indico.util.enum.RichEnum
    An enumeration.
    duration = 'duration'
    none = 'none'
    time = 'time'
class indico.modules.events.timetable.reschedule.Rescheduler(event, mode, day,
                                                                      session=None, ses-
                                                                      sion block=None.
                                                                      fit_blocks=False,
                                                                      gap = datetime.timedelta(0)
    Bases: object
```

Compact the schedule of an event day by either adjusting start times or durations of timetable entries.

Parameters

- **event** The event of which the timetable entries should be rescheduled.
- mode A *RescheduleMode* value specifying whether the duration or start time should be adjusted.
- day A *date* specifying the day to reschedule (the day of the timetable entries are determined using the event's timezone)

- **session** If specified, only blocks of that session will be rescheduled, ignoring any other timetable entries. Cannot be combined with *session block*.
- session_block` If specified, only entries inside that block will be rescheduled. Cannot be combined with session.
- **fit_blocks** Whether session blocks should be resized to exactly fit their contents before the actual rescheduling operation.
- gap A timedelta specifying the cap between rescheduled timetable entries.

run()

Perform the rescheduling.

7.1.19 Track

Todo: Docstring (module, models, operations)

Models

```
class indico.modules.events.tracks.models.tracks.Track(**kwargs)
    Bases: indico.core.db.sqlalchemy.descriptions.DescriptionMixin, indico.core.
    db.sqlalchemy.protection.ProtectionManagersMixin, sqlalchemy.orm.decl_api.
    Model
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwarqs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```
access_key = None
acl_entries
can_convene(user)
can_delete(user)
can_review_abstracts(user)
code
default_render_mode = 2
default_session
default_session_id
disable_protection_mode = True
event
event_id
full_title
full_title_with_group
id
```

```
is_track_group = False
```

locator

Define a smart locator property.

This behaves pretty much like a normal read-only property and the decorated function should return a dict containing the necessary data to build a URL for the object.

This decorator should usually be applied to a method named locator as this name is required for get locator to find it automatically when just passing the object.

If you need more than one locator, you can define it like this:

```
@locator_property
def locator(self):
   return {...}
@locator.other
def locator(self):
   return {...}
```

The other locator can then be accessed by passing obj.locator.other to the code expecting an object with a locator.

```
own no access contact = None
    position
    possible_render_modes = {<RenderMode.markdown: 2>}
    protection_mode = None
    render mode = 2
    short_title
    short_title_with_group
    title
    title_with_group
    track_group
    track_group_id
indico.modules.events.tracks.models.tracks.get_next_position(context)
class indico.modules.events.tracks.models.principals.TrackPrincipal(**kwargs)
    Bases:
                 indico.core.db.sqlalchemy.principals.PrincipalPermissionsMixin,
    sqlalchemy.orm.decl_api.Model
    A simple constructor that allows initialization from kwargs.
```

Sets attributes on the constructed instance using the names and values in kwarqs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```
allow_category_roles = True
allow event roles = True
category_role
category_role_id
```

```
email = None
event_role
event_role_id
full_access
id
ip_network_group = None
ip_network_group_id = None
local_group
local_group_id
multipass_group_name
multipass_group_provider
permissions
principal_backref_name = 'in_track_acls'
principal_for = 'Track'
read access
registration form = None
registration_form_id = None
track_id
type
unique_columns = ('track_id',)
user
user_id
```

Operations

```
indico.modules.events.tracks.operations.create_track(event, data)
indico.modules.events.tracks.operations.create_track_group(event, data)
indico.modules.events.tracks.operations.delete_track(track)
indico.modules.events.tracks.operations.delete_track_group(track_group)
indico.modules.events.tracks.operations.update_program(event, data)
indico.modules.events.tracks.operations.update_track(track, data)
indico.modules.events.tracks.operations.update_track_group(track_group, data)
```

7.1.20 Static site

Todo: Doctrings (module, utilities)

Models

```
indico.core.storage.models.StoredFileMixin, sqlalchemy.orm.decl_api.
Model
Static site for an Indico event.
A simple constructor that allows initialization from kwargs.
Sets attributes on the constructed instance using the names and values in kwargs.
Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any
mapped columns or relationships.
add_file_date_column = False
content_type
     The MIME type of the file.
created dt = None
creator
     The user who created the static site
creator_id
    ID of the user who created the static site
event
    The Event this static site is associated with
event_id
    ID of the event
extension
     The extension of the file.
file_required = False
filename
     The name of the file.
id
    Entry ID
locator
md5
     An MD5 hash of the file.
     Automatically assigned when save() is called.
requested_dt
     The date and time the static site was requested
size
     The size of the file (in bytes).
     Automatically assigned when save() is called.
state
     The state of the static site (a StaticSiteState member)
storage_backend
storage_file_id
```

class indico.modules.events.static.models.static.StaticSite(**kwargs)

```
Bases: indico.util.enum.RichIntEnum
    An enumeration.
    expired = 4
    failed = 3
    pending = 0
    running = 1
    success = 2
Utilities
class indico.modules.events.static.util.RewrittenManifest(manifest)
    Bases: pywebpack.manifests.Manifest
    A manifest that rewrites its asset paths.
indico.modules.events.static.util.collect_static_files()
    Keep track of URLs used by manifest and url_for.
indico.modules.events.static.util.override_request_endpoint(endpoint)
indico.modules.events.static.util.rewrite_css_urls(event, css)
    Rewrite CSS in order to handle url(...) properly.
indico.modules.events.static.util.rewrite_static_url(path)
    Remove __vxxx prefix from static URLs.
indico.modules.events.static.util.url_to_static_filename(endpoint, url)
    Handle special endpoint/URLs so that they link to offline content.
```

class indico.modules.events.static.models.static.StaticSiteState

7.1.21 Category

Todo: Docstrings (module, model, operations, utilities)

Models

```
class indico.modules.categories.models.categories.Category(**kwargs)
   Bases: indico.core.db.sqlalchemy.searchable.SearchableTitleMixin, indico.core.db.sqlalchemy.descriptions.DescriptionMixin, indico.core.db.sqlalchemy.protection.ProtectionManagersMixin, indico.core.db.sqlalchemy.attachments.AttachedItemsMixin, sqlalchemy.orm.decl_api.Model
   An Indico category.
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwarqs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```
ATTACHMENT_FOLDER_ID_COLUMN = 'category_id'
```

```
access_key = None
acl_entries
allow_no_access_contact = True
allow_relationship_preloading = True
can create events (user)
    Check whether the user can create events in the category.
chain_query
    Get a query object for the category chain.
    The query retrieves the root category first and then all the intermediate categories up to (and including)
    this category.
children
deep_children_query
    Get a query object for all subcategories.
    This includes subcategories at any level of nesting.
default_badge_template
default_badge_template_id
default_event_themes
default render mode = 2
default_ticket_template
default_ticket_template_id
disallowed_protection_modes = frozenset()
display_tzinfo
    The tzinfo of the category or the one specified by the user.
effective_icon_url
    Get the HTTP URL of the icon (possibly inherited).
event creation notification emails
event_creation_restricted
event_message
event_message_mode
get_hidden_events (user=None)
    Get all hidden events within the given category and user.
classmethod get_icon_data_cte()
classmethod get_protection_cte()
get_protection_parent_cte()
classmethod get_root()
    Get the root category.
classmethod get_tree_cte(col='id')
    Create a CTE for the category tree.
    The CTE contains the following columns:
```

- id the category id
- path an array containing the path from the root to the category itself
- is_deleted whether the category is deleted

Parameters col – The name of the column to use in the path or a callable receiving the category alias that must return the expression used for the 'path' retrieved by the CTE.

```
static get_visible_categories_cte(category_id)
```

Get a sqlalchemy select for the visible categories within the given category, including the category itself.

```
has_effective_icon
has_icon
has_logo
icon
icon_metadata
icon_url
    Get the HTTP URL of the icon.
id
inheriting_have_acl = True
is_deleted
is_descendant_of(categ)
is_empty
is_flat_view_enabled
is_root
locator
```

Define a smart locator property.

This behaves pretty much like a normal read-only property and the decorated function should return a dict containing the necessary data to build a URL for the object.

This decorator should usually be applied to a method named locator as this name is required for *get_locator* to find it automatically when just passing the object.

If you need more than one locator, you can define it like this:

```
@locator_property
def locator(self):
    return {...}

@locator.other
def locator(self):
    return {...}
```

The other locator can then be accessed by passing obj.locator.other to the code expecting an object with a locator.

logo

logo_metadata

```
logo url
          Get the HTTP URL of the logo.
     move (target)
          Move the category into another category.
     notify managers
     nth_parent (n_categs, fail_on_overflow=True)
          Return the nth parent of the category.
              Parameters
                  • n_categs – the number of categories to go up
                  • fail_on_overflow – whether to fail if we try to go above the root category
              Returns Category object or None (only if fail_on_overflow is not set)
     own_no_access_contact
     own_visibility_horizon
          Get the highest category this one would like to be visible from (configured visibility).
     parent chain query
          Get a query object for the category's parent chain.
          The query retrieves the root category first and then all the intermediate categories up to (excluding) this
          category.
     parent_id
     position
     possible_render_modes = {<RenderMode.markdown: 2>}
     protection_mode
     protection_parent
          The parent object to consult for ProtectionMode.inheriting.
     real_visibility_horizon
          Get the highest category this one is actually visible from (as limited by categories above).
     render mode = 2
     suggestions_disabled
     timezone
     title
     tzinfo
     url
     visibility
     visibility_horizon_query
          Get a query object that returns the highest category this one is visible from.
     visible_categories_query
          Get a query object for the visible categories within this category, including the category itself.
class indico.modules.categories.models.categories.EventMessageMode
     Bases: indico.util.enum.RichIntEnum
     An enumeration.
```

```
danger = 3
    disabled = 0
    info = 1
    warning = 2
class indico.modules.categories.models.principals.CategoryPrincipal(**kwargs)
                  indico.core.db.sqlalchemy.principals.PrincipalPermissionsMixin,
    sqlalchemy.orm.decl_api.Model
    A simple constructor that allows initialization from kwargs.
    Sets attributes on the constructed instance using the names and values in kwargs.
    Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any
    mapped columns or relationships.
    allow_category_roles = True
    allow_networks = True
    category_id
         The ID of the associated event
    category_role
    category_role_id
    email = None
    event role = None
    event_role_id = None
    full_access
    id
         The ID of the acl entry
    ip_network_group
    ip_network_group_id
    local_group
    local_group_id
    multipass_group_name
    multipass_group_provider
    permissions
    principal_backref_name = 'in_category_acls'
    principal_for = 'Category'
    read_access
    registration_form = None
    registration_form_id = None
    type
```

7.1. API reference 267

unique_columns = ('category_id',)

user

```
user id
```

```
class indico.modules.categories.models.settings.CategorySetting(**kwargs)
    Bases: indico.core.settings.models.base.JSONSettingsBase, sqlalchemy.orm.
    decl_api.Model
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwarqs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```
category
category_id
id
module
name
value
```

Operations

```
indico.modules.categories.operations.create_category (parent, data)
indico.modules.categories.operations.delete_category (category)
indico.modules.categories.operations.move_category (category, target_category)
indico.modules.categories.operations.update_category (category, data, skip=())
```

Utilities

```
indico.modules.categories.util.get_attachment_count (category_id=None) Get the number of attachments in events in a category.
```

Parameters category_id - The category ID to get statistics for. Attachments from subcategories are also included.

Returns The number of attachments

```
indico.modules.categories.util.get_category_id=None)
Get category statistics.
```

This function is mainly a helper so we can get and cache all values at once and keep a last-update timestamp.

Parameters category_id - The category ID to get statistics for. Subcategories are also included.

```
indico.modules.categories.util.get_contribs_by_year(category_id=None)

Get the number of contributions for each year.
```

Parameters category_id – The category ID to get statistics for. Contributions from subcategories are also included.

Returns A dictionary mapping years to contribution counts.

```
indico.modules.categories.util.get_events_by_year (category_id=None) Get the number of events for each year.
```

Parameters category_id - The category ID to get statistics for. Events from subcategories are also included.

Returns A dictionary mapping years to event counts.

```
indico.modules.categories.util.get_image_data(image_type, category)
indico.modules.categories.util.get_min_year(category_id=None)
    Get the min year.
```

Parameters category_id - The category ID to get statistics for.

Returns The year.

```
indico.modules.categories.util.get_upcoming_events()
    Get the global list of upcoming events.
```

```
indico.modules.categories.util.get_visibility_options(category_or_event, low_invisible=True)
```

Return the visibility options available for the category or event.

```
indico.modules.categories.util.serialize_category_role(role, legacy=True) Serialize role to JSON-like object.
```

Export the events in a category to iCal.

Parameters

- category_ids Category IDs to export
- user The user who needs to be able to access the events
- **event_filter** A SQLalchemy criterion to restrict which events will be returned. Usually something involving the start/end date of the event.
- event filter fn A callable that determines which events to include (after querying)
- update_query A callable that can update the query used to retrieve the events. Must return the updated query object.

event_filter)

Export the events in a category to Atom.

Parameters

- category The category to export
- url The URL of the feed
- user The user who needs to be able to access the events
- **event_filter** A SQLalchemy criterion to restrict which events will be returned. Usually something involving the start/end date of the event.

```
indico. \verb|modules.categories.serialize_category_chain| (category, in-clude_children=False, in-clude_parents=False)
```

Settings

Bases: indico.core.settings.proxy.SettingsProxyBase

Proxy class to access category-specific settings for a certain module.

delete (category, *names)

Delete settings.

Parameters

- category Category (or its ID)
- names One or more names of settings to delete

delete_all (category)

Delete all settings.

Parameters category – Category (or its ID)

 $\verb"get" (category, name, default = < object \ object >)$

Retrieve the value of a single setting.

Parameters

- category Category (or its ID)
- **name** Setting name
- **default** Default value in case the setting does not exist

Returns The settings's value or the default value

```
get_all (category, no_defaults=False)
```

Retrieve all settings.

Parameters

- category Category (or its ID)
- no_defaults Only return existing settings and ignore defaults.

Returns Dict containing the settings

query

Return a query object filtering by the proxy's module.

set (category, name, value)

Set a single setting.

Parameters

- category Category (or its ID)
- name Setting name

• value – Setting value; must be JSON-serializable

```
set_multi(category, items)
```

Set multiple settings at once.

Parameters

- category Category (or its ID)
- items Dict containing the new settings

7.1.22 User

Todo: Docstrings (module, models, utilities)

Models

```
class indico.modules.users.models.users.NameFormat
    Bases: indico.util.enum.RichIntEnum
    An enumeration.
    f_last = 3
    f_last_upper = 7
    first_last = 0
    first_last_upper = 4
    last_f = 2
    last_f_upper = 6
    last_first = 1
    last_first_upper = 5

class indico.modules.users.models.users.PersonMixin
    Bases: object
```

Add convenience properties and methods to person classes.

Assumes the following attributes exist: * first_name * last_name * title

display_full_name

Return the full name using the user's preferred name format.

full name

Return the person's name in 'Firstname Lastname' notation.

```
get_full_name (last_name_first=True, last_name_upper=True, abbrev_first_name=True, show_title=False, _show_empty_names=False)
Return the person's name in the specified notation.
```

Note: Do not use positional arguments when calling this method. Always use keyword arguments!

Parameters

• last_name_first - if "lastname, firstname" instead of "firstname lastname" should be used

- last_name_upper if the last name should be all-uppercase
- abbrev_first_name if the first name should be abbreviated to use only the first character
- show_title if the title of the person should be included

name

Return the person's name in 'Firstname Lastname' notation.

title

The title of the user

```
{\bf class} \ {\tt indico.modules.users.models.users.ProfilePictureSource}
```

Bases: int, enum. Enum

An enumeration.

custom = 3

gravatar = 2

identicon = 1

standard = 0

class indico.modules.users.models.users.User(**kwargs)

 $Bases: indico.modules.users.models.users.PersonMixin, \\ sqlalchemy.orm.\\ decl_api.Model$

Indico users.

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

address

the address of the user

affiliation

the affiliation of the user

all emails

all emails of the user. read-only; use it only for searching by email! also, do not use it between modifying *email* or *secondary_emails* and a session expire/commit!

api key

the active API key of the user

as_principal

The serializable principal identifier of this user.

```
avatar_bg_color
```

avatar_url

can_be_modified(user)

If this user can be modified by the given user.

can_get_all_multipass_groups

Check whether it is possible to get all multipass groups the user is in.

email

the primary email address of the user

event_log_entries

event_notes_revisions

external identities

The external identities of the user.

favorite_categories

the users's favorite categories

favorite_users

the users's favorite users

first name

the first name of the user

get_full_name (*args, **kwargs)

Return the person's name in the specified notation.

Note: Do not use positional arguments when calling this method. Always use keyword arguments!

Parameters

- last_name_first if "lastname, firstname" instead of "firstname lastname" should be used
- last_name_upper if the last name should be all-uppercase
- abbrev_first_name if the first name should be abbreviated to use only the first character
- **show_title** if the title of the person should be included

get_identity (provider)

Return the first user identity which matches the given provider.

Parameters provider - The id of the provider in question

Returns The requested identity, or *None* if none is found

get_merged_from_users_recursive()

Get the users merged into this users recursively.

static get_system_user()

has_picture

id

the unique id of the user

identifier

identities

the identities used by this user

is admin

if the user is an administrator with unrestricted access to everything

is_blocked

if the user has been blocked

is deleted

if the user is deleted (e.g. due to a merge)

is_pending

if the user is pending (e.g. never logged in, only added to some list)

is_system

if the user is the default system user

iter_all_multipass_groups()

Iterate over all multipass groups the user is in.

iter_identifiers (check_providers=False, providers=None)

Yields (provider, identifier) tuples for the user.

Parameters

- **check_providers** If True, providers are searched for additional identifiers once all existing identifiers have been yielded.
- **providers** May be a set containing provider names to get only identifiers from the specified providers.

last_login_dt

The datetime when the user last logged in.

last name

the last/family name of the user

local identities

The local identities of the user.

local_identity

The main (most recently used) local identity.

locator

Define a smart locator property.

This behaves pretty much like a normal read-only property and the decorated function should return a dict containing the necessary data to build a URL for the object.

This decorator should usually be applied to a method named locator as this name is required for *get_locator* to find it automatically when just passing the object.

If you need more than one locator, you can define it like this:

```
@locator_property
def locator(self):
    return {...}

@locator.other
def locator(self):
    return {...}
```

The other locator can then be accessed by passing obj.locator.other to the code expecting an object with a locator.

make_email_primary(email)

Promote a secondary email address to the primary email address.

Parameters email – an email address that is currently a secondary email

merged into id

the id of the user this user has been merged into

merged_into_user

the user this user has been merged into

query_personal_tokens(*, include_revoked=False)

Query the personal tokens of the user.

Parameters include_revoked – whether to query revoked tokens as well

```
reset_signing_secret()
```

secondary_emails

any additional emails the user might have

secondary_local_identities

The local identities of the user except the main one.

settings

Return the user settings proxy for this user.

signing_secret

a unique secret used to generate signed URLs

suggested_categories

the user's category suggestions

synced_fields

The fields of the user whose values are currently synced.

This set is always a subset of the synced fields define in synced fields of the idp in 'indico.conf'.

synced_values

The values from the synced identity for the user.

Those values are not the actual user's values and might differ if they are not set as synchronized.

synchronize_data (refresh=False, silent=False)

Synchronize the fields of the user from the sync identity.

This will take only into account <code>synced_fields</code>.

Parameters

- **refresh** bool Whether to refresh the synced identity with the sync provider before instead of using the stored data. (Only if the sync provider supports refresh.)
- silent bool Whether to just synchronize but not flash any messages

class indico.modules.users.models.users.UserTitle
 Bases: indico.util.enum.RichIntEnum

```
An enumeration.
     dr = 4
     mr = 1
     mrs = 3
     ms = 2
     mx = 6
     none = 0
     prof = 5
indico.modules.users.models.users.format_display_full_name(user, obj)
indico.modules.users.models.users.syncable_fields = {'address': l'address', 'affiliation'
     Fields which can be synced as keys and a mapping to a more human readable version, used for flashing messages
class indico.modules.users.models.affiliations.UserAffiliation(**kwargs)
     Bases: sqlalchemy.orm.decl_api.Model
     A simple constructor that allows initialization from kwargs.
     Sets attributes on the constructed instance using the names and values in kwargs.
     Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any
     mapped columns or relationships.
     id
          the unique id of the affiliations
     name
          the affiliation
     user id
          the id of the associated user
class indico.modules.users.models.emails.UserEmail(**kwargs)
     Bases: sqlalchemy.orm.decl_api.Model
     A simple constructor that allows initialization from kwargs.
     Sets attributes on the constructed instance using the names and values in kwargs.
     Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any
     mapped columns or relationships.
     email
          the email address
     id
          the unique id of the email address
     is_primary
          if the email is the user's primary email
     is_user_deleted
          if the user is marked as deleted (e.g. due to a merge). DO NOT use this flag when actually deleting an
     user_id
```

the id of the associated user

```
class indico.modules.users.models.suggestions.SuggestedCategory(**kwargs)
     Bases: sqlalchemy.orm.decl_api.Model
     A simple constructor that allows initialization from kwargs.
     Sets attributes on the constructed instance using the names and values in kwargs.
     Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any
     mapped columns or relationships.
     category
     category_id
     is_ignored
     classmethod merge_users (target, source)
          Merge the suggestions for two users.
              Parameters
                  • target – The target user of the merge.
                  • source – The user that is being merged into target.
     score
     user id
class indico.modules.users.models.settings.UserSetting(**kwargs)
               indico.core.settings.models.base.JSONSettingsBase, sqlalchemy.orm.
     decl api.Model
     User-specific settings.
     A simple constructor that allows initialization from kwargs.
     Sets attributes on the constructed instance using the names and values in kwargs.
     Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any
     mapped columns or relationships.
     id
     module
     name
     user
     user_id
     value
class indico.modules.users.models.settings.UserSettingsProxy (module,
                                                                                             de-
                                                                              faults=None,
                                                                               strict=True,
                                                                               acls=None,
                                                                                            con-
                                                                               verters=None)
     Bases: indico.core.settings.proxy.SettingsProxyBase
     Proxy class to access user-specific settings for a certain module.
     delete(user, *names)
          Delete settings.
              Parameters
```

```
• user - { 'user': user} or { 'user_id':
                  • names – One or more names of settings to delete
     delete_all (user)
          Delete all settings.
              Parameters user - { 'user': user} or { 'user id': id}
     get (user, name, default=<object object>)
          Retrieve the value of a single setting.
              Parameters
                  • user - { 'user': user} or { 'user_id':
                  • name – Setting name
                  • default – Default value in case the setting does not exist
              Returns The settings's value or the default value
     get_all (user, no_defaults=False)
          Retrieve all settings.
              Parameters
                  • user - { 'user': user} or { 'user_id':
                  • no defaults – Only return existing settings and ignore defaults.
              Returns Dict containing the settings
     query
          Return a query object filtering by the proxy's module.
     set (user, name, value)
          Set a single setting.
              Parameters
                  • user - { 'user': user} or { 'user_id': id}
                  • name – Setting name
                  • value – Setting value; must be JSON-serializable
     set multi(user, items)
          Set multiple settings at once.
              Parameters
                  • user - { 'user': user} or { 'user_id': id}
                  • items – Dict containing the new settings
indico.modules.users.models.settings.user_or_id(f)
Operations
indico.modules.users.operations.create_user(email,
                                                                            identity=None,
                                                                   data,
                                                                                              set-
                                                         tings=None,
                                                         from_moderation=True)
```

other_emails=None,

Create a new user.

This may also convert a pending user to a proper user in case the email address matches such a user.

Parameters

- **email** The primary email address of the user.
- data The data used to populate the user.
- identity An *Identity* to associate with the user.
- **settings** A dict containing user settings.
- other_emails A set of email addresses that are also used to check for a pending user. They will also be added as secondary emails to the user.
- **from_moderation** Whether the user was created through the moderation process or manually by an admin.

Utilities

```
indico.modules.users.util.build_user_search_query(criteria,
                                                                           exact=False,
                                                                                            in-
                                                                clude_deleted=False,
                                                                                            in-
                                                                clude_pending=False,
                                                                                            in-
                                                                clude_blocked=False,
                                                                                            fa-
                                                                vorites_first=False)
indico.modules.users.util.get_admin_emails()
     Get the email addresses of all Indico admins.
indico.modules.users.util.get_avatar_url_from_name(first_name)
indico.modules.users.util.get_color_for_user_id(user_id: Union[int, str])
     Calculate a unique color for a user based on their id.
          Parameters user_id - the user ID (int), or otherwise a string (external search results)
indico.modules.users.util.get_gravatar_for_user(user,
                                                                    identicon,
                                                                               size=256,
                                                                                         last-
                                                             mod=None)
indico.modules.users.util.get_linked_events(user, dt, limit=None, load_also=())
     Get the linked events and the user's roles in them.
          Parameters
               • user - A User
               • dt – Only include events taking place on/after that date
               • limit – Max number of events
indico.modules.users.util.get_related_categories(user, detailed=True)
     Get the related categories of a user for the dashboard.
```

Parameters

Find a user based on his email address.

• **email** – The email address of the user.

indico.modules.users.util.get_suggested_categories(user)

Get the suggested categories of a user for the dashboard.

• **create_pending** – If True, this function searches for external users and creates a new pending User in case no existing user was found.

Returns A User instance or None if not exactly one user was found.

indico.modules.users.util.get_user_by_email(email, create_pending=False)

Parameters

- **source** source user (will be set as deleted)
- target target user (final)

Search for users.

Parameters

- **exact** Indicates if only exact matches should be returned. This is MUCH faster than a non-exact saerch, especially when searching external users.
- include deleted Indicates if also users marked as deleted should be returned.
- include_pending Indicates if also users who are still pending should be returned.
- include_blocked Indicates if also users marked as blocked should be returned.
- external Indicates if identity providers should be searched for matching users.
- allow_system_user Whether the system user may be returned in the search results.
- **criteria** A dict containing any of the following keys: name, first_name, last_name, email, affiliation, phone, address

Returns A set of matching users. If *external* was set, it may contain both IdentityInfo objects for external users not yet in Indico and *User* objects for existing users.

Parameters user – A *User* object, string (external search results, registrations) or *None* (blank avatar)

```
indico.modules.users.util.serialize_user(user)
Serialize user to JSON-like object.
```

indico.modules.users.util.set_user_avatar(user, avatar, filename, lastmod=None)

```
class indico.modules.users.ext.ExtraUserPreferences(user)
    Bases: object
```

Define additional user preferences.

To use this class, subclass it and override defaults, fields and save to implement your custom logic.

```
extend defaults (defaults)
```

Add values to the FormDefaults.

```
extend_form(form_class)
```

Create a subclass of the form containing the extra field.

```
fields = {}
```

a dict containing all the fields that should be added to the user preferences

```
classmethod is active (user)
```

Return whether the preferences are available for the given user.

load()

Return a dict with the current values for the user.

```
process_form_data(data)
```

Process and save submitted data.

This modifies *data* so the core code doesn't receive any extra data it doesn't expect.

save (data)

Save the updated settings.

7.1.23 Attachment

Todo: Docstrings (module, models, operations)

Models

```
class indico.modules.attachments.models.attachments.Attachment (**kwargs)
```

Bases: indico.core.db.sqlalchemy.searchable.SearchableTitleMixin, indico.core.db.sqlalchemy.protection.ProtectionMixin, indico.core.storage.models.VersionedResourceMixin, sqlalchemy.orm.decl_api.Model

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwarqs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

absolute_download_url

The absolute download url for the attachment.

```
access_key = None
```

acl

The ACL of the folder (used for ProtectionMode.protected)

acl_entries

all_files

```
can_access (user, *args, **kwargs)
```

Check if the user is allowed to access the attachment.

This is the case if the user has access to see the attachment or if the user can manage attachments for the linked object.

description

The description of the attachment

download_url

The download url for the attachment.

file

file id

```
folder
          The folder containing the attachment
     folder id
          The ID of the folder the attachment belongs to
     get_download_url (absolute=False)
          Return the download url for the attachment.
          During static site generation this returns a local URL for the file or the target URL for the link.
             Parameters absolute – If the returned URL should be absolute.
     id
          The ID of the attachment
     is deleted
          If the attachment has been deleted
     link url
         The target URL for a link attachment
     locator
     modified dt
          The date/time when the attachment was created/modified
     own_no_access_contact = None
     protection_mode
     protection_parent
          The parent object to consult for ProtectionMode.inheriting.
     stored_file_class
          alias of AttachmentFile
     stored_file_fkey = 'attachment_id'
     stored_file_table = 'attachments.files'
     title
     title_required = False
     type
          The type of the attachment (file or link)
     user
         The user who created the attachment
     user id
         The ID of the user who created the attachment
class indico.modules.attachments.models.attachments.AttachmentFile(**kwargs)
     Bases:
            indico.core.storage.models.StoredFileMixin, sqlalchemy.orm.decl_api.
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```
attachment id
          The ID of the associated attachment
     content_type
          The MIME type of the file.
     created dt
         The date/time when the file was uploaded.
     extension
          The extension of the file.
     filename
          The name of the file.
     id
          The ID of the file
     is_previewable
     md5
          An MD5 hash of the file.
          Automatically assigned when save() is called.
     size
          The size of the file (in bytes).
          Automatically assigned when save() is called.
     storage_backend
     storage_file_id
     user
          The user who uploaded the file
     user id
         The user who uploaded the file
     version_of = 'attachment'
class indico.modules.attachments.models.attachments.AttachmentType
     Bases: indico.util.enum.RichIntEnum
     An enumeration.
     file = 1
     link = 2
class indico.modules.attachments.models.folders.AttachmentFolder(**kwargs)
     Bases: indico.core.db.sqlalchemy.links.LinkMixin, indico.core.db.sqlalchemy.
     protection.ProtectionMixin, sqlalchemy.orm.decl_api.Model
     A simple constructor that allows initialization from kwargs.
     Sets attributes on the constructed instance using the names and values in kwargs.
     Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any
     mapped columns or relationships.
```

7.1. API reference 283

The ACL of the folder (used for ProtectionMode.protected)

access_key = None

acl

acl_entries allowed_link_types = frozenset({<LinkType.category: 1>, <LinkType.event: 2>, <LinkType.attachments The list of attachments that are not deleted, ordered by name can_access(user, *args, **kwargs) Check if the user is allowed to access the folder. This is the case if the user has access the folder or if the user can manage attachments for the linked object.</pre>

can_view(user)

Check if the user can see the folder.

This does not mean the user can actually access its contents. It just determines if it is visible to him or not.

category

category_id

contribution

contribution id

description

The description of the folder

event

event id

```
events_backref_name = 'all_attachment_folders'
```

classmethod get_for_linked_object (linked_object, preload_event=False)

Get the attachments for the given object.

This only returns attachments that haven't been deleted.

Parameters

- linked_object A category, event, session, contribution or subcontribution.
- **preload_event** If all attachments for the same event should be pre-loaded and cached in the app context. This must not be used when linked_object is a category.

classmethod get_or_create(linked_object, title=None)

Get a folder for the given object or create it.

If no folder title is specified, the default folder will be used. It is the caller's responsibility to add the folder or an object (such as an attachment) associated with it to the SQLAlchemy session using db.session. add(...).

classmethod get_or_create_default (linked_object)

Get the default folder for the given object or creates it.

id

The ID of the folder

is_always_visible

If the folder is always visible (even if you cannot access it)

is_default

If the folder is the default folder (used for "folder-less" files)

is deleted

If the folder has been deleted

is hidden

If the folder is never shown in the frontend (even if you can access it)

```
link_backref_lazy = 'dynamic'
link_backref_name = 'attachment_folders'
link_type
linked_event
linked_event_id
locator
```

Define a smart locator property.

This behaves pretty much like a normal read-only property and the decorated function should return a dict containing the necessary data to build a URL for the object.

This decorator should usually be applied to a method named locator as this name is required for *get_locator* to find it automatically when just passing the object.

If you need more than one locator, you can define it like this:

```
@locator_property
def locator(self):
    return {...}

@locator.other
def locator(self):
    return {...}
```

The other locator can then be accessed by passing obj.locator.other to the code expecting an object with a locator.

```
own_no_access_contact = None
protection_mode
protection_parent
    The parent object to consult for ProtectionMode.inheriting.
session
session_block = None
session_block_id = None
session_id
subcontribution
subcontribution
subcontribution
for the default folder)
unique_links = 'is_default'
class indico.modules.attachments.models.principals.AttachmentFolderPrincipal (**kwargs)
```

A simple constructor that allows initialization from kwargs.

decl_api.Model

Sets attributes on the constructed instance using the names and values in kwargs.

7.1. API reference 285

Bases: indico.core.db.sqlalchemy.principals.PrincipalMixin, sqlalchemy.orm.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```
allow_category_roles = True
    allow_event_roles = True
    allow registration forms = True
    category_role
    category_role_id
    email = None
    event role
    event_role_id
    folder_id
        The ID of the associated folder
    id
        The ID of the acl entry
    ip_network_group = None
    ip_network_group_id = None
    local group
    local_group_id
    multipass_group_name
    multipass_group_provider
    principal_backref_name = 'in_attachment_folder_acls'
    registration_form
    registration_form_id
    type
    unique_columns = ('folder_id',)
    user
    user_id
class indico.modules.attachments.models.principals.AttachmentPrincipal(**kwargs)
    Bases: indico.core.db.sqlalchemy.principals.PrincipalMixin, sqlalchemy.orm.
    decl_api.Model
    A simple constructor that allows initialization from kwargs.
```

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```
allow_category_roles = True
allow_event_roles = True
allow_registration_forms = True
```

```
attachment id
         The ID of the associated attachment
    category_role
    category_role_id
    email = None
    event_role
    event_role_id
    id
         The ID of the acl entry
    ip_network_group = None
    ip_network_group_id = None
    local_group
    local_group_id
    multipass_group_name
    multipass_group_provider
    principal_backref_name = 'in_attachment_acls'
    registration form
    registration_form_id
    type
    unique_columns = ('attachment_id',)
    user
    user_id
Operations
indico.modules.attachments.operations.add_attachment_link(data, linked_object)
    Add a link attachment to linked_object.
Utilities
                                                                                     al-
indico.modules.attachments.util.can_manage_attachments(obj,
                                                                          user,
                                                                 low_admin=True)
    Check if a user can manage attachments for the object.
indico.modules.attachments.util.get_attached_folders(linked_object,
                                                                                     in-
                                                              clude_empty=True,
                                                                                     in-
                                                              clude hidden=True,
                                                              preload_event=False)
    Return a list of all the folders linked to an object.
         Parameters
              • linked_object - The object whose attachments are to be returned
```

• include_empty – Whether to return empty folders as well.

- include hidden Include folders that the user can't see
- **preload_event** in the process, preload all objects tied to the corresponding event and keep them in cache

```
indico.modules.attachments.util. {\it get\_attached\_items} (linked\_object, in-clude\_empty=True, in-clude\_hidden=True, preload\_event=False)
```

Return a structured representation of all the attachments linked to an object.

Parameters

- linked_object The object whose attachments are to be returned
- include_empty Whether to return empty folders as well.
- include_hidden Include folders that the user can't see

```
• preload_event – in the process, preload all objects tied to the corresponding event and
               keep them in cache
indico.modules.attachments.util.get_default_folder_names()
indico.modules.attachments.util.get event(linked object)
class indico.modules.attachments.preview.ImagePreviewer
    Bases: indico.modules.attachments.preview.Previewer
    ALLOWED_CONTENT_TYPE = re.compile('^image/')
    TEMPLATE = 'image_preview.html'
class indico.modules.attachments.preview.MarkdownPreviewer
    Bases: indico.modules.attachments.preview.Previewer
    ALLOWED_CONTENT_TYPE = re.compile('^text/markdown$')
    classmethod generate_content(attachment)
         Generate the HTML output of the file preview.
class indico.modules.attachments.preview.PDFPreviewer
    Bases: indico.modules.attachments.preview.Previewer
    ALLOWED_CONTENT_TYPE = re.compile('^application/pdf$')
    TEMPLATE = 'iframe preview.html'
    classmethod can_preview(attachment_file)
         Check if the content type of the file matches the allowed content type of files that the previewer can be
         used for.
class indico.modules.attachments.preview.Previewer
    Bases: object
    Base class for file previewers.
    To create a new file prewiewer, subclass this class and register it using the get_file_previewers signal.
    ALLOWED CONTENT TYPE = None
    TEMPATE = None
    TEMPLATES_DIR = 'attachments/previewers/'
```

```
classmethod can_preview(attachment_file)
```

Check if the content type of the file matches the allowed content type of files that the previewer can be used for.

classmethod generate_content(attachment)

Generate the HTML output of the file preview.

```
class indico.modules.attachments.preview.TextPreviewer
```

Bases: indico.modules.attachments.preview.Previewer

```
ALLOWED_CONTENT_TYPE = re.compile('^text/plain$')
```

classmethod generate_content(attachment)

Generate the HTML output of the file preview.

indico.modules.attachments.preview.get_file_previewer(attachment_file)

Return a file previewer for the given attachment file based on the file's content type.

indico.modules.attachments.preview.get_file_previewers()

7.1.24 Room booking

Todo: Docstrings (module, models, utilities, services)

Models

```
class indico.modules.rb.models.rooms.Room(**kwargs)
    Bases: indico.core.db.sqlalchemy.protection.ProtectionManagersMixin,
    sqlalchemy.orm.decl_api.Model
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

Parameters

- **user** The *User* to check. May be None if the user is not logged in.
- allow_admin If admin users should always have access

Parameters

- user The *User* to check. May be None if the user is not logged in.
- allow_admin If admin users should always have access
- **check_parent** If the parent object should be checked. In this case the permission is ignored; only full management access is inherited to children.
- **explicit_permission** If the specified permission should be checked explicitly instead of short-circuiting the check for Indico admins or managers. When this option is set to True, the values of *allow_admin* and *check_parent* are ignored. This also applies if *permission* is None in which case this argument being set to True is equivalent to *allow_admin* and *check_parent* being set to False.

Param permission: The management permission that is needed for the check to succeed. If not specified, full management privs are required. May be set to the string 'ANY' to check if the user has any management privileges. If the user has *full_access* privileges, he's assumed to have all possible permissions.

```
can moderate(user, allow admin=True)
can override (user, allow admin=True)
can_prebook (user, allow_admin=True)
capacity
check_advance_days (end_date, user=None, quiet=False)
check_bookable_hours (start_time, end_time, user=None, quiet=False)
comments
default_protection_mode = 0
details url
disallowed_protection_modes = frozenset({<ProtectionMode.inheriting: 1>})
division
end_notification_daily
end notification monthly
end_notification_weekly
end_notifications_enabled
favorite of
static filter available (start dt,
                                      end dt,
                                               repetition,
                                                           include blockings=True,
                            clude_pre_bookings=True, include_pending_blockings=False)
    Return a SQLAlchemy filter criterion ensuring that the room is available during the given time.
static filter_bookable_hours (start_time, end_time)
```

```
static filter_nonbookable_periods (start_dt, end_dt)
classmethod find_with_attribute(attribute)
    Search rooms which have a specific attribute.
floor
full name
generate_name()
get_attribute_by_name (attribute_name)
get_attribute_value (name, default=None)
get_blocked_rooms (*dates, **kwargs)
classmethod get_permissions_for_user(user, allow_admin=True)
    Get the permissions for all rooms for a user.
    In case of multipass-based groups it will try to get a list of all groups the user is in, and if that's not possible
    check the permissions one by one for each room (which may result in many group membership lookups).
    It is recommended to not call this in any place where performance matters and to memoize the result.
static get_with_data(*args, **kwargs)
has_attribute (attribute_name)
has equipment (*names)
has_photo
id
is_auto_confirm
is deleted
is_reservable
static is_user_admin(user)
key_location
latitude
location
location_id
location_name
longitude
map_url
max_advance_days
name
nonbookable_periods
notification_before_days
notification_before_days_monthly
```

notification_before_days_weekly

notification_emails

```
notifications enabled
     number
     own_no_access_contact = None
     owner
         The owner of the room. This is purely informational and does not grant any permissions on the room.
     owner id
     photo
     photo_id
     protection_mode
     protection_parent
          The parent object to consult for ProtectionMode.inheriting.
     reservations
     reservations need confirmation
     set_attribute_value(name, value)
     site
     sprite_position
     surface area
     telephone
     verbose_name
          Verbose name for the room (long)
class indico.modules.rb.models.room_attributes.RoomAttribute(**kwargs)
     Bases: sqlalchemy.orm.decl_api.Model
     A simple constructor that allows initialization from kwargs.
     Sets attributes on the constructed instance using the names and values in kwargs.
     Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any
     mapped columns or relationships.
     id
     is hidden
     name
     title
class indico.modules.rb.models.room_attributes.RoomAttributeAssociation(**kwargs)
     Bases: sqlalchemy.orm.decl_api.Model
     A simple constructor that allows initialization from kwargs.
     Sets attributes on the constructed instance using the names and values in kwargs.
     Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any
     mapped columns or relationships.
     attribute
     attribute id
```

```
room id
```

value

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```
end_time
```

room_id

```
fits_period(st, et)
```

start_time

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

end_dt

```
overlaps (st, et)
```

room_id

start_dt

```
class indico.modules.rb.models.blockings.Blocking(**kwargs)
```

Bases: sqlalchemy.orm.decl_api.Model

Check if a user can override the blocking.

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

allowed

A descriptor that presents a read/write view of an object attribute.

blocked_rooms

```
can_delete(user, allow_admin=True)
can_edit(user, allow_admin=True)
can_override(user, room=None, explicit_only=False, allow_admin=True)
```

The following persons are authorized to override a blocking: - the creator of the blocking - anyone on the blocking's ACL - unless explicit_only is set: rb admins and room managers (if a room is given)

```
created_by_id
```

```
created_by_user
         The user who created this blocking.
     created_dt
     end date
     external details url
     id
     is\_active\_at(d)
     reason
     start date
class indico.modules.rb.models.blocked_rooms.BlockedRoom(**kwargs)
     Bases: sqlalchemy.orm.decl_api.Model
     A simple constructor that allows initialization from kwargs.
     Sets attributes on the constructed instance using the names and values in kwargs.
     Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any
     mapped columns or relationships.
     State
         alias of BlockedRoomState
     approve (notify_blocker=True)
         Approve the room blocking, rejecting all colliding reservations/occurrences.
     blocking_id
     id
     reject (user=None, reason=None)
         Reject the room blocking.
     rejected_by
     rejection_reason
     room_id
     state
     state_name
class indico.modules.rb.models.blocked_rooms.BlockedRoomState
     Bases: indico.util.enum.RichIntEnum
     An enumeration.
     accepted = 1
     pending = 0
     rejected = 2
class indico.modules.rb.models.blocking_principals.BlockingPrincipal(**kwargs)
     Bases: indico.core.db.sqlalchemy.principals.PrincipalMixin, sqlalchemy.orm.
     decl_api.Model
     A simple constructor that allows initialization from kwargs.
```

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```
blocking_id
    category_role = None
    category role id = None
    email = None
    event role = None
    event_role_id = None
    id
    ip_network_group = None
    ip_network_group_id = None
    local_group
    local_group_id
    multipass_group_name
    multipass_group_provider
    principal_backref_name = 'in_blocking_acls'
    registration_form = None
    registration_form_id = None
    type
    unique_columns = ('blocking_id',)
    user
    user_id
class indico.modules.rb.models.equipment.EquipmentType(**kwargs)
    Bases: sqlalchemy.orm.decl_api.Model
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwarqs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```
features
    id
    name
class indico.modules.rb.models.locations.Location(**kwargs)
    Bases: sqlalchemy.orm.decl_api.Model
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

id

```
is deleted
     map_url_template
     name
     room name format
         Translate Postgres' format syntax (e.g. %1$s/%2$s-%3$s) to Python's.
     rooms
class indico.modules.rb.models.map_areas.MapArea(**kwargs)
     Bases: sqlalchemy.orm.decl_api.Model
     A simple constructor that allows initialization from kwargs.
     Sets attributes on the constructed instance using the names and values in kwargs.
     Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any
     mapped columns or relationships.
     bottom_right_latitude
     bottom_right_longitude
     id
     is default
     name
     top_left_latitude
     top_left_longitude
class indico.modules.rb.models.photos.Photo(**kwargs)
     Bases: sqlalchemy.orm.decl_api.Model
     A simple constructor that allows initialization from kwargs.
     Sets attributes on the constructed instance using the names and values in kwargs.
     Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any
     mapped columns or relationships.
     data
     id
exception indico.modules.rb.models.reservations.ConflictingOccurrences
     Bases: Exception
class indico.modules.rb.models.reservations.RepeatFrequency
     Bases: int, indico.util.enum.IndicoEnum
     An enumeration.
     DAY = 1
     MONTH = 3
     NEVER = 0
     WEEK = 2
class indico.modules.rb.models.reservations.RepeatMapping
     Bases: object
     classmethod get_message(repeat_frequency, repeat_interval)
```

```
classmethod get_short_name (repeat_frequency, repeat_interval)
     mapping = {(<RepeatFrequency.NEVER: 0>, 0): ('Single reservation', None, 'none'), (<R</pre>
class indico.modules.rb.models.reservations.Reservation(**kwargs)
     Bases: sqlalchemy.orm.decl_api.Model
     A simple constructor that allows initialization from kwargs.
     Sets attributes on the constructed instance using the names and values in kwargs.
     Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any
     mapped columns or relationships.
     accept (user, reason=None)
     add_edit_log (edit_log)
     booked_for_id
     booked_for_name
     booked for user
          The user this booking was made for. Assigning a user here also updates booked_for_name.
     booking_reason
     can_accept (user, allow_admin=True)
     can cancel (user, allow admin=True)
     can_delete (user, allow_admin=True)
     can_edit (user, allow_admin=True)
     can_reject (user, allow_admin=True)
     cancel (user, reason=None, silent=False)
     contact_email
     classmethod create_from_data (room, data, user, prebook=None, ignore_admin=False)
          Create a new reservation.
              Parameters
                  • room – The Room that's being booked.
                  • data - A dict containing the booking data, usually from a NewBookingConfirmForm
                   instance
                  • user – The User who creates the booking.
                  • prebook – Instead of determining the booking type from the user's permissions, always
                   use the given mode.
                  • ignore_admin – Whether to ignore the user's admin status.
     create_occurrences (skip_conflicts, user=None, allow_admin=True)
     created_by_id
     created_by_user
          The user who created this booking.
     created_dt
     edit_logs
```

```
end_dt
end_notification_sent
event
external_details_url
find_excluded_days()
find_overlapping()
static find_overlapping_with (room, occurrences, skip_reservation_id=None)
get_conflicting_occurrences()
static get_with_data(*args, **kwargs)
id
is_accepted
is_archived
is_booked_for(user)
is_cancelled
is_owned_by (user)
is_pending
is_rejected
is_repeating
link
link id
linked_object
location_name
modify (data, user)
    Modify an existing reservation.
       Parameters
           • data - A dict containing the booking data, usually from a ModifyBookingForm in-
            stance
           • user – The User who modifies the booking.
occurrences
reject (user, reason, silent=False)
rejection_reason
repeat_frequency
repeat_interval
repetition
reset_approval (user)
room id
start_dt
```

```
state
class indico.modules.rb.models.reservations.ReservationLink(**kwargs)
    Bases:
            indico.core.db.sqlalchemy.links.LinkMixin, sqlalchemy.orm.decl_api.
    Model
    A simple constructor that allows initialization from kwargs.
    Sets attributes on the constructed instance using the names and values in kwargs.
    Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any
    mapped columns or relationships.
    allowed_link_types = {<LinkType.event: 2>, <LinkType.contribution: 3>, <LinkType.ses</pre>
    category = None
    category_id = None
    contribution
    contribution_id
    event
    event id
    events_backref_name = 'all_room_reservation_links'
    id
    link_backref_name = 'room_reservation_links'
    link_type
    linked_event
    linked event id
    session = None
    session_block
    session_block_id
    session id = None
    subcontribution = None
    subcontribution_id = None
class indico.modules.rb.models.reservations.ReservationState
    Bases: int, indico.util.enum.IndicoEnum
    An enumeration.
    accepted = 2
    cancelled = 3
    pending = 1
    rejected = 4
class indico.modules.rb.models.reservation_edit_logs.ReservationEditLog(**kwargs)
    Bases: sqlalchemy.orm.decl_api.Model
    A simple constructor that allows initialization from kwargs.
```

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```
id
info
reservation_id
timestamp
user_name
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

NO_RESERVATION_USER_STRATEGY = <sqlalchemy.orm.strategy_options._UnboundLoad object>
A relationship loading strategy that will avoid loading the users linked to a reservation. You want to use this in pretty much all cases where you eager-load the *reservation* relationship.

```
can_cancel (user, allow_admin=True)
can reject(user, allow admin=True)
cancel (user, reason=None, silent=False)
classmethod create_series (start, end, repetition)
classmethod create_series_for_reservation(reservation)
date
end dt
external_cancellation_url
static filter_overlap(occurrences)
classmethod find_overlapping_with (room, occurrences, skip_reservation_id=None)
get_overlap (occurrence, skip_self=False)
is cancelled
is rejected
is valid
is_within_cancel_grace_period
classmethod iter_create_occurrences (start, end, repetition)
static iter_start_time (start, end, repetition)
notification_sent
overlaps (occurrence, skip_self=False)
reject (user, reason, silent=False)
rejection_reason
reservation id
```

```
start dt
    state
class indico.modules.rb.models.reservation_occurrences.ReservationOccurrenceState
    Bases: int, indico.util.enum.IndicoEnum
    An enumeration.
    cancelled = 3
    rejected = 4
    valid = 2
indico.modules.rb.models.util.proxy_to_reservation_if_last_valid_occurrence(f)
    Forward a method call to self.reservation if there is only one occurrence.
Utilities
indico.modules.rb.util.TempReservationConcurrentOccurrence
    alias of indico.modules.rb.util.ReservationOccurrenceTmp
indico.modules.rb.util.TempReservationOccurrence
    alias of indico.modules.rb.util.ReservationOccurrenceTmp
indico.modules.rb.util.build_rooms_spritesheet()
indico.modules.rb.util.generate_spreadsheet_from_occurrences(occurrences)
    Generate spreadsheet data from a given booking occurrence list.
         Parameters occurrences – The booking occurrences to include in the spreadsheet
indico.modules.rb.util.get_booking_params_for_event(event)
    Get a set of RB interface parameters suitable for this event.
    These parameters can then be used to construct a URL that will lead to a pre-filled search that matches the
    start/end times for a given day.
         Parameters event – Event object
indico.modules.rb.util.get_linked_object(type_, id_)
indico.modules.rb.util.get_prebooking_collisions(reservation)
indico.modules.rb.util.get_resized_room_photo(room)
indico.modules.rb.util.group_by_occurrence_date(occurrences, sort_by=None)
indico.modules.rb.util.is_booking_start_within_grace_period(start_dt, user, al-
                                                                     low_admin=False)
indico.modules.rb.util.rb_check_user_access(user)
    Check if the user has access to the room booking system.
indico.modules.rb.util.rb_is_admin(user)
    Check if the user is a room booking admin.
indico.modules.rb.util.remove_room_spritesheet_photo(room)
indico.modules.rb.util.serialize_availability(availability)
indico.modules.rb.util.serialize_blockings(data)
indico.modules.rb.util.serialize booking details (booking)
```

7.1.25 Authentication

Todo: Docstrings (module, models, utilities)

Models

```
class indico.modules.auth.models.identities.Identity(**kwargs)
    Bases: sqlalchemy.orm.decl_api.Model
```

Identities of Indico users.

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwarqs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

data

id

the unique id of the identity

identifier

the unique identifier of the user within its provider

last_login_dt

the timestamp of the latest login

last login ip

the ip address that was used for the latest login

locator

multipass_data

internal data used by the flask-multipass system

password

the password of the user in case of a local identity

password_hash

the hash of the password in case of a local identity

```
provider
```

the provider name of the identity

```
register_login(ip)
```

Update the last login information.

```
safe_last_login_dt
```

last login dt that is safe for sorting (no None values).

user id

the id of the user this identity belongs to

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

comment

email

extra emails

id

identity_data

locator

Define a smart locator property.

This behaves pretty much like a normal read-only property and the decorated function should return a dict containing the necessary data to build a URL for the object.

This decorator should usually be applied to a method named locator as this name is required for *get_locator* to find it automatically when just passing the object.

If you need more than one locator, you can define it like this:

```
@locator_property
def locator(self):
    return {...}

@locator.other
def locator(self):
    return {...}
```

The other locator can then be accessed by passing obj.locator.other to the code expecting an object with a locator.

settings

user_data

Utilities

```
indico.modules.auth.util.impersonate_user(user)
Impersonate another user as an admin.
```

```
indico.modules.auth.util.load_identity_info()
```

Retrieve identity information from the session.

indico.modules.auth.util.redirect_to_login(next_url=None, reason=None)

Redirect to the login page.

Parameters

- next_url URL to be redirected upon successful login. If not specified, it will be set to request.relative_url.
- **reason** Why the user is redirected to a login page.

```
indico.modules.auth.util.register_user(email, extra_emails, user_data, identity_data, set-
tings, from moderation=False)
```

Create a user based on the registration data provided during the user registration process (via *RHRegister* and *RegistrationHandler*).

This method is not meant to be used for generic user creation, the only reason why this is here is that approving a registration request is handled by the *users* module.

```
indico.modules.auth.util.save_identity_info (identity_info, user)
Save information from IdentityInfo in the session.
```

```
\verb|indico.modules.auth.util.undo_impersonate_user()|\\
```

Undo an admin impersonation login and revert to the old user.

```
indico.modules.auth.util.url_for_login (next_url=None)
indico.modules.auth.util.url_for_logout (next_url=None)
```

indico.modules.auth.util.url_for_register(next_url=None, email=None)

Returns the URL to register

Parameters

- next_url The URL to redirect to afterwards.
- **email** A pre-validated email address to use when creating a new local account. Use this argument ONLY when sending the link in an email or if the email address has already been validated using some other way.

7.1.26 OAuth

Todo: Docstrings (module, models, provider)

Models

```
class indico.core.oauth.models.applications.OAuthApplication(**kwargs)
    Bases: authlib.oauth2.rfc6749.models.ClientMixin, sqlalchemy.orm.decl_api.
    Model
```

OAuth applications registered in Indico.

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

allow_pkce_flow

whether the application can use the PKCE flow without a client secret

allowed_scopes

the OAuth scopes the application may request access to

check_client_secret (client_secret)

Check client_secret matching with the client. For instance, in the client table, the column is called client_secret:

```
def check_client_secret(self, client_secret):
    return self.client_secret == client_secret
```

Parameters client_secret - A string of client secret

Returns bool

check_endpoint_auth_method (method, endpoint)

Check if client support the given method for the given endpoint. There is a token_endpoint_auth_method defined via RFC7591. Developers MAY re-implement this method with:

```
def check_endpoint_auth_method(self, method, endpoint):
   if endpoint == 'token':
      # if client table has ``token_endpoint_auth_method``
      return self.token_endpoint_auth_method == method
   return True
```

Method values defined by this specification are:

- "none": The client is a public client as defined in OAuth 2.0, and does not have a client secret.
- "client_secret_post": The client uses the HTTP POST parameters as defined in OAuth 2.0
- "client_secret_basic": The client uses HTTP Basic as defined in OAuth 2.0

check_grant_type (grant_type)

Validate if the client can handle the given grant_type. There are four grant types defined by RFC6749:

- authorization_code
- · implicit
- · client_credentials
- · password

For instance, there is a allowed_grant_types column in your client:

```
def check_grant_type(self, grant_type):
    return grant_type in self.grant_types
```

Parameters grant_type – the requested grant_type string.

Returns bool

check_redirect_uri (redirect_uri)

Called by authlib to validate the redirect_uri.

Uses a logic similar to the one at GitHub, i.e. protocol and host/port must match exactly and if there is a path in the whitelisted URL, the path of the redirect_uri must start with that path.

check_response_type (response_type)

Validate if the client can handle the given response_type. There are two response types defined by RFC6749: code and token. For instance, there is a allowed_response_types column in your client:

```
def check_response_type(self, response_type):
    return response_type in self.response_types
```

Parameters response_type – the requested response_type string.

Returns bool

client id

the OAuth client_id

client_secret

the OAuth client secret

default_redirect_uri

description

human readable description

get_allowed_scope (scope)

A method to return a list of requested scopes which are supported by this client. For instance, there is a scope column:

```
def get_allowed_scope(self, scope):
    if not scope:
        return ''
    allowed = set(scope_to_list(self.scope))
    return list_to_scope([s for s in scope.split() if s in allowed])
```

Parameters scope – the requested scope.

Returns string of scope

get_client_id()

A method to return client_id of the client. For instance, the value in database is saved in a column called client_id:

```
def get_client_id(self):
    return self.client_id
```

Returns string

get_default_redirect_uri()

A method to get client default redirect_uri. For instance, the database table for client has a column called default redirect uri:

```
def get_default_redirect_uri(self):
    return self.default_redirect_uri
```

Returns A URL string

id

the unique id of the application

```
is enabled
          whether the application is enabled or disabled
     is trusted
          whether the application can access user data without asking for permission
     locator
     name
          human readable name
     redirect_uris
          the OAuth absolute URIs that a application may use to redirect to after authorization
     reset_client_secret()
     system_app_type
          the type of system app (if any). system apps cannot be deleted
class indico.core.oauth.models.applications.OAuthApplicationUserLink(**kwargs)
     Bases: sqlalchemy.orm.decl_api.Model
     The authorization link between an OAuth app and a user.
     A simple constructor that allows initialization from kwargs.
     Sets attributes on the constructed instance using the names and values in kwargs.
     Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any
     mapped columns or relationships.
     application
     application_id
     id
     scopes
     update_scopes (scopes: set)
     user
     user id
class indico.core.oauth.models.applications.SystemAppType
     Bases: int, indico.util.enum.IndicoEnum
     An enumeration.
     checkin = 1
     default_data
     enforced_data
```

none = 0

```
class indico.core.oauth.models.tokens.OAuth2AuthorizationCode(code:
                                                                                           str.
                                                                              user id:
                                                                                           int.
                                                                              client id:
                                                                                           str,
                                                                              code_challenge:
                                                                              str,
                                                                              code_challenge_method:
                                                                              str, redirect uri:
                                                                              str = ", scope: str
                                                                              = ", auth_time:
                                                                              datetime.datetime
                                                                               = < factory > )
     Bases: authlib.oauth2.rfc6749.models.AuthorizationCodeMixin
     get_auth_time()
     get_nonce()
     get_redirect_uri()
          A method to get authorization code's redirect_uri. For instance, the database table for authorization
          code has a column called redirect_uri:
          def get_redirect_uri(self):
              return self.redirect_uri
             Returns A URL string
     get_scope()
          A method to get scope of the authorization code. For instance, the column is called scope:
          def get_scope(self):
              return self.scope
             Returns scope string
     is_expired()
     redirect uri = ''
     scope = ''
class indico.core.oauth.models.tokens.OAuthToken(**kwargs)
     Bases: indico.core.oauth.models.tokens.TokenModelBase
     OAuth tokens.
     A simple constructor that allows initialization from kwargs.
     Sets attributes on the constructed instance using the names and values in kwargs.
     Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any
     mapped columns or relationships.
     access_token_hash
     app_user_link
     app_user_link_id
     application
```

check client(client)

A method to check if this token is issued to the given client. For instance, client_id is saved on token table:

```
def check_client(self, client):
    return self.client_id == client.client_id
```

Returns bool

created_dt

get_scope()

A method to get scope of the authorization code. For instance, the column is called scope:

```
def get_scope(self):
    return self.scope
```

Returns scope string

id

is_revoked()

A method to define if this token is revoked. For instance, there is a boolean column revoked in the table:

```
def is_revoked(self):
    return self.revoked
```

Returns boolean

```
last_used_dt
last_used_ip
use_count
```

user

```
class indico.core.oauth.models.tokens.TokenModelBase(**kwargs)
    Bases: authlib.oauth2.rfc6749.models.TokenMixin, sqlalchemy.orm.decl_api.
    Model
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

access_token

Similar to PasswordProperty but tailored towards API tokens.

Since tokens are used much more often than passwords, they use a fast hash algorithm instead of a secure one. This is not a problem for tokens as they are fully random and much longer than the typical password or even passphrase.

```
access_token_hash = Column(None, String(), table=None, nullable=False)
created_dt = Column(None, UTCDateTime(), table=None, nullable=False, default=ColumnDef
get_expires_in()
```

A method to get the expires_in value of the token. e.g. the column is called expires_in:

```
def get_expires_in(self):
    return self.expires_in
```

Returns timestamp int

```
id = Column(None, Integer(), table=None, primary_key=True, nullable=False)
is_expired()
```

A method to define if this token is expired. For instance, there is a column expired_at in the table:

```
def is_expired(self):
    return self.expired_at < now</pre>
```

Returns boolean

```
last_used_dt = Column(None, UTCDateTime(), table=None)
last_used_ip = Column(None, INET(), table=None)
locator
scopes
    The set of scopes this token has access to.
use_count = Column(None, Integer(), table=None, nullable=False, default=ColumnDefault()
```

7.1.27 Group

Todo: Docstrings (module)

Models

```
class indico.modules.groups.models.groups.LocalGroup(**kwargs)
    Bases: sqlalchemy.orm.decl_api.Model
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

id

the unique id of the group

members

the users in the group

name

the name of the group

proxv

Return a GroupProxy wrapping this group.

```
class indico.modules.groups.core.GroupProxy
    Bases: object
```

Provide a generic interface for both local and multipass groups.

Creating an instance of this class actually creates either a LocalGroupProxy or a MultipassGroupProxy, but they expose the same API.

Parameters

- name_or_id The name of a multipass group or ID of a local group
- provider The provider of a multipass group

Create the correct GroupProxy for the group type.

as_principal

The serializable principal identifier of this group.

get_members()

Get the list of users who are members of the group.

group

The underlying group object.

has_member (user)

Check if the user is a member of the group.

This can also be accessed using the in operator.

identifier

```
principal_order = 3
```

classmethod search (name, exact=False, providers=None)

Search for groups.

Parameters

- name The group name to search for.
- exact If only exact matches should be found (much faster)
- **providers** None to search in all providers and local groups. May be a set specifying providers to search in. For local groups, the 'indico' provider name may be used.

Utilities

```
indico.modules.groups.util.serialize_group(group)
Serialize group to JSON-like object.
```

7.1.28 Video conference

Todo: Docstrings (module, models, utilities, plugins, exceptions)

Models

```
class indico.modules.vc.models.vc_rooms.VCRoom(**kwargs)
    Bases: sqlalchemy.orm.decl_api.Model
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

created_by_id

ID of the creator

created_by_user

The user who created the videoconference room

created dt

Creation timestamp of the videoconference room

data

videoconference plugin-specific data

id

Videoconference room ID

locator

modified dt

Modification timestamp of the videoconference room

name

Name of the videoconference room

plugin

status

Status of the videoconference room

type

Type of the videoconference room

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwarqs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

contribution_id

data

videoconference plugin-specific data

delete (user, delete all=False)

Delete a VC room from an event.

If the room is not used anywhere else, the room itself is also deleted.

Parameters

• **user** – the user performing the deletion

```
• delete_all – if True, the room is detached from all events and deleted.
     event
          The associated Event
     event id
          ID of the event
     classmethod find_for_event(event,
                                                  include_hidden=False,
                                                                            include_deleted=False,
                                        only linked to event=False, **kwargs)
          Return a Query that retrieves the videoconference rooms for an event.
              Parameters
                  • event – an indico Event
                  • only_linked_to_event - only retrieve the vc rooms linked to the whole event
                  • kwargs – extra kwargs to pass to filter_by()
     classmethod get_linked_for_event(event)
          Get a dict mapping link objects to event vc rooms.
     id
          Association ID
     link_object
     link_type
          Type of the object the vc_room is linked to
     linked block
          The linked session block (if the VC room is attached to a block)
     linked contrib
          The linked contribution (if the VC room is attached to a contribution)
     linked_event
          The linked event (if the VC room is attached to the event itself)
     linked_event_id
     locator
     classmethod register_link_events()
     session_block_id
     show
          If the vc room should be shown on the event page
     vc room
          The associated :class:VCRoom
     vc room id
          ID of the videoconference room
class indico.modules.vc.models.vc_rooms.VCRoomLinkType
     Bases: int, indico.util.enum.IndicoEnum
     An enumeration.
     block = 3
     contribution = 2
     event = 1
```

```
class indico.modules.vc.models.vc rooms.VCRoomStatus
     Bases: int.indico.util.enum.IndicoEnum
     An enumeration.
     created = 1
     deleted = 2
Utilities
indico.modules.vc.util.find_event_vc_rooms (from_dt=None, to_dt=None, distinct=False)
     Find VC rooms matching certain criteria.
         Parameters
               • from_dt – earliest event/contribution to include
               • to dt – latest event/contribution to include
               • distinct - if True, never return the same (event, vcroom) more than once (even if
                it's linked more than once to that event)
indico.modules.vc.util.get_linked_to_description(obj)
indico.modules.vc.util.get managed vc plugins(user)
     Return the plugins the user can manage.
indico.modules.vc.util.get_vc_plugins()
     Return a dict containing the available videoconference plugins.
indico.modules.vc.util.resolve_title(obj)
Plugins
class indico.modules.vc.plugins.VCPluginMixin
     Bases: object
     acl_settings = {'acl', 'managers'}
     can_manage_vc(user)
         Check if a user has management rights on this VC system.
     can_manage_vc_room (user, room)
         Check if a user can manage a vc room.
     can_manage_vc_rooms (user, event)
         Check if a user can manage vc rooms on an event.
     category = 'Videoconference'
     clone_room(old_event_vc_room, link_object)
         Clone the room, returning a new VCRoomEventAssociation.
             Parameters
                 • old_event_vc_room - the original VCRoomEventAssociation
                 • link_object – the new object the association will be tied to
             Returns the new VCRoomEventAssociation
     create_form(event, existing_vc_room=None, existing_event_vc_room=None)
         Create the videoconference room form.
```

Parameters

- event the event the videoconference room is for
- existing_vc_room a vc_room from which to retrieve data for the form

Returns an instance of an IndicoForm subclass

Return a custom message to show in the confirmation dialog when deleting a VC room.

Parameters

- vc_room the VC room object
- event_vc_room the association of an event and a VC room

Returns a string (may contain HTML) with the message to display

```
get_notification_bcc_list (action, vc_room, event)
get_notification_cc_list (action, vc_room, event)
get_vc_room_attach_form_defaults (event)
get_vc_room_form_defaults (event)
icon_url
init()
logo_url
render_buttons (vc_room, event_vc_room, **kwargs)
    Render a list of plugin specific buttons (eg: Join URL, etc) in the management area.
```

Parameters

- vc_room the VC room object
- event_vc_room the association of an event and a VC room
- **kwargs** arguments passed to the template

```
render_event_buttons (vc_room, event_vc_room, **kwargs)
```

Render a list of plugin specific buttons (eg: Join URL, etc) in the event page.

Parameters

- vc_room the VC room object
- event_vc_room the association of an event and a VC room
- **kwargs** arguments passed to the template

```
render form(**kwargs)
```

Render the videoconference room form.

Parameters kwargs – arguments passed to the template

```
render_info_box (vc_room, event_vc_room, event, **kwargs)
```

Render the information shown in the expandable box of a VC room row.

Parameters

- vc_room the VC room object
- event_vc_room the association of an event and a VC room
- event the event with the current VC room attached to it
- **kwargs** arguments passed to the template

```
render_manage_event_info_box(vc_room, event_vc_room, event, **kwargs)
```

Render the information shown in the expandable box on a VC room in the management area.

Parameters

- vc_room the VC room object
- event_vc_room the association of an event and a VC room
- event the event with the current VC room attached to it
- **kwargs** arguments passed to the template

```
service_name
```

settings_form

alias of indico.modules.vc.forms.VCPluginSettingsFormBase

update_data_association (event, vc_room, event_vc_room, data)

update data vc room(vc room, data, is new=False)

vc room attach form = None

the IndicoForm to use for the videoconference room attach form

vc_room_form = None

the IndicoForm to use for the videoconference room form

Exceptions

```
exception indico.modules.vc.exceptions.VCRoomError(message, field=None)
```

Bases: Exception

exception indico.modules.vc.exceptions.VCRoomNotFoundError(message)

 $Bases: \verb|indico.modules.vc.exceptions.VCRoomError| \\$

7.1.29 Designer

Todo: Docstrings (module, models, utilities)

Models

```
class indico.modules.designer.models.images.DesignerImageFile(**kwargs)
```

Bases: indico.core.storage.models.StoredFileMixin, sqlalchemy.orm.decl_api. Model

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```
content_type
         The MIME type of the file.
     created dt
         The date/time when the file was uploaded.
     download_url
     extension
         The extension of the file.
     filename
         The name of the file.
     id
         The ID of the file
     locator
    md5
         An MD5 hash of the file.
         Automatically assigned when save() is called.
     size
         The size of the file (in bytes).
         Automatically assigned when save() is called.
     storage_backend
     storage_file_id
     template
     template_id
         The designer template the image belongs to
     version_of = None
class indico.modules.designer.models.templates.DesignerTemplate(**kwargs)
     Bases: sqlalchemy.orm.decl_api.Model
    background_image
    background_image_id
    backside_template
     backside_template_id
     category
     category_id
     data
     event
     event_id
     id
     is_clonable
```

```
is_system_template
is_ticket
locator
```

Define a smart locator property.

This behaves pretty much like a normal read-only property and the decorated function should return a dict containing the necessary data to build a URL for the object.

This decorator should usually be applied to a method named locator as this name is required for *get_locator* to find it automatically when just passing the object.

If you need more than one locator, you can define it like this:

```
@locator_property
def locator(self):
    return {...}

@locator.other
def locator(self):
    return {...}
```

The other locator can then be accessed by passing obj.locator.other to the code expecting an object with a locator.

owner

title

type

Utilities

```
indico.modules.designer.util.get_all_templates(obj)
    Get all templates usable by an event/category.
indico.modules.designer.util.get_badge_format(tpl)
indico.modules.designer.util.get_default_badge_on_category(category,
                                                                  only inherited=False)
indico.modules.designer.util.get_default_ticket_on_category(category,
                                                                   only_inherited=False)
indico.modules.designer.util.get_image_placeholder_types()
indico.modules.designer.util.get_inherited_templates(obj)
    Get all templates inherited by a given event/category.
indico.modules.designer.util.get_nested_placeholder_options()
indico.modules.designer.util.get_not_deletable_templates(obj)
    Get all non-deletable templates for an event/category.
indico.modules.designer.util.get_placeholder_options()
class indico.modules.designer.pdf.DesignerPDFBase(template, config)
    Bases: object
    get pdf()
```

```
class indico.modules.designer.pdf.TplData(width, height, items, background_position,
                                                   width cm, height cm)
     Bases: tuple
     Create new instance of TplData(width, height, items, background position, width cm, height cm)
     background_position
         Alias for field number 3
     height
         Alias for field number 1
     height_cm
         Alias for field number 5
     items
         Alias for field number 2
     width
         Alias for field number 0
     width cm
         Alias for field number 4
Placeholders
class indico.modules.designer.placeholders.EventDatesPlaceholder
     Bases: indico.modules.designer.placeholders.DesignerPlaceholder
     description = l'Event Dates'
     group = 'event'
     name = 'event dates'
     classmethod render(event)
         Convert the placeholder to a string.
```

When a placeholder contains HTML that should not be escaped, the returned value should be returned as a markupsafe. Markup instance instead of a plain string.

Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwargs.

Parameters kwargs – arguments specific to the placeholder's context

```
class indico.modules.designer.placeholders.EventDescriptionPlaceholder
    Bases: indico.modules.designer.placeholders.DesignerPlaceholder
    description = l'Event Description'
    group = 'event'
    name = 'event_description'
    classmethod render(event)
        Convert the placeholder to a string.
```

When a placeholder contains HTML that should not be escaped, the returned value should be returned as a markupsafe. Markup instance instead of a plain string.

Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwargs.

Parameters kwargs – arguments specific to the placeholder's context

```
class indico.modules.designer.placeholders.RegistrationFullNamePlaceholder
    Bases: indico.modules.designer.placeholders.FullNamePlaceholderBase
    description = 1'Full Name'
    name = 'full_name'
    name options = {}
    with title = True
class indico.modules.designer.placeholders.EventOrgTextPlaceholder
    Bases: indico.modules.designer.placeholders.DesignerPlaceholder
    description = l'Event Organizers'
    group = 'event'
    name = 'event_organizers'
    classmethod render(event)
        Convert the placeholder to a string.
        When a placeholder contains HTML that should not be escaped, the returned value should be returned as
        a markupsafe. Markup instance instead of a plain string.
        Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwargs.
           Parameters kwargs – arguments specific to the placeholder's context
class indico.modules.designer.placeholders.RegistrationFullNameNoTitlePlaceholder
    Bases: indico.modules.designer.placeholders.FullNamePlaceholderBase
    description = 1'Full Name (no title)'
    name = 'full_name_no_title'
    name_options = {}
    with title = False
class indico.modules.designer.placeholders.RegistrationFullNamePlaceholderB
    Bases: indico.modules.designer.placeholders.FullNamePlaceholderBase
    description = 1'Full Name B'
    name = 'full_name_b'
    name_options = {'last_name_first': False}
    with_title = True
class indico.modules.designer.placeholders.RegistrationFullNameNoTitlePlaceholderB
    Bases: indico.modules.designer.placeholders.FullNamePlaceholderBase
    description = l'Full Name B (no title)'
    name = 'full_name_b_no_title'
    name_options = {'last_name_first': False}
    with title = False
class indico.modules.designer.placeholders.RegistrationFullNamePlaceholderC
    Bases: indico.modules.designer.placeholders.FullNamePlaceholderBase
    description = 1'Full Name C'
    name = 'full_name_c'
```

```
name_options = {'last_name_first': False, 'last_name_upper': True}
    with title = True
class indico.modules.designer.placeholders.RegistrationFullNameNoTitlePlaceholderC
    Bases: indico.modules.designer.placeholders.FullNamePlaceholderBase
    description = 1'Full Name C (no title)'
    name = 'full_name_no_title_c'
    name_options = {'last_name_upper': True}
    with_title = False
class indico.modules.designer.placeholders.RegistrationFullNamePlaceholderD
    Bases: indico.modules.designer.placeholders.FullNamePlaceholderBase
    description = 1'Full Name D (abbrev.)'
    name = 'full_name_d'
    name_options = {'abbrev_first_name': True, 'last_name_first': False, 'last_name_uppe
    with title = True
class indico.modules.designer.placeholders.RegistrationFullNameNoTitlePlaceholderD
    Bases: indico.modules.designer.placeholders.FullNamePlaceholderBase
    description = l'Full Name D (abbrev., no title)'
    name = 'full_name_no_title_d'
    name_options = {'abbrev_first_name': True, 'last_name_upper': True}
    with_title = False
class indico.modules.designer.placeholders.RegistrationTitlePlaceholder
    Bases: indico.modules.designer.placeholders.RegistrationPDPlaceholder
    description = l'Title'
    field = 'title'
    name = 'title'
class indico.modules.designer.placeholders.RegistrationFirstNamePlaceholder
    Bases: indico.modules.designer.placeholders.RegistrationPlaceholder
    description = 1'First Name'
    field = 'first name'
    name = 'first name'
class indico.modules.designer.placeholders.RegistrationLastNamePlaceholder
    Bases: indico.modules.designer.placeholders.RegistrationPlaceholder
    description = 1'Last Name'
    field = 'last_name'
    name = 'last_name'
class indico.modules.designer.placeholders.RegistrationTicketQRPlaceholder
    Bases: indico.modules.designer.placeholders.DesignerPlaceholder
    description = 1'Ticket QR Code'
```

```
group = 'registrant'
     is image = True
     is_ticket = True
     name = 'ticket_qr_code'
     classmethod render(registration)
         Convert the placeholder to a string.
         When a placeholder contains HTML that should not be escaped, the returned value should be returned as
         a markupsafe. Markup instance instead of a plain string.
         Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwarqs.
             Parameters kwargs – arguments specific to the placeholder's context
class indico.modules.designer.placeholders.RegistrationEmailPlaceholder
     Bases: indico.modules.designer.placeholders.RegistrationPlaceholder
     description = 1'E-mail'
     field = 'email'
     name = 'email'
class indico.modules.designer.placeholders.RegistrationAmountPlaceholder
     Bases: indico.modules.designer.placeholders.RegistrationPlaceholder
     description = l'Price (no currency) '
     name = 'amount'
     classmethod render (registration)
         Convert the placeholder to a string.
         When a placeholder contains HTML that should not be escaped, the returned value should be returned as
         a markupsafe. Markup instance instead of a plain string.
         Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwarqs.
             Parameters kwargs – arguments specific to the placeholder's context
class indico.modules.designer.placeholders.RegistrationPricePlaceholder
     Bases: indico.modules.designer.placeholders.RegistrationPlaceholder
     description = 1'Price (with currency)'
     name = 'price'
     classmethod render(registration)
         Convert the placeholder to a string.
         When a placeholder contains HTML that should not be escaped, the returned value should be returned as
         a markupsafe. Markup instance instead of a plain string.
         Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwarqs.
             Parameters kwargs – arguments specific to the placeholder's context
class indico.modules.designer.placeholders.RegistrationFriendlyIDPlaceholder
     Bases: indico.modules.designer.placeholders.RegistrationPlaceholder
     description = 1'Registration ID'
     field = 'friendly id'
```

```
name = 'registration_friendly_id'
class indico.modules.designer.placeholders.RegistrationAffiliationPlaceholder
    Bases: indico.modules.designer.placeholders.RegistrationPDPlaceholder
    description = l'Institution'
    field = 'affiliation'
    name = 'affiliation'
class indico.modules.designer.placeholders.RegistrationPositionPlaceholder
    Bases: indico.modules.designer.placeholders.RegistrationPDPlaceholder
    description = l'Position'
    field = 'position'
    name = 'position'
class indico.modules.designer.placeholders.RegistrationAddressPlaceholder
    Bases: indico.modules.designer.placeholders.RegistrationPDPlaceholder
    description = 1'Address'
    field = 'address'
    name = 'address'
class indico.modules.designer.placeholders.RegistrationCountryPlaceholder
    Bases: indico.modules.designer.placeholders.RegistrationPDPlaceholder
    description = 1'Country'
    field = 'country'
    name = 'country'
class indico.modules.designer.placeholders.RegistrationPhonePlaceholder
    Bases: indico.modules.designer.placeholders.RegistrationPDPlaceholder
    description = 1'Phone'
    field = 'phone'
    name = 'phone'
class indico.modules.designer.placeholders.EventTitlePlaceholder
    Bases: indico.modules.designer.placeholders.DesignerPlaceholder
    description = l'Event Title'
    group = 'event'
    name = 'event title'
    classmethod render(event)
        Convert the placeholder to a string.
        When a placeholder contains HTML that should not be escaped, the returned value should be returned as
        a markupsafe. Markup instance instead of a plain string.
        Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwargs.
```

7.1. API reference 323

Parameters kwargs — arguments specific to the placeholder's context class indico.modules.designer.placeholders.CategoryTitlePlaceholder Bases: indico.modules.designer.placeholders.DesignerPlaceholder

When a placeholder contains HTML that should not be escaped, the returned value should be returned as a markupsafe. Markup instance instead of a plain string.

Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwarqs.

Parameters kwargs – arguments specific to the placeholder's context

```
class indico.modules.designer.placeholders.EventRoomPlaceholder
    Bases: indico.modules.designer.placeholders.DesignerPlaceholder
    description = 1'Event Room'
    group = 'event'
```

```
name = 'event_room'
classmethod render(event)
```

Convert the placeholder to a string.

When a placeholder contains HTML that should not be escaped, the returned value should be returned as a markupsafe. Markup instance instead of a plain string.

Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwarqs.

Parameters kwargs – arguments specific to the placeholder's context

```
class indico.modules.designer.placeholders.EventVenuePlaceholder
    Bases: indico.modules.designer.placeholders.DesignerPlaceholder
    description = 1'Event Venue'
    group = 'event'
    name = 'event_venue'
```

Convert the placeholder to a string.

classmethod render(event)

When a placeholder contains HTML that should not be escaped, the returned value should be returned as a markupsafe. Markup instance instead of a plain string.

Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwarqs.

Parameters kwargs – arguments specific to the placeholder's context

```
class indico.modules.designer.placeholders.EventSpeakersPlaceholder
    Bases: indico.modules.designer.placeholders.DesignerPlaceholder
    description = l'Event Speakers/Chairs'
    group = 'event'
    name = 'event_speakers'
```

Convert the placeholder to a string.

classmethod render(event)

When a placeholder contains HTML that should not be escaped, the returned value should be returned as a markupsafe. Markup instance instead of a plain string.

Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwargs.

Parameters kwargs – arguments specific to the placeholder's context

```
class indico.modules.designer.placeholders.EventLogoPlaceholder
    Bases: indico.modules.designer.placeholders.DesignerPlaceholder
    description = l'Event Logo'
    group = 'event'
    is_image = True
    name = 'event_logo'
    classmethod render(event)
```

Convert the placeholder to a string.

When a placeholder contains HTML that should not be escaped, the returned value should be returned as a markupsafe. Markup instance instead of a plain string.

Subclasses are encouraged to explicitly specify the arguments they expect instead of using **kwargs.

Parameters kwargs – arguments specific to the placeholder's context

7.1.30 Network

Todo: Docstrings (module, models)

Models

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwarqs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```
group_id
network
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

```
attachment_access_override
```

Grants all IPs in the network group read access to all attachments

```
contains_ip (ip)
description
```

hidden

Whether the network group is hidden in ACL forms

id

locator

name

networks

A descriptor that presents a read/write view of an object attribute.

```
principal_order = 1
principal_type = 5
```

Utilities

```
indico.modules.networks.util.serialize_ip_network_group (group)
    Serialize group to JSON-like object.
```

7.1.31 News

Todo: Docstrings (module, models)

Models

```
class indico.modules.news.models.news.NewsItem(**kwargs)
    Bases: sqlalchemy.orm.decl_api.Model
```

A simple constructor that allows initialization from kwargs.

Sets attributes on the constructed instance using the names and values in kwargs.

Only keys that are present as attributes of the instance's class are allowed. These could be, for example, any mapped columns or relationships.

anchor

content

created_dt

id

locator

Define a smart locator property.

This behaves pretty much like a normal read-only property and the decorated function should return a dict containing the necessary data to build a URL for the object.

This decorator should usually be applied to a method named locator as this name is required for *get_locator* to find it automatically when just passing the object.

If you need more than one locator, you can define it like this:

```
@locator_property
def locator(self):
    return {...}

@locator.other
def locator(self):
    return {...}
```

The other locator can then be accessed by passing obj.locator.other to the code expecting an object with a locator.

slug title url

Utilities

```
indico.modules.news.util.get_recent_news()

Get a list of recent news for the home page.
```

7.1.32 Indico fields

```
Todo: Docstrings to all fields
```

event.

Indico fields extend from WTForm fields and are used for the special cases where the simple form fields are not enough to cover all needs.

```
class indico.modules.events.fields.EventPersonLinkListField(*args, **kwargs)
     Bases: indico.modules.events.fields.PersonLinkListFieldBase
     A field to manage event's chairpersons.
     linked_object_attr = 'event'
     person link cls
         alias of indico.modules.events.models.persons.EventPersonLink
     pre_validate(form)
         Override if you need field-level validation. Runs before any other validators.
             Parameters form – The form the field belongs to.
     widget = <indico.web.forms.widgets.JinjaWidget object>
class indico.modules.events.fields.EventPersonListField(*args, **kwargs)
     Bases: indico.web.forms.fields.principals.PrincipalListField
     A field that lets you select a list Indico user and EventPersons.
     This requires its form to have an event set.
     create_untrusted_persons = False
         Whether new event persons created by the field should be marked as untrusted
```

process formdata(valuelist)

```
Process data received over the wire from a form.
         This will be called during form construction with data supplied through the formdata argument.
             Parameters valuelist – A list of strings to process.
class indico.modules.events.fields.IndicoThemeSelectField(*args, **kwargs)
     Bases: wtforms.fields.core.SelectField
class indico.modules.events.fields.PersonLinkListFieldBase(*args, **kwargs)
     Bases: indico.modules.events.fields.EventPersonListField
     default_sort_alpha = True
         If set to True, will be sorted alphabetically by default
     linked_object_attr = None
         name of the attribute on the form containing the linked object
     person_link_cls = None
         class that inherits from PersonLinkBase
     widget = None
class indico.modules.events.fields.RatingReviewField(*args, **kwargs)
     Bases: wtforms.fields.core.RadioField
     widget = <indico.web.forms.widgets.JinjaWidget object>
class indico.modules.events.fields.ReferencesField(*args, **kwargs)
     Bases: indico.web.forms.fields.itemlists.MultipleItemsField
     A field to manage external references.
     pre_validate(form)
         Override if you need field-level validation. Runs before any other validators.
             Parameters form – The form the field belongs to.
     process_formdata(valuelist)
         Process data received over the wire from a form.
         This will be called during form construction with data supplied through the formdata argument.
             Parameters valuelist – A list of strings to process.
class indico.modules.events.abstracts.fields.AbstractField(*args, **kwargs)
     Bases: wtforms.ext.sqlalchemy.fields.QuerySelectField
     A selectize-based field to select an abstract from an event.
     event
     pre_validate(form)
         Override if you need field-level validation. Runs before any other validators.
             Parameters form – The form the field belongs to.
     search_payload
     search_url
     widget = <indico.web.forms.widgets.SelectizeWidget object>
class indico.modules.events.abstracts.fields.AbstractPersonLinkListField(*args,
                                                                                         **kwargs)
     Bases: indico.modules.events.fields.PersonLinkListFieldBase
```

```
A field to configure a list of abstract persons.
```

```
create_untrusted_persons = True
default_sort_alpha = False
linked_object_attr = 'abstract'
person_link_cls
    alias of indico.modules.events.abstracts.models.persons.AbstractPersonLink
pre_validate(form)
```

Override if you need field-level validation. Runs before any other validators.

Parameters form – The form the field belongs to.

```
widget = <indico.web.forms.widgets.JinjaWidget object>
```

```
class indico.modules.events.abstracts.fields.EmailRuleListField(label=None,
```

```
valida-
tors=None,
filters=(),
description=",
id=None,
default=None,
widget=None,
ren-
der_kw=None,
_form=None,
_name=None,
_prefix=",
_transla-
tions=None,
meta=None)
```

Bases: indico.web.forms.fields.simple.JSONField

A field that stores a list of e-mail template rules.

Construct a new field.

Parameters

- label The label of the field.
- validators A sequence of validators to call when validate is called.
- **filters** A sequence of filters which are run on input data by *process*.
- **description** A description for the field, typically used for help text.
- id An id to use for the field. A reasonable default is set by the form, and you shouldn't need to set this manually.
- **default** The default value to assign to the field, if no form or object input is provided. May be a callable.
- widget If provided, overrides the widget used to render the field.
- render_kw (dict) If provided, a dictionary which provides default keywords that will be given to the widget at render time.
- **_form** The form holding this field. It is passed by the form itself during construction. You should never pass this value yourself.

- __name The name of this field, passed by the enclosing form during its construction. You should never pass this value yourself.
- **_prefix** The prefix to prepend to the form name of this field, passed by the enclosing form during construction.
- _translations A translations object providing message translations. Usually passed by the enclosing form during construction. See I18n docs for information on message translations.
- _meta If provided, this is the 'meta' instance from the form. You usually don't pass this
 yourself.

```
CAN POPULATE = True
```

```
accepted_condition_types = (<class 'indico.modules.events.abstracts.notifications.Stat
condition_choices
condition_class_map = {'contribution_type': <class 'indico.modules.events.abstracts.n
pre_validate(form)</pre>
```

Parameters form – The form the field belongs to.

```
widget = <indico.web.forms.widgets.JinjaWidget object>
```

Override if you need field-level validation. Runs before any other validators.

```
class indico.modules.events.abstracts.fields.TrackRoleField(label=None,
                                                                                        val-
                                                                          idators=None,
                                                                         filters=(),
                                                                                   descrip-
                                                                         tion=",
                                                                                   id=None,
                                                                          default=None,
                                                                          widget=None,
                                                                          der_kw=None,
                                                                          _form=None,
                                                                          _name=None,
                                                                          _prefix=",
                                                                                    _trans-
                                                                         lations=None,
                                                                          meta=None)
```

Bases: indico.web.forms.fields.simple.JSONField

A field to assign track roles to principals.

Construct a new field.

Parameters

- label The label of the field.
- **validators** A sequence of validators to call when *validate* is called.
- **filters** A sequence of filters which are run on input data by *process*.
- **description** A description for the field, typically used for help text.
- id An id to use for the field. A reasonable default is set by the form, and you shouldn't need to set this manually.
- default The default value to assign to the field, if no form or object input is provided.
 May be a callable.

**kwargs

- widget If provided, overrides the widget used to render the field.
- render_kw (dict) If provided, a dictionary which provides default keywords that will be given to the widget at render time.
- **_form** The form holding this field. It is passed by the form itself during construction. You should never pass this value yourself.
- _name The name of this field, passed by the enclosing form during its construction. You should never pass this value yourself.
- _prefix The prefix to prepend to the form name of this field, passed by the enclosing form during construction.
- _translations A translations object providing message translations. Usually passed by the enclosing form during construction. See I18n docs for information on message translations.
- _meta If provided, this is the 'meta' instance from the form. You usually don't pass this yourself.

If form and name isn't provided, an UnboundField will be returned instead. Call its bind () method with a form instance and a name to construct the field.

```
CAN_POPULATE = True
    category_roles
    event roles
    permissions info
    widget = <indico.web.forms.widgets.JinjaWidget object>
class indico.modules.events.contributions.fields.ContributionPersonLinkListField(*args,
                                                                                             **kwargs)
    Bases: indico.modules.events.fields.PersonLinkListFieldBase
    A field to configure a list of contribution persons.
    linked_object_attr = 'contrib'
    person link cls
         alias
                               indico.modules.events.contributions.models.persons.
         ContributionPersonLink
    pre validate(form)
         Override if you need field-level validation. Runs before any other validators.
            Parameters form – The form the field belongs to.
    widget = <indico.web.forms.widgets.JinjaWidget object>
class indico.modules.events.contributions.fields.SubContributionPersonLinkListField(*args,
    \textbf{Bases:} \ \textit{indico.modules.events.} contributions. \textit{fields.ContributionPersonLinkListField}
    A field to configure a list of subcontribution persons.
    linked_object_attr = 'subcontrib'
    person_link_cls
         alias
                               indico.modules.events.contributions.models.persons.
         SubContributionPersonLink
    widget = <indico.web.forms.widgets.JinjaWidget object>
```

filters=(),
description=",
id=None,
default=None,
widget=None,
render_kw=None,
_name=None,
_prefix=",
_translations=None,
_meta=None)

Bases: indico.web.forms.fields.simple.JSONField

Construct a new field.

Parameters

- label The label of the field.
- **validators** A sequence of validators to call when *validate* is called.
- **filters** A sequence of filters which are run on input data by *process*.
- **description** A description for the field, typically used for help text.
- id An id to use for the field. A reasonable default is set by the form, and you shouldn't need to set this manually.
- default The default value to assign to the field, if no form or object input is provided.
 May be a callable.
- widget If provided, overrides the widget used to render the field.
- render_kw (dict) If provided, a dictionary which provides default keywords that will be given to the widget at render time.
- **_form** The form holding this field. It is passed by the form itself during construction. You should never pass this value yourself.
- __name The name of this field, passed by the enclosing form during its construction. You should never pass this value yourself.
- **_prefix** The prefix to prepend to the form name of this field, passed by the enclosing form during construction.
- _translations A translations object providing message translations. Usually passed by the enclosing form during construction. See I18n docs for information on message translations.
- _meta If provided, this is the 'meta' instance from the form. You usually don't pass this yourself.

If _form and _name isn't provided, an UnboundField will be returned instead. Call its bind() method with a form instance and a name to construct the field.

```
CAN POPULATE = True
     event
     process_formdata(valuelist)
         Process data received over the wire from a form.
         This will be called during form construction with data supplied through the formdata argument.
             Parameters valuelist – A list of strings to process.
     widget = <indico.web.forms.widgets.JinjaWidget object>
class indico.modules.events.sessions.fields.SessionBlockPersonLinkListField(*args,
                                                                                                **kwargs)
     Bases: indico.modules.events.fields.PersonLinkListFieldBase
     linked_object_attr = 'session_block'
     person link cls
                                        indico.modules.events.sessions.models.persons.
         alias
                          \alphaf
         SessionBlockPersonLink
     widget = <indico.web.forms.widgets.JinjaWidget object>
class indico.modules.categories.fields.CategoryField(*args, **kwargs)
     Bases: wtforms.fields.simple.HiddenField
     WTForms field that lets you select a category.
         Parameters require_event_creation_rights - Whether to allow selecting only cate-
             gories where the user can create events.
     process_data(value)
         Process the Python data applied to this field and store the result.
         This will be called during form construction by the form's kwargs or obj argument.
             Parameters value – The python object containing the value to process.
     process formdata(valuelist)
         Process data received over the wire from a form.
         This will be called during form construction with data supplied through the formdata argument.
             Parameters valuelist – A list of strings to process.
     widget = <indico.web.forms.widgets.JinjaWidget object>
class indico.modules.networks.fields.MultiIPNetworkField(*args, **kwargs)
     Bases: indico.web.forms.fields.itemlists.MultiStringField
     A field to enter multiple IPv4 or IPv6 networks.
     The field data is a set of IPNetwork``s not bound to a DB session. The ``unique and
     sortable parameters of the parent class cannot be used with this class.
     pre_validate(form)
         Override if you need field-level validation. Runs before any other validators.
             Parameters form – The form the field belongs to.
     process data(value)
         Process the Python data applied to this field and store the result.
         This will be called during form construction by the form's kwargs or obj argument.
```

7.1. API reference 333

Parameters value – The python object containing the value to process.

```
process formdata(valuelist)
```

Process data received over the wire from a form.

This will be called during form construction with data supplied through the *formdata* argument.

Parameters valuelist – A list of strings to process.

```
class indico.web.forms.fields.IndicoSelectMultipleCheckboxField(label=None,
                                                                        valida-
                                                                        tors=None.
                                                                        coerce=<class
                                                                        'str'>,
                                                                        choices=None,
                                                                        vali-
                                                                        date_choice=True,
                                                                        **kwargs)
    Bases: wtforms.fields.core.SelectMultipleField
    option_widget = <wtforms.widgets.core.CheckboxInput object>
    widget = <indico.web.forms.widgets.JinjaWidget object>
class indico.web.forms.fields.IndicoRadioField(*args, **kwargs)
    Bases: wtforms.fields.core.RadioField
    widget = <indico.web.forms.widgets.JinjaWidget object>
class indico.web.forms.fields.JSONField (label=None, validators=None, filters=(), descrip-
                                             tion=", id=None, default=None, widget=None,
                                             render_kw=None, _form=None, _name=None,
                                             _prefix=", _translations=None, _meta=None)
    Bases: wtforms.fields.simple.HiddenField
```

Construct a new field.

Parameters

- label The label of the field.
- validators A sequence of validators to call when *validate* is called.
- **filters** A sequence of filters which are run on input data by *process*.
- **description** A description for the field, typically used for help text.
- id An id to use for the field. A reasonable default is set by the form, and you shouldn't need to set this manually.
- default The default value to assign to the field, if no form or object input is provided.
 May be a callable.
- widget If provided, overrides the widget used to render the field.
- render_kw (dict) If provided, a dictionary which provides default keywords that will be given to the widget at render time.
- **_form** The form holding this field. It is passed by the form itself during construction. You should never pass this value yourself.
- __name The name of this field, passed by the enclosing form during its construction. You should never pass this value yourself.
- **_prefix** The prefix to prepend to the form name of this field, passed by the enclosing form during construction.

- _translations A translations object providing message translations. Usually passed by the enclosing form during construction. See I18n docs for information on message translations
- _meta If provided, this is the 'meta' instance from the form. You usually don't pass this yourself.

CAN POPULATE = False

Whether an object may be populated with the data from this field

populate_obj (obj, name)

Populates *obj.* < name > with the field's data.

Note This is a destructive operation. If *obj.*<*name*> already exists, it will be overridden. Use with caution.

process_formdata(valuelist)

Process data received over the wire from a form.

This will be called during form construction with data supplied through the *formdata* argument.

Parameters valuelist – A list of strings to process.

Bases: wtforms.fields.simple.HiddenField

A hidden field that handles lists of strings.

This is done getlist-style, i.e. by repeating the input element with the same name for each list item.

The only case where this field is useful is when you display a form via POST and provide a list of items (e.g. ids) related to the form which needs to be kept when the form is submitted and also need to access it via request.form.getlist(...) before submitting the form.

Construct a new field.

Parameters

- label The label of the field.
- **validators** A sequence of validators to call when *validate* is called.
- **filters** A sequence of filters which are run on input data by *process*.
- **description** A description for the field, typically used for help text.
- id An id to use for the field. A reasonable default is set by the form, and you shouldn't need to set this manually.
- default The default value to assign to the field, if no form or object input is provided.
 May be a callable.
- widget If provided, overrides the widget used to render the field.
- render_kw (dict) If provided, a dictionary which provides default keywords that will be given to the widget at render time.
- **_form** The form holding this field. It is passed by the form itself during construction. You should never pass this value yourself.

- __name The name of this field, passed by the enclosing form during its construction. You should never pass this value yourself.
- **_prefix** The prefix to prepend to the form name of this field, passed by the enclosing form during construction.
- _translations A translations object providing message translations. Usually passed by the enclosing form during construction. See I18n docs for information on message translations.
- _meta If provided, this is the 'meta' instance from the form. You usually don't pass this
 yourself.

process_formdata(valuelist)

Process data received over the wire from a form.

This will be called during form construction with data supplied through the *formdata* argument.

Parameters valuelist – A list of strings to process.

```
widget = <indico.web.forms.widgets.HiddenInputs object>
```

Bases: wtforms.fields.simple.TextAreaField

Construct a new field.

Parameters

- label The label of the field.
- validators A sequence of validators to call when validate is called.
- **filters** A sequence of filters which are run on input data by *process*.
- **description** A description for the field, typically used for help text.
- id An id to use for the field. A reasonable default is set by the form, and you shouldn't need to set this manually.
- default The default value to assign to the field, if no form or object input is provided.
 May be a callable.
- widget If provided, overrides the widget used to render the field.
- render_kw (dict) If provided, a dictionary which provides default keywords that will be given to the widget at render time.
- **_form** The form holding this field. It is passed by the form itself during construction. You should never pass this value yourself.
- __name The name of this field, passed by the enclosing form during its construction. You should never pass this value yourself.
- **_prefix** The prefix to prepend to the form name of this field, passed by the enclosing form during construction.

- _translations A translations object providing message translations. Usually passed by the enclosing form during construction. See I18n docs for information on message translations.
- _meta If provided, this is the 'meta' instance from the form. You usually don't pass this yourself.

pre_validate(form)

Override if you need field-level validation. Runs before any other validators.

Parameters form – The form the field belongs to.

process_formdata(valuelist)

Process data received over the wire from a form.

This will be called during form construction with data supplied through the formdata argument.

Parameters valuelist – A list of strings to process.

Bases: indico.web.forms.fields.simple.TextListField

Construct a new field.

Parameters

- label The label of the field.
- validators A sequence of validators to call when *validate* is called.
- **filters** A sequence of filters which are run on input data by *process*.
- **description** A description for the field, typically used for help text.
- id An id to use for the field. A reasonable default is set by the form, and you shouldn't need to set this manually.
- default The default value to assign to the field, if no form or object input is provided.
 May be a callable.
- widget If provided, overrides the widget used to render the field.
- **render_kw** (dict) If provided, a dictionary which provides default keywords that will be given to the widget at render time.
- **_form** The form holding this field. It is passed by the form itself during construction. You should never pass this value yourself.
- _name The name of this field, passed by the enclosing form during its construction. You should never pass this value yourself.
- _prefix The prefix to prepend to the form name of this field, passed by the enclosing form during construction.
- _translations A translations object providing message translations. Usually passed by the enclosing form during construction. See I18n docs for information on message translations.

• _meta - If provided, this is the 'meta' instance from the form. You usually don't pass this yourself.

If _form and _name isn't provided, an UnboundField will be returned instead. Call its bind() method with a form instance and a name to construct the field.

```
process_formdata(valuelist)
```

Process data received over the wire from a form.

This will be called during form construction with data supplied through the *formdata* argument.

Parameters valuelist – A list of strings to process.

```
class indico.web.forms.fields.IndicoPasswordField(*args, **kwargs)
    Bases: wtforms.fields.simple.PasswordField
```

Password field which can show or hide the password.

```
widget = <indico.web.forms.widgets.PasswordWidget object>
```

```
class indico.web.forms.fields.IndicoStaticTextField(*args, **kwargs)
    Bases: wtforms.fields.core.Field
```

Return an html element with text taken from this field's value.

```
process_data(data)
```

Process the Python data applied to this field and store the result.

This will be called during form construction by the form's *kwargs* or *obj* argument.

Parameters value – The python object containing the value to process.

```
widget = <indico.web.forms.widgets.JinjaWidget object>
```

Bases: indico.web.forms.fields.simple.HiddenFieldList

Construct a new field.

Parameters

- label The label of the field.
- **validators** A sequence of validators to call when *validate* is called.
- **filters** A sequence of filters which are run on input data by *process*.
- **description** A description for the field, typically used for help text.
- id An id to use for the field. A reasonable default is set by the form, and you shouldn't need to set this manually.
- default The default value to assign to the field, if no form or object input is provided.
 May be a callable.
- widget If provided, overrides the widget used to render the field.
- render_kw (dict) If provided, a dictionary which provides default keywords that will be given to the widget at render time.
- **_form** The form holding this field. It is passed by the form itself during construction. You should never pass this value yourself.

- __name The name of this field, passed by the enclosing form during its construction. You should never pass this value yourself.
- **_prefix** The prefix to prepend to the form name of this field, passed by the enclosing form during construction.
- _translations A translations object providing message translations. Usually passed by the enclosing form during construction. See I18n docs for information on message translations.
- _meta If provided, this is the 'meta' instance from the form. You usually don't pass this yourself.

```
widget = <indico.web.forms.widgets.JinjaWidget object>
```

```
class indico.web.forms.fields.IndicoPalettePickerField(*args, **kwargs)
```

Bases: indico.web.forms.fields.simple.JSONField

Field allowing user to pick a color from a set of predefined values.

```
CAN_POPULATE = True
```

```
pre_validate(form)
```

Override if you need field-level validation. Runs before any other validators.

Parameters form – The form the field belongs to.

```
process data(value)
```

Process the Python data applied to this field and store the result.

This will be called during form construction by the form's kwargs or obj argument.

Parameters value – The python object containing the value to process.

```
process_formdata(valuelist)
```

Process data received over the wire from a form.

This will be called during form construction with data supplied through the *formdata* argument.

Parameters valuelist – A list of strings to process.

```
widget = <indico.web.forms.widgets.JinjaWidget object>
```

```
class indico.web.forms.fields.IndicoSinglePalettePickerField(*args, **kwargs)
    Bases: indico.web.forms.fields.colors.IndicoPalettePickerField
```

Like IndicoPalettePickerField but for just a single color.

```
pre_validate(form)
```

Override if you need field-level validation. Runs before any other validators.

Parameters form – The form the field belongs to.

```
process_formdata(valuelist)
```

Process data received over the wire from a form.

This will be called during form construction with data supplied through the *formdata* argument.

Parameters valuelist – A list of strings to process.

```
class indico.web.forms.fields.TimeDeltaField(*args, **kwargs)
    Bases: wtforms.fields.core.Field
```

A field that lets the user select a simple timedelta.

It does not support mixing multiple units, but it is smart enough to switch to a different unit to represent a timedelta that could not be represented otherwise.

Parameters units – The available units. Must be a tuple containing any any of 'seconds', 'minutes', 'hours' and 'days'. If not specified, ('hours', 'days') is assumed.

best unit

Return the largest unit that covers the current timedelta.

choices

```
magnitudes = {'days': 86400, 'hours': 3600, 'minutes': 60, 'seconds': 1}
pre_validate(form)
```

Override if you need field-level validation. Runs before any other validators.

Parameters form – The form the field belongs to.

```
process_formdata(valuelist)
```

Process data received over the wire from a form.

This will be called during form construction with data supplied through the *formdata* argument.

Parameters valuelist – A list of strings to process.

```
unit_names = {'days': 'Days', 'hours': 'Hours', 'minutes': 'Minutes', 'seconds':
widget = <indico.web.forms.widgets.JinjaWidget object>
```

```
\verb|class| indico.web.forms.fields.IndicoDateTimeField(*|args, **kwargs)|
```

Bases: wtforms.ext.dateutil.fields.DateTimeField

Friendly datetime field that handles timezones and validations.

Important: When the form has a *timezone* field it must be declared before any *IndicoDateTimeField*. Otherwise its value is not available in this field resulting in an error during form submission.

```
earliest_dt
```

latest_dt

linked_datetime_validator

linked_field

pre_validate(form)

Override if you need field-level validation. Runs before any other validators.

Parameters form - The form the field belongs to.

```
process formdata(valuelist)
```

Process data received over the wire from a form.

This will be called during form construction with data supplied through the *formdata* argument.

Parameters valuelist – A list of strings to process.

```
timezone
```

timezone_field

tzinfo

```
widget = <indico.web.forms.widgets.JinjaWidget object>
```

```
class indico.web.forms.fields.OccurrencesField(*args, **kwargs)
```

Bases: indico.web.forms.fields.simple.JSONField

```
A field that lets you select multiple occurrences consisting of a start date/time and a duration.

CAN_POPULATE = True
```

process_formdata(valuelist)

Process data received over the wire from a form.

This will be called during form construction with data supplied through the *formdata* argument.

Parameters valuelist – A list of strings to process.

```
timezone
```

timezone field

```
widget = <indico.web.forms.widgets.JinjaWidget object>
```

```
class indico.web.forms.fields.IndicoTimezoneSelectField(*args, **kwargs)
    Bases: wtforms.fields.core.SelectField
```

```
process_data(value)
```

Process the Python data applied to this field and store the result.

This will be called during form construction by the form's *kwargs* or *obj* argument.

Parameters value – The python object containing the value to process.

```
class indico.web.forms.fields.IndicoEnumSelectField(label=None, validators=None, enum=None, sorted=False, only=None, skip=None, none=None, titles=None, keep_enum=True, **kwargs)

Bases: indico.web.forms.fields.enums.FnumFieldMixin.wtforms.fields.co
```

Bases: indico.web.forms.fields.enums._EnumFieldMixin, wtforms.fields.core. SelectFieldBase

Select field backed by a RichEnum.

```
iter_choices()
```

Provides data for choice widget rendering. Must return a sequence or iterable of (value, label, selected) tuples.

```
widget = <wtforms.widgets.core.Select object>
```

 $Bases: \verb|indico.web.forms.fields.enums.IndicoEnumSelectField|$

```
option_widget = <wtforms.widgets.core.RadioInput object>
widget = <indico.web.forms.widgets.JinjaWidget object>
```

Bases: indico.web.forms.fields.enums._EnumFieldMixin, wtforms.fields.simple. HiddenField

Hidden field that only accepts values from an Enum.

process_formdata(valuelist)

Process data received over the wire from a form.

This will be called during form construction with data supplied through the *formdata* argument.

Parameters valuelist – A list of strings to process.

```
class indico.web.forms.fields.FileField(*args, **kwargs)
    Bases: wtforms.fields.core.Field
```

A dropzone field.

```
default_options = {'add_remove_links': True, 'handle_flashes': False, 'lightweight':
    process_formdata(valuelist)
```

Process data received over the wire from a form.

This will be called during form construction with data supplied through the formdata argument.

Parameters valuelist – A list of strings to process.

```
widget = <indico.web.forms.widgets.JinjaWidget object>
class indico.web.forms.fields.MultiStringField(*args, **kwargs)
```

```
Bases: wtforms.fields.simple.HiddenField
```

A field with multiple input text fields.

Parameters

- field A tuple (fieldname, title) where the title is used in the placeholder.
- uuid_field If set, each item will have a UUID assigned and stored in the field specified here.
- flat If True, the field returns a list of string values instead of dicts. Cannot be combined with uuid_field.
- unique Whether the values should be unique.
- **sortable** Whether items should be sortable.

```
pre_validate(form)
```

Override if you need field-level validation. Runs before any other validators.

Parameters form – The form the field belongs to.

```
process formdata(valuelist)
```

Process data received over the wire from a form.

This will be called during form construction with data supplied through the formdata argument.

Parameters valuelist – A list of strings to process.

```
widget = <indico.web.forms.widgets.JinjaWidget object>
class indico.web.forms.fields.MultipleItemsField(*args, **kwargs)
    Bases: wtforms.fields.simple.HiddenField
```

A field with multiple items consisting of multiple string values.

Parameters

• **fields** – A list of dicts with the following arguments: 'id': the unique ID of the field 'caption': the title of the column and the placeholder 'type': 'textlnumberlselect', the type of the field 'coerce': callable to convert the value to a python type.

the type must be comvertible back to a string, so usually you just want something like *int* or *float* here.

In case the type is 'select', the property 'choices' of the *MultipleItemsField* or the 'choices' kwarg needs to be a dict where the key is the 'id' of the select field and the value is another dict mapping the option's id to it caption.

- uuid_field If set, each item will have a UUID assigned and stored in the field specified here. The name specified here may not be in *fields*.
- uuid_field_opaque If set, the *uuid_field* is considered opaque, i.e. it is never touched by this field. This is useful when you subclass the field and use e.g. actual database IDs instead of UUIDs.
- unique_field The name of a field in *fields* that needs to be unique.
- **sortable** Whether items should be sortable.

pre_validate(form)

Override if you need field-level validation. Runs before any other validators.

Parameters form – The form the field belongs to.

process_formdata(valuelist)

Process data received over the wire from a form.

This will be called during form construction with data supplied through the *formdata* argument.

Parameters valuelist – A list of strings to process.

```
widget = <indico.web.forms.widgets.JinjaWidget object>
```

```
class indico.web.forms.fields.OverrideMultipleItemsField(*args, **kwargs)
    Bases: wtforms.fields.simple.HiddenField
```

A field similar to MultipleItemsField which allows the user to override some values.

Parameters

- **fields** a list of (fieldname, title) tuples. Should match the fields of the corresponding *MultipleItemsField*.
- **field_data** the data from the corresponding *MultipleItemsField*.
- unique_field the name of the field which is unique among all rows
- edit_fields a set containing the field names which can be edited

If you decide to use this field, please consider adding support for *uuid_field* here!

get_overridden_value(row, name)

Utility for the widget to get the entered value for an editable field.

```
get row key (row)
```

Utility for the widget to get the unique value for a row.

```
pre_validate(form)
```

Override if you need field-level validation. Runs before any other validators.

Parameters form – The form the field belongs to.

```
process_formdata(valuelist)
```

Process data received over the wire from a form.

This will be called during form construction with data supplied through the *formdata* argument.

Parameters valuelist – A list of strings to process.

```
widget = <indico.web.forms.widgets.JinjaWidget object>
```

```
class indico.web.forms.fields.PrincipalListField(*args, **kwargs)
    Bases: wtforms.fields.simple.HiddenField
```

A field that lets you select a list of principals.

Principals are users or other objects represending users such as groups or roles that can be added to ACLs.

Parameters

- allow_external_users If "search users with no indico account" should be available. Selecting such a user will automatically create a pending user once the form is submitted, even if other fields in the form fail to validate!
- allow_groups If groups should be selectable.
- allow_event_roles If event roles should be selectable.
- allow_category_roles If category roles should be selectable.
- allow_registration_forms If registration form associated to an event should be selectable.
- allow_emails If the field should allow bare emails. Those are not selectable in the widget, but may be added to an ACL through other means.

process_formdata(valuelist)

Process data received over the wire from a form.

This will be called during form construction with data supplied through the *formdata* argument.

Parameters valuelist – A list of strings to process.

```
widget = <indico.web.forms.widgets.JinjaWidget object>
```

```
class indico.web.forms.fields.PrincipalField(*args, **kwargs)
    Bases: wtforms.fields.simple.HiddenField
```

A field that lets you select a single Indico user.

Parameters allow_external_users – If "search users with no indico account" should be available. Selecting such a user will automatically create a pending user once the form is submitted, even if other fields in the form fail to validate!

```
process_formdata(valuelist)
```

Process data received over the wire from a form.

This will be called during form construction with data supplied through the *formdata* argument.

Parameters valuelist – A list of strings to process.

```
widget = <indico.web.forms.widgets.JinjaWidget object>
```

```
class indico.web.forms.fields.AccessControlListField(*args, **kwargs)
    Bases: indico.web.forms.fields.principals.PrincipalListField
```

```
\textbf{class} \texttt{ indico.web.forms.fields.IndicoQuerySelectMultipleField} (*args, **kwargs)
```

 $Bases: \verb|wtforms.ext.sqlalchemy.fields.QuerySelectMultipleField| \\$

Like the parent, but with a callback that allows you to modify the list

The callback can return a new list or yield items, and you can use it e.g. to sort the list.

data

```
class indico.web.forms.fields.EditableFileField(*args, **kwargs)
    Bases: indico.web.forms.fields.files.FileField
```

A dropzone field that displays its current state and keeps track of deletes.

```
process_formdata(valuelist)
```

Process data received over the wire from a form.

This will be called during form construction with data supplied through the *formdata* argument.

Parameters valuelist – A list of strings to process.

CAN POPULATE = True

process formdata(valuelist)

Process data received over the wire from a form.

This will be called during form construction with data supplied through the *formdata* argument.

Parameters valuelist – A list of strings to process.

```
widget = <indico.web.forms.widgets.LocationWidget object>
class indico.web.forms.fields.IndicoMarkdownField(*args, **kwargs)
    Bases: wtforms.fields.simple.TextAreaField
```

A Markdown-enhanced textarea.

When using the editor you need to include the markdown JS/CSS bundles and also the MathJax JS bundle (even when using only the editor without Mathjax).

Parameters

```
• editor – Whether to use the WMD widget with its live preview
```

• mathjax – Whether to use MathJax in the WMD live preview

```
class indico.web.forms.fields.IndicoDateField(*args, **kwargs)
    Bases: wtforms.ext.dateutil.fields.DateField
```

widget = <indico.web.forms.widgets.JinjaWidget object>

```
earliest_date
latest_date
linked_date_validator
linked_field
widget = <indico.web.forms.widgets.JinjaWidget object>
```

class indico.web.forms.fields.IndicoProtectionField(*args, **kwargs)

Bases: indico.web.forms.fields.enums.IndicoEnumRadioField

radio_widget = <indico.web.forms.widgets.JinjaWidget object>
render_protection_message()

```
widget = <indico.web.forms.widgets.JinjaWidget object>
class indico.web.forms.fields.IndicoSelectMultipleCheckboxBooleanField(label=None,
                                                                                         val-
                                                                                         ida-
                                                                                         tors=None.
                                                                                         co-
                                                                                         erce=<class
                                                                                         'str'>.
                                                                                         choices=None,
                                                                                         vali-
                                                                                         date_choice=True,
                                                                                         **kwargs)
     Bases: indico.web.forms.fields.simple.IndicoSelectMultipleCheckboxField
     iter choices()
         Provides data for choice widget rendering. Must return a sequence or iterable of (value, label, selected)
         tuples.
     process_formdata(valuelist)
         Process data received over the wire from a form.
         This will be called during form construction with data supplied through the formdata argument.
             Parameters valuelist – A list of strings to process.
class indico.web.forms.fields.RelativeDeltaField(*args, **kwargs)
     Bases: wtforms.fields.core.Field
     A field that lets the user select a simple timedelta.
     It does not support mixing multiple units, but it is smart enough to switch to a different unit to represent a
     timedelta that could not be represented otherwise.
         Parameters units - The available units. Must be a tuple containing any any of 'seconds', 'min-
             utes', 'hours' and 'days'. If not specified, ('hours', 'days') is assumed.
     choices
     magnitudes = {'days': relativedelta(days=+1), 'hours': relativedelta(hours=+1),
     pre_validate(form)
         Override if you need field-level validation. Runs before any other validators.
             Parameters form – The form the field belongs to.
     process_formdata(valuelist)
         Process data received over the wire from a form.
         This will be called during form construction with data supplied through the formdata argument.
             Parameters valuelist – A list of strings to process.
     split_data
     unit_names = {'days': 'Days', 'hours': 'Hours', 'minutes': 'Minutes', 'months':
     widget = <indico.web.forms.widgets.JinjaWidget object>
class indico.web.forms.fields.IndicoWeekDayRepetitionField(*args, **kwargs)
     Bases: wtforms.fields.core.Field
     Field that lets you select an ordinal day of the week.
     WEEK_DAY_NUMBER_CHOICES = ((1, 1'first'), (2, 1'second'), (3, 1'third'), (4, 1'fourth'
```

day_number_data

```
process formdata(valuelist)
```

Process data received over the wire from a form.

This will be called during form construction with data supplied through the *formdata* argument.

Parameters valuelist – A list of strings to process.

```
week_day_data
```

```
widget = <indico.web.forms.widgets.JinjaWidget object>
```

Bases: wtforms.fields.core.Field

Construct a new field.

Parameters

- label The label of the field.
- **validators** A sequence of validators to call when *validate* is called.
- **filters** A sequence of filters which are run on input data by *process*.
- **description** A description for the field, typically used for help text.
- id An id to use for the field. A reasonable default is set by the form, and you shouldn't need to set this manually.
- default The default value to assign to the field, if no form or object input is provided.
 May be a callable.
- widget If provided, overrides the widget used to render the field.
- render_kw (dict) If provided, a dictionary which provides default keywords that will be given to the widget at render time.
- _form The form holding this field. It is passed by the form itself during construction.
 You should never pass this value yourself.
- _name The name of this field, passed by the enclosing form during its construction. You should never pass this value yourself.
- _prefix The prefix to prepend to the form name of this field, passed by the enclosing form during construction.
- _translations A translations object providing message translations. Usually passed by the enclosing form during construction. See I18n docs for information on message translations.
- _meta If provided, this is the 'meta' instance from the form. You usually don't pass this yourself.

```
process_data(data)
```

Process the Python data applied to this field and store the result.

This will be called during form construction by the form's kwargs or obj argument.

Parameters value – The python object containing the value to process.

```
widget = <indico.web.forms.widgets.JinjaWidget object>
```

Bases: wtforms.fields.core.TimeField

widget = <indico.web.forms.widgets.JinjaWidget object>

CHAPTER 8

What's New

8.1 Changelog

8.1.1 Version 3.0.2

Released on September 09, 2021

Bugfixes

• Fix JavaScript errors on the login page which caused problems when using multiple form-based login methods (e.g. LDAP and local Indico accounts)

8.1.2 Version 3.0.1

Released on September 08, 2021

Improvements

- Allow filtering abstracts by custom fields having no value (#5033, #5034)
- Add support for syncing email addresses when logging in using external accounts (#5035)
- Use more space-efficient QR code version in registration tickets (#5052)
- Improve user experience when accessing an event restricted to registered participants while not logged in (#5053)
- When searching external users, prefer results with a name in case of multiple matches with the same email address (#5066)
- Show program codes in additional places (#5075)
- Display localized country names (#5070, #5076)

Bugfixes

- Show correct placeholders in date picker fields (#5022)
- Correctly preselect the default currency when creating a registration form
- Do not notify registrants when a payment transaction is created in "pending" state
- Keep the order of multi-choice options in registration summary (#5020, #5032)
- Correctly handle relative URLs in PDF generation (#5042, #5044)
- Render markdown in track descriptions in PDF generation (#5043, #5044)
- Fix error when importing chairpersons from an existing event (#5047)
- Fix broken timetable entry permalinks when query string args are present (#5049)
- Do not show "Payments" event management menu entry for registration managers (#5072)
- Replace some hardcoded date formats with locale-aware ones (#5059, #5071)
- Clone the scientific program description together with tracks (#5077)
- Fix database error when importing registrations to an event that already contains a deleted registration form with registrations (#5078)

Internal Changes

- Add event.before_check_registration_email signal (#5021, thanks @omegak)
- Do not strip image maps in places where HTML is allowed (#5026, thanks @bpedersen2)
- Add event.registration.after_registration_form_clone signal (#5037, thanks @vas-antvohra)
- Add registration-invite-options template hook (#5045, thanks @vasantvohra)
- Fix Typeahead widget not working with extra validators (#5048, #5050, thanks @jbtwist)

8.1.3 Version 3.0

Released on July 16, 2021

Major Features

- Add system notices which inform administrators about important things such as security problems or outdated Python/Postgres versions. These notices are retrieved once a day without sending any data related to the Indico instance, but if necessary, this feature can be disabled by setting SYSTEM_NOTICES_URL to None in indico.conf (#5004)
- It is now possible to use SAML SSO for authentication without the need for Shibboleth and Apache (#5014)

Bugfixes

- Fix formatting and datetime localization in various PDF exports and timetable tab headers (#5009)
- Show lecture speakers as speakers instead of chairpersons on the participant roles page (#5008)

Internal Changes

- Signals previously exposed directly via signals.foo now need to be accessed using their explicit name, i.e. signals.core.foo (#5007)
- Add category.extra_events signal (#5005, thanks @omegak)

8.1.4 Version 3.0rc2

Released on July 09, 2021

Major Features

Add support for personal tokens. These tokens act like OAuth tokens, but are associated with a specific user
and generated manually without the need of doing the OAuth flow. They can be used like API keys but with
better granularity using the same scopes OAuth applications have, and a single user can have multiple tokens
using various scopes. By default any user can create such tokens, but admins can restrict their creation. (#1934,
#4976)

Improvements

- Add abstract content to the abstract list customization options (#4968)
- Add CLI option to create a series (#4969)
- Users cannot submit multiple anonymous surveys anymore by logging out and in again (#4693, #4970)
- Improve reviewing state display for paper reviewers (#4979, #4984)
- Make it clearer if the contributions/timetable of a conference are still in draft mode (#4977, #4986)
- Add "send to speakers" option in event reminders (#4958, #4966, thanks @Naveenaidu)
- Allow displaying all events descending from a category (#4982, #4983, thanks @omegak and @openprojects).
- Add an option to allow non-judge conveners to update an abstract track (#4989)

Bugfixes

- Fix errors when importing events containing abstracts or event roles from a YAML dump (#4995)
- Fix sorting abstract notification rules (#4998)
- No longer silently fall back to the first event contact email address when sending registration emails where no explicit sender address has been configured (#4992, #4996, thanks @vasantvohra)
- Do not check for event access when using a registration link with a registration token (#4991, #4997, thanks @vasantvohra)

8.1.5 Version 3.0rc1

Released on June 25, 2021

8.1. Changelog 351

Major Features

- There is a new built-in search module which provides basic search functionality out of the box, and for more advanced needs (such as full text search in uploaded files) plugins can provide their own search functionality (e.g. using ElasticSearch). (#4841)
- Categories may now contain both events and subcategories at the same time. During the upgrade to 3.0 event creation is automatically set to restricted in all categories containing subcategories in order to avoid any negative surprises which would suddenly allow random Indico users to create events in places where they couldn't do so previously. (#4679, #4725, #4757)
- The OAuth provider module has been re-implemented based on a more modern library (authlib). Support for the somewhat insecure *implicit flow* has been removed in favor of the code-with-PKCE flow. Tokens are now stored more securely as a hash instead of plaintext. For a given user/app/scope combination, only a certain amount of tokens are stored; once the limit has been reached older tokens will be discarded. The OAuth provider now exposes its metadata via a well-known URI (RFC 8414) and also has endpoints to introspect or revoke a token. (#4685, #4798)
- User profile pictures (avatars) are now shown in many more places throughout Indico, such as user search results, meeting participant lists and reviewing timelines. (#4625, #4747, #4939)

Internationalization

• New locale: English (United States)

· New translation: Turkish

Improvements

- Use a more modern search dialog when searching for users (#4674, #4743)
- Add an option to refresh event person data from the underlying user when cloning an event (#4750, #4760)
- Add options for attaching iCal files to complete registration and event reminder emails (#1158, #4780)
- Use the new token-based URLs instead of API keys for persistent ical links and replace the calendar link widgets in category, event, session and contribution views with the more modern ones used in dashboard (#4776, #4801)
- Add an option to export editables to JSON (#4767, #4810)
- Add an option to export paper peer reviewing data to JSON (#4767, #4818)
- Passwords are now checked against a list of breached passwords ("Have I Been Pwned") in a secure and anonymous way that does not disclose any data. If a user logs in with an insecure password, they are forced to change it before they can continue using Indico (#4817)
- Failed login attempts now trigger rate limiting to prevent brute-force attacks (#1550, #4817)
- Allow filtering the "Participant Roles" page by users who have not registered for the event (#4763, #4822)
- iCalendar exports now include contact data, event logo URL and, when exporting sessions/contributions, the UID of the related event. Also, only non-empty fields are exported. (#4785, #4586, #4587, #4791, #4820)
- Allow adding groups/roles as "authorized abstract submitters" (#4834)
- Direct links to (sub-)contributions in meetings using the URLs usually meant for conferences now redirect to the meeting view page (#4847)
- Use a more compact setup QR code for the mobile *Indico check-in* app; the latest version of the app is now required. (#4844)

- Contribution duration fields now use a widget similar to the time picker that makes selecting durations easier. (#2462, #4873)
- Add new meeting themes that show sequential numbers instead of start times for contributions (#4899)
- Remove the very outdated "Compact style" theme (it's still available via the themes_legacy plugin) (#4900, #4899)
- Support cloning surveys when cloning events (#2045, #4910)
- Show external contribution references in conferences (#4928, #4933)
- Allow changing the rating scale in abstract/paper reviewing even after reviewing started (#4942)
- Allow blacklisting email addresses for user registrations (#4644, #4946)

Bugfixes

- Take registrations of users who are only members of a custom event role into account on the "Participant Roles" page (#4822)
- Fail gracefully during registration import when two rows have different emails that belong to the same user (#4823)
- Restore the ability to see who's inheriting access from a parent object (#4833)
- Fix misleading message when cancelling a booking that already started and has past occurrences that won't be cancelled (#4719, #4861)
- Correctly count line breaks in length-limited abstracts (#4918)
- Fix error when trying to access subcontributions while event is in draft mode
- Update the user link in registrations when merging two users (#4936)
- Fix error when exporting a conference timetable PDF with the option "Print abstract content of all contributions" and one of the abstracts is too big to fit in a page (#4881, #4955)
- Emails sent via the Editing module are now logged to the event log (#4960)
- Fix error when importing event notes from another event while the target event already has a deleted note (#4959)

Internal Changes

- Require Python 3.9 older Python versions (especially Python 2.7) are no longer supported
- confid has been changed to event_id and the corresponding URL path segments now enforce numeric data (and thus pass the id as a number instead of string)
- CACHE BACKEND has been removed; Indico now always uses Redis for caching
- The integration with flower (celery monitoring tool) has been removed as it was not widely used, did not provide much benefit, and it is no longer compatible with the latest Celery version
- session.user now returns the user related to the current request, regardless of whether it's coming from OAuth, a signed url or the actual session (#4803)
- Add a new check_password_secure signal that can be used to implement additional password security checks (#4817)
- Add an endpoint to let external applications stage the creation of an event with some data to be pre-filled when the user then opens the link returned by that endpoint (#4628, thanks @adl1995)

8.1. Changelog 353

8.1.6 Version 2.3.6

Unreleased

Bugfixes

• None so far :)

8.1.7 Version 2.3.5

Released on May 11, 2021

Security fixes

• Fix XSS vulnerabilities in the category picker (via category titles), location widget (via room and venue names defined by an Indico administrator) and the "Indico Weeks View" timetable theme (via contribution/break titles defined by an event organizer). As neither of these objects can be created by untrusted users (on a properly configured instance) we consider the severity of this vulnerability "minor" (#4897)

Internationalization

• New translation: Polish

• New translation: Mongolian

Improvements

• Add an option to not disclose the names of editors and commenters to submitters in the Paper Editing module (#4829, #4865)

Bugfixes

- Do not show soft-deleted long-lasting events in category calendar (#4824)
- Do not show management-related links in editing hybrid view unless the user has access to them (#4830)
- Fix error when assigning paper reviewer roles with notifications enabled and one of the reviewing types disabled (#4838)
- Fix viewing timetable entries if you cannot access the event but a specific session inside it (#4857)
- Fix viewing contributions if you cannot access the event but have explicit access to the contribution (#4860)
- Hide registration menu item if you cannot access the event and registrations are not exempt from event access checks (#4860)
- Fix inadvertently deleting a file uploaded during the "make changes" Editing action, resulting in the revision sometimes still referencing the file even though it has been deleted from storage (#4866)
- Fix sorting abstracts by date (#4877)

Internal Changes

• Add before_notification_send signal (#4874, thanks @omegak)

8.1.8 Version 2.3.4

Released on March 11, 2021

Security fixes

- Fix some open redirects which could help making harmful URLs look more trustworthy by linking to Indico and having it redirect the user to a malicious site (#4814, #4815)
- The BASE_URL is now always enforced and requests whose Host header does not match are rejected. This prevents malicious actors from tricking Indico into sending e.g. a password reset link to a user that points to a host controlled by the attacker instead of the actual Indico host (#4815)

Note: If the webserver is already configured to enforce a canonical host name and redirects or rejects such requests, this cannot be exploited. Additionally, exploiting this problem requires user interaction: they would need to click on a password reset link which they never requested, and which points to a domain that does not match the one where Indico is running.

Improvements

- Fail more gracefully is a user has an invalid locale set and fall back to the default locale or English in case the
 default locale is invalid as well
- Log an error if the configured default locale does not exist
- Add ID-1 page size for badge printing (#4774, thanks @omegak)
- Allow managers to specify a reason when rejecting registrants and add a new placeholder for the rejection reason when emailing registrants (#4769, thanks @vasantvohra)

Bugfixes

- Fix the "Videoconference Rooms" page in conference events when there are any VC rooms attached but the corresponding plugin is no longer installed
- Fix deleting events which have a videoconference room attached which has its VC plugin no longer installed
- Do not auto-redirect to SSO when an MS office user agent is detected (#4720, #4731)
- Allow Editing team to view editables of unpublished contributions (#4811, #4812)

Internal Changes

- Also trigger the ical-export metadata signal when exporting events for a whole category
- Add primary_email_changed signal (#4802, thanks @openprojects)

8.1. Changelog 355

8.1.9 Version 2.3.3

Released on January 25, 2021

Security fixes

• JSON locale data for invalid locales is no longer cached on disk; instead a 404 error is triggered. This avoids creating small files in the cache folder for each invalid locale that is requested. (#4766)

Internationalization

• New translation: Ukrainian

Improvements

- Add a new "Until approved" option for a registration form's "Modification allowed" setting (#4740, thanks @vasantvohra)
- Show last login time in dashboard (#4735, thanks @vasantvohra)
- Allow Markdown in the "Message for complete registrations" option of a registration form (#4741)
- Improve video conference linking dropdown for contributions/sessions (hide unscheduled, show start time) (#4753)
- Show timetable filter button in conferences with a meeting-like timetable

Bugfixes

- Fix error when converting malformed HTML links to LaTeX
- Hide inactive contribution/abstract fields in submit/edit forms (#4755)
- Fix adding registrants to a session ACL

Internal Changes

- Videoconference plugins may now display a custom message for the prompt when deleting a videoconference room (#4733)
- Videoconference plugins may now override the behavior when cloning an event with attached videoconference rooms (#4732)

8.1.10 Version 2.3.2

Released on November 30, 2020

Improvements

- Disable title field by default in new registration forms (#4688, #4692)
- Add gender-neutral "Mx" title (#4688, #4692)
- Add contributions placeholder for emails (#4716, thanks @bpedersen2)
- Show program codes in contribution list (#4713)
- Display the target URL of link materials if the user can access them (#2599, #4718)
- Show the revision number for all revisions in the Editing timeline (#4708)

Bugfixes

- Only consider actual speakers in the "has registered speakers" contribution list filter (#4712, thanks @bpedersen2)
- Correctly filter events in "Sync with your calendar" links (this fix only applies to newly generated links) (#4717)
- Correctly grant access to attachments inside public sessions/contribs even if the event is more restricted (#4721)
- Fix missing filename pattern check when suggesting files from Paper Peer Reviewing to submit for Editing (#4715)
- Fix filename pattern check in Editing when a filename contains dots (#4715)
- Require explicit admin override (or being whitelisted) to override blockings (#4706)
- Clone custom abstract/contribution fields when cloning abstract settings (#4724, thanks @bpedersen2)
- Fix error when rescheduling a survey that already has submissions (#4730)

8.1.11 Version 2.3.1

Released on October 27, 2020

Security fixes

• Fix potential data leakage between OAuth-authenticated and unauthenticated HTTP API requests for the same resource (#4663)

Note: Due to OAuth access to the HTTP API having been broken until this version, we do not believe this was actually exploitable on any Indico instance. In addition, only Indico administrators can create OAuth applications, so regardless of the bug there is no risk for any instance which does not have OAuth applications with the read:legacy_api scope.

Improvements

- Generate material packages in a background task to avoid timeouts or using excessive amounts of disk space in case of people submitting several times (#4630)
- Add new EXPERIMENTAL_EDITING_SERVICE setting to enable extending an event's Editing workflow through an OpenReferee server (#4659)

Bugfixes

- · Only show the warning about draft mode in a conference if it actually has any contributions or timetable entries
- Do not show incorrect modification deadline in abstract management area if no such deadline has been set (#4650)
- Fix layout problem when minutes contain overly large embedded images (#4653, #4654)
- Prevent pending registrations from being marked as checked-in (#4646, thanks @omegak)
- Fix OAuth access to HTTP API (#4663)
- Fix ICS export of events with draft timetable and contribution detail level (#4666)
- Fix paper revision submission field being displayed for judges/reviewers (#4667)
- Fix managers not being able to submit paper revisions on behalf of the user (#4667)

Internal Changes

- Add registration_form_wtform_created signal and send form data in registration_created and registration_updated signals (#4642, thanks @omegak)
- Add logged in signal

8.1.12 Version 2.3

Released on September 14, 2020

Note: We also published a blog post summarizing the most relevant changes for end users.

Major Features

- Add category roles, which are similar to local groups but within the scope of a category and its subcategories. They can be used for assigning permissions in any of these categories and events within such categories.
- Events marked as "Invisible" are now hidden from the category's event list for everyone except managers (#4419, thanks @openprojects)
- Introduce profile picture, which is for now only visible on the user dashboard (#4431, thanks @omegak)
- Registrants can now be added to event ACLs. This can be used to easily restrict parts of an event to registered
 participants. If registration is open and a registration form is in the ACL, people will be able to access the
 registration form even if they would otherwise not have access to the event itself. It is also possible to restrict
 individual event materials and custom page/link menu items to registered participants. (#4477, #4528, #4505,
 #4507)
- Add a new Editing module for papers, slides and posters which provides a workflow for having a team review
 the layout/formatting of such proceedings and then publish the final version on the page of the corresponding
 contribution. The Editing module can also be connected to an external microservice to handle more advanced
 workflows beyond what is supported natively by Indico.

Internationalization

• New translation: Chinese (Simplified)

Improvements

- Sort survey list by title (#3802)
- Hide "External IDs" field if none are defined (#3857)
- Add LaTeX source export for book of abstracts (#4035, thanks @bpedersen2)
- Tracks can now be categorized in track groups (#4052)
- Program codes for sessions, session blocks, contributions and subcontributions can now be auto-generated (#4026)
- Add draft mode for the contribution list of conference events which hides pages like the contribution list and timetable until the event organizers publish the contribution list. (#4095)
- Add ICS export for information in the user dashboard (#4057)
- · Allow data syncing with multipass providers which do not support refreshing identity information
- Show more verbose error when email validation fails during event registration (#4177)
- Add link to external map in room details view (#4146)
- Allow up to 9 digits (instead of 6) before the decimal point in registration fees
- Add button to booking details modal to copy direct link (#4230)
- Do not require new room manager approval when simply shortening a booking (#4214)
- Make root category description/title customizable using the normal category settings form (#4231)
- Added new LOCAL_GROUPS setting that can be used to fully disable local groups (#4260)
- Log bulk event category changes in the event log (#4241)
- Add CLI commands to block and unblock users (#3845)
- Show warning when trying to merge a blocked user (#3845)
- Allow importing event role members from a CSV file (#4301)
- Allow optional comment when accepting a pre-booking (#4086)
- Log event restores in event log (#4309)
- Warn about cancelling/rejecting whole recurring bookings instead of just specific occurrences (#4092)
- Add "quick cancel" link to room booking reminder emails (#4324)
- Add visual information and filtering options for participants' registration status to the contribution list (#4318)
- Add warning when accepting a pre-booking in case there are concurrent bookings (#4129)
- Add event logging to opening/closing registration forms, approval/rejection of registrations, and updates to event layout (#4360, thanks @giusedb & @omegak)
- Add category navigation dialog on category display page (#4282, thanks @omegak)
- Add UI for admins to block/unblock users (#3243)
- Show labels indicating whether a user is an admin, blocked or soft-deleted (#4363)
- Add map URL to events, allowing also to override room map URL (#4402, thanks @omegak)

- Use custom time picker for time input fields taking into account the 12h/24h format of the user's locale (#4399)
- Refactor the room edit modal to a tabbed layout and improve error handling (#4408)
- Preserve non-ascii characters in file names (#4465)
- Allow resetting moderation state from registration management view (#4498, thanks @omegak)
- Allow filtering event log by related entries (#4503, thanks @omegak)
- Do not automatically show the browser's print dialog in a meeting's print view (#4513)
- Add "Add myself" button to person list fields (e.g. for abstract authors) (#4411, thanks @jgrigera)
- Subcontributions can now be managed from the meeting display view (#2679, #4520)
- Add CfA setting to control whether authors can edit abstracts (#3431)
- Add CfA setting to control whether only speakers or also authors should get submission rights once the abstract gets accepted (#3431)
- Show the Indico version in the footer again (#4558)
- Event managers can upload a custom Book of Abstract PDF (#3039, #4577)
- Display each news item on a separate page instead of together with all the other news items (#4587)
- Allow registrants to withdraw their application (#2715, #4585, thanks @brabemi & @omegak)
- Allow choosing a default badge in categories (#4574, thanks @omegak)
- Display event labels on the user's dashboard as well (#4592)
- Event modules can now be imported from another event (#4518, thanks @meluru)
- Event modules can now be imported from another event (#4518, #4533, thanks @meluru)
- Include the event keywords in the event API data (#4598, #4599, thanks @chernals)
- Allow registrants to check details for non-active registrations and prevent them from registering twice with the same registration form (#4594, #4595, thanks @omegak)
- Add a new CUSTOM_LANGUAGES setting to indico.conf to override the name/territory of a language or disable it altogether (#4620)

Bugfixes

- Hide Book of Abstracts menu item if LaTeX is disabled and no custom Book of Abstracts has been uploaded
- Use a more consistent order when cloning the timetable (#4227)
- Do not show unrelated rooms with similar names when booking room from an event (#4089)
- Stop icons from overlapping in the datetime widget (#4342)
- Fix alignment of materials in events (#4344)
- Fix misleading wording in protection info message (#4410)
- Allow guests to access public notes (#4436)
- Allow width of weekly event overview table to adjust to window size (#4429)
- Fix whitespace before punctuation in Book of Abstracts (#4604)
- Fix empty entries in corresponding authors (#4604)
- · Actually prevent users from editing registrations if modification is disabled

• Handle LaTeX images with broken redirects (#4623, thanks @bcc)

Internal Changes

- Make React and SemanticUI usable everywhere (#3955)
- Add before-regform template hook (#4171, thanks @giusedb)
- Add registrations kwarg to the event.designer.print_badge_template signal (#4297, thanks @giusedb)
- Add registration_form_edited signal (#4421, thanks @omegak)
- Make PyIntEnum freeze enums in Alembic revisions (#4425, thanks @omegak)
- Add before-registration-summary template hook (#4495, thanks @omegak)
- Add extra-registration-actions template hook (#4500, thanks @omegak)
- Add event-management-after-title template hook (#4504, thanks @meluru)
- Save registration id in related event log entries (#4503, thanks @omegak)
- Add before-registration-actions template hook (#4524, thanks @omegak)
- Add LinkedDate and DateRange form field validators (#4535, thanks @omegak)
- Add extra-regform-settings template hook (#4553, thanks @meluru)
- Add filter_selectable_badges signal (#4557, thanks @omegak)
- Add user ID in every log record logged in a request context (#4570, thanks @omegak)
- Add extra-registration-settings template hook (#4596, thanks @meluru)
- Allow extending polymorphic models in plugins (#4608, thanks @omegak)
- Wrap registration form AngularJS directive in jinja block for more easily overriding arguments passed to the app in plugins (#4624, thanks @omegak)

8.1.13 Version 2.2.9

Unreleased

Bugfixes

- Fix error when building LaTeX PDFs if the temporary event logo path contained an underscore (#4521)
- Disallow storing invalid timezones in user settings and reduce risk of sending wrong timezone names when people automatically translate their UI (#4529)

8.1.14 Version 2.2.8

Released on April 08, 2020

Security fixes

- Update bleach to fix a regular expression denial of service vulnerability
- Update Pillow to fix a buffer overflow vulnerability

8.1.15 Version 2.2.7

Released on March 23, 2020

Improvements

• Add support for event labels to indicate e.g. postponed or cancelled events (#3199)

Bugfixes

- · Allow slashes in roomName export API
- Show names instead of IDs of local groups in ACLs (#3700)

8.1.16 Version 2.2.6

Released on February 27, 2020

Bugfixes

- Fix some email fields (error report contact, agreement cc address) being required even though they should be optional
- Avoid browsers prefilling stored passwords in togglable password fields such as the event access key
- Make sure that tickets are not attached to emails sent to registrants for whom tickets are blocked (#4242)
- Fix event access key prompt not showing when accessing an attachment link (#4255)
- Include event title in OpenGraph metadata (#4288)
- Fix error when viewing abstract with reviews that have no scores
- Update requests and pin idna to avoid installing incompatible dependency versions (#4327)

8.1.17 Version 2.2.5

Released on December 06, 2019

Improvements

- Sort posters in timetable PDF export by board number (#4147, thanks @bpedersen2)
- Use lat/lng field order instead of lng/lat when editing rooms (#4150, thanks @bpedersen2)
- Add additional fields to the contribution csv/xlsx export (authors and board number) (#4148, thanks @bpeder-sen2)

Bugfixes

- Update the Pillow library to 6.2.1. This fixes an issue where some malformed images could result in high memory usage or slow processing.
- Truncate long speaker names in the timetable instead of hiding them (#4110)
- Fix an issue causing errors when using translations for languages with no plural forms (like Chinese).
- Fix creating rooms without touching the longitude/latitude fields (#4115)
- Fix error in HTTP API when Basic auth headers are present (#4123, thanks @uxmaster)
- Fix incorrect font size in some room booking dropdowns (#4156)
- Add missing email validation in some places (#4158)
- Reject requests containing NUL bytes in the POST data (#4159)
- Fix truncated timetable PDF when using "Print each session on a separate page" in an event where the last timetable entry of the day is a top-level contribution or break (#4134, thanks @bpedersen2)
- Only show public contribution fields in PDF exports (#4165)
- Allow single arrival/departure date in accommodation field (#4164, thanks @bpedersen2)

8.1.18 Version 2.2.4

Released on October 16, 2019

Security fixes

• Fix more places where LaTeX input was not correctly sanitized. While the biggest security impact (reading local files) has already been mitigated when fixing the initial vulnerability in the previous release, it is still strongly recommended to update.

8.1.19 Version 2.2.3

Released on October 08, 2019

Security fixes

- Strip @, +, and = from the beginning of strings when exporting CSV files to avoid security issues when opening the CSV file in Excel
- Use 027 instead of 000 umask when temporarily changing it to get the current umask
- Fix LaTeX sanitization to prevent malicious users from running unsafe LaTeX commands through specially crafted abstracts or contribution descriptions, which could lead to the disclosure of local file contents

Improvements

- Improve room booking interface on small-screen devices (#4013)
- Add user preference for room owners/manager to select if they want to receive notification emails for their rooms (#4096, #4098)

- Show family name field first in user search dialog (#4099)
- Make date headers clickable in room booking calendar (#4099)
- Show times in room booking log entries (#4099)
- Support disabling server-side LaTeX altogether and hide anything that requires it (such as contribution PDF export or the Book of Abstracts). LaTeX is now disabled by default, unless the XELATEX_PATH is explicitly set in indico.conf.

Bugfixes

- Remove 30s timeout from dropzone file uploads
- Fix bug affecting room booking from an event in another timezone (#4072)
- Fix error when commenting on papers (#4081)
- Fix performance issue in conferences with public registration count and a high amount of registrations
- Fix confirmation prompt when disabling conference menu customizations (#4085)
- Fix incorrect days shown as weekend in room booking for some locales
- Fix ACL entries referencing event roles from the old event when cloning an event with event roles in the ACL. Run indico maint fix-event-role-acls after updating to fix any affected ACLs (#4090)
- Fix validation issues in coordinates fields when editing rooms (#4103)

8.1.20 Version 2.2.2

Released on August 23, 2019

Bugfixes

• Remove dependency on pyatom, which has vanished from PyPI

8.1.21 Version 2.2.1

Released on August 16, 2019

Improvements

- Make list of event room bookings sortable (#4022)
- Log when a booking is split during editing (#4031)
- Improve "Book" button in multi-day events (#4021)

Bugfixes

- Add missing slash to the template_prefix of the designer module
- Always use HH:MM time format in book-from-event link
- Fix timetable theme when set to "indico weeks view" before 2.2 (#4027)

- Avoid flickering of booking edit details tooltip
- Fix outdated browser check on iOS (#4033)

8.1.22 Version 2.2

Released on August 06, 2019

Major Changes

- Drop support for Internet Explorer 11 and other outdated or discontinued browser versions. Indico shows a warning message when accessed using such a browser. The latest list of supported browsers can be found in the README on GitHub, but generally Indico now supports the last two versions of each major browser (determined at release time), plus the current Firefox ESR.
- Rewrite the room booking frontend to be more straightforward and user-friendly. Check our blog for details.

Improvements

- Rework the event log viewer to be more responsive and not freeze the whole browser when there are thousands
 of log entries
- Add shortcut to next upcoming event in a category (#3388)
- Make registration period display less confusing (#3359)
- Add edit button to custom conference pages (#3284)
- Support markdown in survey questions (#3366)
- Improve event list in case of long event titles (#3607, thanks @nop33)
- Include event page title in the page's <title> (#3285, thanks @bpedersen2)
- Add option to include subcategories in upcoming events (#3449)
- Allow event managers to override the name format used in the event (#2455)
- Add option to not clone venue/room of an event
- Show territory/country next to the language name (#3968)
- Add more sorting options to book of abstracts (#3429, thanks @bpedersen2)
- Add more formatting options to book of abstracts (#3335, thanks @bpedersen2)
- Improve message when the call for abstracts is scheduled to open but hasn't started yet
- Make link color handling for LaTeX pdfs configurable (#3283, thanks @bpedersen2)
- Preserve displayed order in contribution exports that do not apply any specific sorting (#4005)
- Add author list button to list of papers (#3978)

Bugfixes

- Fix incorrect order of session blocks inside timetable (#2999)
- Add missing email validation to contribution CSV import (#3568, thanks @Kush22)
- Do not show border after last item in badge designer toolbar (#3607, thanks @nop33)

- Correctly align centered footer links (#3599, thanks @nop33)
- Fix top/right alignment of session bar in event display view (#3599, thanks @nop33)
- Fix error when trying to create a user with a mixed-case email address in the admin area
- Fix event import if a user in the exported data has multiple email addresses and they match different users
- Fix paper reviewers getting notifications even if their type of reviewing has been disabled (#3852)
- Correctly handle merging users in the paper reviewing module (#3895)
- Show correct number of registrations in management area (#3935)
- Fix sorting book of abstracts by board number (#3429, thanks @bpedersen2)
- Enforce survey submission limit (#3256)
- Do not show "Mark as paid" button and checkout link while a transaction is pending (#3361, thanks @driehle)
- Fix 404 error on custom conference pages that do not have any ascii chars in the title (#3998)
- Do not show pending registrants in public participant lists (#4017)

Internal Changes

- Use webpack to build static assets
- · Add React+Redux for new frontend modules
- Enable modern ES201x features

8.1.23 Version 2.1.11

Released on October 16, 2019

Security fixes

• Fix more places where LaTeX input was not correctly sanitized. While the biggest security impact (reading local files) has already been mitigated when fixing the initial vulnerability in the previous release, it is still strongly recommended to update.

8.1.24 Version 2.1.10

Released on October 08, 2019

Security fixes

- Strip @, +, and = from the beginning of strings when exporting CSV files to avoid security issues when opening
 the CSV file in Excel
- Use 027 instead of 000 umask when temporarily changing it to get the current umask
- Fix LaTeX sanitization to prevent malicious users from running unsafe LaTeX commands through specially crafted abstracts or contribution descriptions, which could lead to the disclosure of local file contents

8.1.25 Version 2.1.9

Released on August 26, 2019

Bugfixes

- Fix bug in calendar view, due to timezones (#3903)
- Remove dependency on pyatom, which has vanished from PyPI (#4045)

8.1.26 Version 2.1.8

Released on March 12, 2019

Improvements

• Add A6 to page size options (#3793)

Bugfixes

• Fix celery/redis dependency issue (#3809)

8.1.27 Version 2.1.7

Released on January 24, 2019

Improvements

- Add setting for the default contribution duration of an event (#3446)
- Add option to copy abstract attachments to contributions when accepting them (#3732)

Bugfixes

• Really fix the oauthlib conflict (was still breaking in some cases)

8.1.28 Version 2.1.6

Released on January 15, 2019

Bugfixes

- Allow adding external users as speakers/chairpersons (#3562)
- Allow adding external users to event ACLs (#3562)
- Pin requests-oauthlib version to avoid dependency conflict

8.1.29 Version 2.1.5

Released on December 06, 2018

Improvements

• Render the reviewing state of papers in the same way as abstracts (#3665)

Bugfixes

- Use correct speaker name when exporting contributions to spreadsheets
- Use friendly IDs in abstract attachment package folder names
- Fix typo in material package subcontribution folder names
- Fix check on whether registering for an event is possible
- Show static text while editing registrations (#3682)

8.1.30 Version 2.1.4

Released on September 25, 2018

Bugfixes

- Let managers download tickets for registrants even if all public ticket downloads are disabled (#3493)
- Do not count deleted registrations when printing tickets from the badge designer page
- Hide "Save answers" in surveys while not logged in
- Fix importing event archives containing registrations with attachments
- Fix display issue in participants table after editing data (#3511)
- Fix errors when booking rooms via API

8.1.31 Version 2.1.3

Released on August 09, 2018

Security fixes

- Only return timetable entries for the current session when updating a session through the timetable (#3474, thanks @glunardi for reporting)
- Prevent session managers/coordinators from modifying certain timetable entries or scheduling contributions not assigned to their session
- Restrict access to timetable entry details to users who are authorized to see them

Improvements

- Improve survey result display (#3486)
- Improve email validation for registrations (#3471)

Bugfixes

- Point to correct day in "edit session timetable" link (#3419)
- Fix error when exporting abstracts with review questions to JSON
- · Point the timetable to correct day in the session details
- Fix massive performance issue on the material package page in big events
- Fix error when using the checkin app to mark someone as checked in (#3473, thanks @femtobit)
- Fix error when a session coordinator tries changing the color of a break using the color picker in the balloon's tooltip

Internal Changes

• Add some new signals and template hooks to the registration module

8.1.32 Version 2.1.2

Released on June 11, 2018

Improvements

• Show email address for non-anonymous survey submissions (#3258)

Bugfixes

- Show question description in survey results (#3383)
- Allow paper managers to submit paper revisions
- Fix error when not providing a URL for privacy policy or terms
- Use consistent order for privacy/terms links in the footer
- · Fix cloning of locked events

8.1.33 Version 2.1.1

Released on May 31, 2018

Improvements

- Add a privacy policy page linked from the footer (#1415)
- Terms & Conditions can now link to an external URL
- Show a warning to all admins if Celery is not running or outdated
- Add registration ID placeholder for badges (#3370, thanks @bpedersen2)

Bugfixes

- Fix alignment issue in the "Indico Weeks View" timetable theme (#3367)
- Reset visibility when cloning an event to a different category (#3372)

8.1.34 Version 2.1

Released on May 16, 2018

Major Features

- Add event roles, which are similar to local groups but within the scope of an event. They can be used both for
 assigning permissions within the event and also for quickly seeing which user has which role (such as "Program
 Committee" in the event
- Add new *Participant Roles* (previously called *Roles*) which now shows each person's custom event roles and whether they have registered for the event in addition to the default roles (speaker, chairperson, etc.)
- Add visibility options to custom abstract/contribution fields so they can be restricted to be editable/visible only
 for event managers or authors/submitters instad of anyone who can see the abstract/contribution
- Provide new interface to import registations/contributions from a CSV file (#3144)
- Rework how access/permissions are managed. Now all access and management privileges can be assigned from a single place on the protection management page.

Improvements

- Allow specifying a default session for a track which will then be used by default when accepting an abstract in that track (#3069)
- Allow marking contribution types as private so they cannot be selected by users submitting an abstract (#3138)
- Add support for boolean (yes/no) and freetext questions in abstract reviewing (#3175)
- Support event cloning with monthly recurrence on the last day of the month (#1580)
- Add support for custom session types (#3189)
- Move poster session flag from session settings to session type settings
- Add contribution cloning within an event (#3207)
- Add option to include the event description in reminder emails (#3157, thanks @bpedersen2)
- Pin default themes to the top for event managers (#3166)

- Add user setting whether to show future events or not by default in a category. Also keep the per-category status in the session (#3233, thanks @bpedersen2)
- Keep page titles in sync with conference menu item titles (#3236)
- Add option to hide an attachment folder in the display areas of an event (#3181, thanks @bpedersen2)
- Improve flower redirect URI generation (#3187, thanks @bpedersen2)
- When blocking a user account, the user will be forcefully logged out in addition to being prevented from logging in
- Show track-related columns in abstract list only if there are tracks defined for the event (#2813)
- Show warning box to inform that reviewer roles do not apply when an event has no tracks (#2919)
- Allow specifying min/max length for registration form text fields (#3193, thanks @bpedersen2)
- Add settings to configure the scale of 'rating' questions in paper reviewing
- Show a nicer error message when entering an excessively high base registration fee (#3260)
- Use proper British English for person titles (#3279)
- Add event keywords in meta tags (#3262, thanks @bpedersen2)
- Improve sorting by date fields in the registrant list
- Use the user's preferred name format in more places
- Add "back to conference" link when viewing a conference timetable using a meeting theme (#3297, thanks @bpedersen2)
- Allow definition lists in places where Markdown or HTML is accepted (#3325)
- Include event date/time in registration emails (#3337)
- Allow div/span/pre with classes when writing raw HTML in CKEditor (#3332, thanks @bpedersen2)
- Sort abstract authors/speakers by last name (#3340)
- Improve machine-readable metadata for events and categories (#3287, thanks @bpedersen2)

Bugfixes

- Fix selecting a person's title in a different language than English
- Fix display issue in "now happening" (#3278)
- Fix error when displaying the value of an accommodation field in the registrant list and someone has the "no accommodation" option selected (#3272, thanks @bpedersen2)
- · Use the 'Reviewing' realm when logging actions from the abstract/paper reviewing modules
- Fix error when printing badges/posters with empty static text fields (#3290)
- Fix error when generating a PDF timetable including contribution abstracts (#3289)
- Do not require management access to a category to select a badge template from it as a backside.
- Fix breadcrumb metadata (#3321, thanks @bpedersen2)
- Fix error when accessing certain registration pages without an active registration
- Use event timezone when displaying event log entries (#3354)
- Correctly render most markdown elements when generating a programme PDF (#3351)

• Do not send any emails when trying to approve/reject a registration that is not pending (#3358)

Internal Changes

- Rename *Roles* in ACL entries to *Permissions*. This especially affects the can_manage method whose role argument has been renamed to permission (#3057)
- Add new registration_checkin_updated signal that can be used by plugins to perform an action when the checkin state of a registration changes (#3161, thanks @bpedersen2)
- Add new signals that allow plugins to run custom code at the various stages of the RH execution and replace/modify the final response (#3227)
- Add support for building plugin wheels with date/commit-suffixed version numbers (#3232, thanks @driehle)

8.1.35 Version 2.0.3

Released on March 15, 2018

Security fixes

 Do not show contribution information (metadata including title, speakers and a partial description) in the contribution list unless the user has access to a contribution

Improvements

• Show more suitable message when a service request is auto-accepted (#3264)

8.1.36 Version 2.0.2

Released on March 07, 2018

Security fixes

· Update bleach to fix an XSS vulnerability

Improvements

• Warn when editing a speaker/author would result in duplicate emails

Bugfixes

- Take 'center' orientation of badge/poster backgrounds into account (#3238, thanks @bpedersen2)
- Fail nicely when trying to register a local account with an already-used email confirmation link (#3250)

8.1.37 Version 2.0.1

Released on February 6, 2018

Improvements

- Add support for admin-only designer placeholders. Such placeholders can be provided by custom plugins and only be used in the designer by Indico admins (#3210)
- Sort contribution types alphabetically
- Add folding indicators when printing foldable badges (#3216)

Bugfixes

- Fix LaTeX rendering issue when consecutive lines starting with [were present (#3203)
- Do not allow managers to retrieve tickets for registrants for whom ticket access is blocked by a plugin (#3208)
- Log a warning instead of an exception if the Indico version check fails (#3209)
- Wrap long lines in event log entries instead of truncating them
- Properly show message about empty agenda in reminders that have "Include agenda" enabled but an empty timetable
- Fix overly long contribution type names pushing edit/delete buttons outside the visible area (#3215)
- · Only apply plugin-imposed ticket download restrictions for tickets, not for normal badges.
- Fix switching between badge sides in IE11 (#3214)
- Do not show poster templates as possible backsides for badges
- Convert alpha-channel transparency to white in PDF backgrounds
- Make number inputs big enough to show 5 digits in chrome
- Sort chairperson list on lecture pages
- Remove whitespace before commas in speaker lists
- Hide author UI for subcontribution speakers (#3222)

8.1.38 Version 2.0

Released on January 12, 2018

Improvements

- Add author_type and is_speaker fields for persons in the JSON abstract export
- Add legacy redirect for conferenceTimeTable.py

Bugfixes

- Fix unicode error when searching external users from the "Search Users" dialog
- · Fix missing event management menu/layout when creating a material package from the event management area
- Fix error when viewing a contribution with co-authors
- Fix sorting of registration form items not working anymore after moving/disabling some items
- Fix error after updating from 2.0rc1 if there are cached Mako templates
- Fix error when retrieving an image referenced in an abstract fails
- Fix rendering of time pickers in recent Firefox versions (#3194)
- Fix error when trying to use the html serializer with the timetable API
- Fix error when receiving invalid payment events that should be ignored
- Fix last occurrence not being created when cloning events (#3192)
- Fix multiple links in the same line being replaced with the first one when converting abstracts/contributions to PDF (#2816)
- Fix PDF generation when there are links with & in the URL
- Fix incorrect spacing in abstract author/speaker lists (#3205)

8.1.39 Version 2.0rc2

Released on December 8, 2017

Improvements

• Allow changing the reloader used by the dev server (#3150)

Bugfixes

- Do not show borders above/below the message in registration emails unless both the header and body blocks are used (#3151)
- Roll-back the database transaction when an error occurs.
- Fix rendering of the LaTeX error box (#3163)
- Fix "N/A" being displayed in a survey result if 0 is entered in a number field
- Fix "N/A" not being displayed in a survey result if nothing is selected in a multi-choice select field
- Fix error when using target_* placeholders in abstract notification emails for actions other than "Merged" (#3171)
- Show full track title in tooltips on abstract pages
- · Show correct review indicators when a reviewer still has to review an abstract in a different track
- Fix unicode error when searching external users in an LDAP backend

Internal Changes

• Remove SCSS_DEBUG_INFO config option.

8.1.40 Version 2.0rc1

Released on November 10, 2017

Improvements

- Hide category field in event creation dialog if there are no subcategories (#3112)
- Remove length limit from registration form field captions (#3119)
- Use semicolons instead of commas as separator when exporting list values (such as multi-select registration form fields) to CSV or Excel (#3060)
- Use custom site title in page title (#3018)
- Allow manually entering dates in datetime fields (#3136)
- Send emails through a celery task. This ensures users do not get an error if the mail server is temporarily unavailable. Sending an email is also retried for a while in case of failure. In case of a persistent failure the email is dumped to the temp directory and can be re-sent manually using the new indico resend_email command (#3121)
- Reject requests containing NUL bytes in the query string (#3142)

Bugfixes

- Do not intercept HTTP exceptions containing a custom response. When raising such exceptions we do not want the default handling but rather send the custom response to the client.
- Do not apply margin for empty root category sidebar (#3116, thanks @nop33)
- Fix alignment of info-grid items on main conference page (#3126)
- Properly align the label of the attachment folder title field
- Fix some rare unicode errors during exception handling/logging
- Clarify messages in session block rescheduling dialogs (#3080)
- Fix event header bar in IE11 (#3135)
- Fix footer on login page (#3132)
- Use correct module name for abstract notification emails in the event log
- Remove linebreaks from email subject in paper review notifications
- Fix extra padding in the CFA roles dialog (#3129)
- Do not show an extra day in timetable management if an event begins before a DST change
- · Disable caching when retrieving the list of unscheduled contributions
- Process placeholders in the subject when emailing registrants
- Fix Shibboleth login with non-ascii names (#3143)

Internal Changes

 Add new is_ticket_blocked signal that can be used by plugins to disable ticket downloads for a registration.

8.1.41 Version 2.0a1

Released on October 20, 2017

This is the first release of the 2.0 series, which is an almost complete rewrite of Indico based on a modern software stack and PostgreSQL.

CHAPTER 9

Indices and tables

- genindex
- modindex

CHAPTER 10

Contact

10.1 Contact

10.1.1 Website

The official website of Indico is getindico.io, there you can find useful information related to the project.

10.1.2 IRC

We use IRC as our main means of real-time communication with the development community. Get in touch through the official #indico channel on Libera.Chat (irc.libera.chat). It is also accessible through Matrix.

10.1.3 Forum

For more elaborate questions and discussions we encourage you to use our discussion forum.

10.1.4 Issue tracker

We use GitHub issues for specific bug reports and feature requests. Support enquiries are better suited for the IRC channel or the forums.

10.1.5 Twitter

Indico has an official Twitter account, @getindico which is occasionally used for announcements.

```
indico.modules.designer.models.templates,
indico.core.oauth, 304
                                         indico.modules.designer.pdf, 318
indico.core.oauth.models.applications,
                                         indico.modules.designer.placeholders,
indico.core.oauth.models.tokens, 307
                                         indico.modules.designer.util, 318
indico.core.plugins,77
                                         indico.modules.events, 121
indico.modules.attachments, 281
indico.modules.attachments.models.attachments.omodules.events.abstracts,144
                                         indico.modules.events.abstracts.fields,
indico.modules.attachments.models.folders,
                                          indico.modules.events.abstracts.models.abstracts,
indico.modules.attachments.models.principals,
                                         indico.modules.events.abstracts.models.call_for_abs
indico.modules.attachments.operations,
                                         indico.modules.events.abstracts.models.comments,
indico.modules.attachments.preview, 288
                                         indico.modules.events.abstracts.models.email_logs,
indico.modules.attachments.util, 287
indico.modules.auth, 302
                                         indico.modules.events.abstracts.models.email templa
indico.modules.auth.models.identities,
indico.modules.auth.models.registration_iedicgtmodules.events.abstracts.models.fields,
                                         indico.modules.events.abstracts.models.files,
indico.modules.auth.util, 303
indico.modules.categories, 263
                                         indico.modules.events.abstracts.models.persons,
indico.modules.categories.fields, 333
indico.modules.categories.models.categories,
                                         indico.modules.events.abstracts.models.related_trace
indico.modules.categories.models.principals,
                                         indico.modules.events.abstracts.models.review_quest
indico.modules.categories.models.settings,
                                         indico.modules.events.abstracts.models.review_ration
indico.modules.categories.operations,
                                         indico.modules.events.abstracts.models.reviews,
indico.modules.categories.serialize, 269
                                         indico.modules.events.abstracts.operations,
indico.modules.categories.settings, 270
indico.modules.categories.util, 268
                                         indico.modules.events.abstracts.placeholders,
indico.modules.designer, 316
indico.modules.designer.models.images,
                                         indico.modules.events.abstracts.settings,
       316
                                                164
```

```
indico.modules.events.abstracts.util,
                                         indico.modules.events.models.series, 135
       157
                                         indico.modules.events.models.settings,
indico.modules.events.agreements, 166
indico.modules.events.agreements.models.agdeemembdules.events.models.static_list_links,
                                                136
indico.modules.events.agreements.placehoiderso.modules.events.notes, 190
                                         indico.modules.events.notes.models.notes.
indico.modules.events.agreements.util,
                                         indico.modules.events.notes.util, 192
indico.modules.events.contributions, 168 indico.modules.events.operations, 137
indico.modules.events.contributions.fieldadico.modules.events.papers, 192
                                         indico.modules.events.papers.fields, 331
indico.modules.events.contributions.modelsdcontmodutconeyents.papers.models.call_for_papers
                                                193
indico.modules.events.contributions.modelsdfceldsdules.events.papers.models.comments,
indico.modules.events.contributions.modelsdpeosmodules.events.papers.models.competences,
                                                195
indico.modules.events.contributions.modelsdpronmodales.events.papers.models.files,
                                                195
indico.modules.events.contributions.modelsdredemedutes.events.papers.models.papers,
indico.modules.events.contributions.modelsdsubcmndrlbstevents.papers.models.review_question
indico.modules.events.contributions.modelsdf.ppemodules.events.papers.models.review_ratings,
indico.modules.events.contributions.operandons, modules.events.papers.models.reviews,
indico.modules.events.contributions.utilindico.modules.events.papers.models.revisions,
indico.modules.events.features, 181
                                         indico.modules.events.papers.models.templates,
indico.modules.events.features.util, 181
indico.modules.events.fields, 327
                                         indico.modules.events.papers.models.user_contribut:
indico.modules.events.layout, 182
indico.modules.events.layout.models.imagendico.modules.events.papers.operations,
indico.modules.events.layout.models.menuindico.modules.events.papers.util, 204
                                         indico.modules.events.payment, 207
indico.modules.events.layout.util, 185
                                         indico.modules.events.payment.models.transactions,
indico.modules.events.logs, 186
                                                207
indico.modules.events.logs.models.entrieindico.modules.events.payment.plugins,
indico.modules.events.logs.renderers,
                                         indico.modules.events.payment.util, 208
                                         indico.modules.events.persons, 210
indico.modules.events.logs.util, 188
                                         indico.modules.events.persons.operations,
indico.modules.events.models.events, 121
indico.modules.events.models.persons,
                                         indico.modules.events.persons.placeholders,
                                                210
       127
indico.modules.events.models.principals, indico.modules.events.registration, 212
                                         indico.modules.events.registration.models.form_fie
indico.modules.events.models.references,
                                         indico.modules.events.registration.models.forms,
indico.modules.events.models.reviews.
       133
                                         indico.modules.events.registration.models.invitatio
```

```
221
                                         indico.modules.events.timetable, 253
indico.modules.events.registration.modelsndtemsmodules.events.timetable.models.breaks,
                                                253
indico.modules.events.registration.modelsndegosmodulessevents.timetable.models.entries,
                                                254
indico.modules.events.registration.placehoddeosmoduleatevents.timetable.operations,
indico.modules.events.registration.placehoddeosmodglesratens,timetable.reschedule,
indico.modules.events.registration.settimmgdico.modules.events.timetable.util,
indico.modules.events.registration.statsindico.modules.events.tracks, 259
                                         indico.modules.events.tracks.models.principals,
indico.modules.events.registration.util,
                                                260
                                         indico.modules.events.tracks.models.tracks,
indico.modules.events.reminders, 234
indico.modules.events.reminders.models.reminders.pdules.events.tracks.operations,
                                                261
indico.modules.events.reminders.util,
                                         indico.modules.events.util, 139
      236
                                         indico.modules.groups, 310
indico.modules.events.requests, 236
                                         indico.modules.groups.core, 310
indico.modules.events.requests.base, 237 indico.modules.groups.models.groups, 310
indico.modules.events.requests.models.reqnests.modules.groups.util, 311
                                         indico.modules.networks.325
indico.modules.events.requests.util, 237
                                         indico.modules.networks.fields, 333
indico.modules.events.sessions.239
                                         indico.modules.networks.models.networks,
indico.modules.events.sessions.fields,
                                         indico.modules.networks.util, 326
indico.modules.events.sessions.models.blondsco.modules.news, 326
                                         indico.modules.news.models.news, 326
indico.modules.events.sessions.models.peradmsp.modules.news.util, 327
                                         indico.modules.rb, 289
indico.modules.events.sessions.models.prindipalmodules.rb.models.blocked_rooms,
                                                294
indico.modules.events.sessions.models.sessadons.modules.rb.models.blocking principals.
indico.modules.events.sessions.operationsndico.modules.rb.models.blockings, 293
                                         indico.modules.rb.models.equipment, 295
indico.modules.events.sessions.util, 244 indico.modules.rb.models.locations, 295
indico.modules.events.settings, 204
                                         indico.modules.rb.models.map_areas, 296
indico.modules.events.static, 261
                                         indico.modules.rb.models.photos, 296
indico.modules.events.static.models.statindico.modules.rb.models.reservation_edit_logs,
                                                299
indico.modules.events.static.util, 263
                                         indico.modules.rb.models.reservation_occurrences,
indico.modules.events.surveys, 245
indico.modules.events.surveys.models.itemsdico.modules.rb.models.reservations,
indico.modules.events.surveys.models.submindsconmodules.rb.models.room_attributes,
indico.modules.events.surveys.models.survedsco.modules.rb.models.room_bookable_hours,
                                                293
indico.modules.events.surveys.operationsindico.modules.rb.models.room_nonbookable_periods,
indico.modules.events.surveys.util, 252 indico.modules.rb.models.rooms, 289
```

```
indico.modules.rb.models.util, 301
indico.modules.rb.statistics, 302
indico.modules.rb.util, 301
indico.modules.search.base, 70
indico.modules.search.result_schemas,
indico.modules.users.271
indico.modules.users.ext, 280
indico.modules.users.models.affiliations,
indico.modules.users.models.emails, 276
indico.modules.users.models.favorites,
indico.modules.users.models.settings,
       277
indico.modules.users.models.suggestions,
indico.modules.users.models.users, 271
indico.modules.users.operations, 278
indico.modules.users.util, 279
indico.modules.vc, 311
indico.modules.vc.exceptions, 316
indico.modules.vc.models.vc_rooms, 312
indico.modules.vc.plugins, 314
indico.modules.vc.util, 314
indico.web.forms.fields, 334
```

```
Α
                                                                                                                                                                    attribute), 165
                                                                                                                              (in- abstract_updated
                                                                                                                                                                                                                     (in
                                                                                                                                                                                                                                           module
                                                                                                                                                                                                                                                                            in-
absolute_download_url
                       dico.modules.attachments.models.attachments.Attachment dico.core.signals.event), 84
                                                                                                                                            AbstractAction
                                                                                                                                                                                                                  (class
                                                                                                                                                                                                                                                    in
                                                                                                                                                                                                                                                                            in-
                       attribute), 281
                                                                                                                                                                    dico.modules.events.abstracts.models.reviews),
Abstract
                                                        (class
                                                                                                in
                                                                                                                                in-
                        dico.modules.events.abstracts.models.abstracts),
                                                                                                                                            AbstractComment
                                                                                                                                                                                                                    (class
                                                                                                                                                                                                                                                     in
                                                                                                                                                                                                                                                                            in-
attribute), 149
abstract(indico.modules.events.abstracts.models.email_logs.tabafractemmanltbyEinibility (class in in-
                                                                                                                                                                    dico.modules.events.abstracts.models.reviews),
                       attribute), 150
{\tt abstract} (\textit{indico.modules.events.abstracts.models.files.AbstractFile}^{155}
                                                                                                                                                                                                                                  (class
                                                                                                                                            AbstractEmailLogEntry
                        attribute), 152
\verb|abstract| (indico.modules.events.abstracts.models.reviews. Abstract \#ico.modules.events.abstracts.models.email\_logs), \\
                       attribute), 155
                                                                                                                                                                                                                                  (class
                                                                                                                                                                                                                                                           in
                                                                                                                                                                                                                                                                            in-
abstract (indico.modules.events.contributions.models.contributions.contributions
                                                                                                                                                                    dico.modules.events.abstracts.models.email_templates),
                       attribute), 169
                                                                                                                                                                    150
abstract_created
                                                                        (in
                                                                                               module
                                                                                                                                in-
                                                                                                                                            AbstractField
                                                                                                                                                                                                               (class
                                                                                                                                                                                                                                                  in
                                                                                                                                                                                                                                                                            in-
                       dico.core.signals.event), 84
                                                                                                                                                                    dico.modules.events.abstracts.fields), 328
abstract deleted
                                                                                               module
                                                                                                                                in-
                                                                                                                                            AbstractFieldValue
                                                                                                                                                                                                                           (class
                                                                                                                                                                                                                                                                            in-
                       dico.core.signals.event), 84
\verb|abstract_id| (indico.modules.events.abstracts.models.comments. A bispectual experts.abstracts.models.fields), |
                                                                                                                                                                    151
                        attribute), 149
                                                                                                                                                                                                                                                                            in-
abstract id (indico.modules.events.abstracts.models.email togs.AbstractEmailLogElfts)
                                                                                                                                                                    dico.modules.events.abstracts.models.files),
                       attribute), 150
abstract id(indico.modules.events.abstracts.models.fields.AbstractFieldValue
                                                                                                                                            AbstractIDPlaceholder
                                                                                                                                                                                                                                  (class
                                                                                                                                                                                                                                                                            in-
                        attribute), 151
\verb|abstract_id| (indico.modules.events.abstracts.models.files. Abstract \cite{thme} modules.events.abstracts.placeholders), |
                        attribute), 152
\verb|abstract_id| (indico.modules.events.abstracts.models.persons.AbstractPersonLing{\texttt{N}} \\ \texttt{URLP1} \\ \texttt{aceholder} \\ (class\ indico.modules.events.abstracts.models.persons.AbstractPersonLing{\texttt{N}} \\ \texttt{URLP1} \\ \texttt{aceholder} \\ (class\ indico.modules.events.abstracts.models.persons.Abstracts.models.persons.Abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.
                                                                                                                                                                    indico.modules.events.abstracts.placeholders),
                        attribute), 152
abstract_id(indico.modules.events.abstracts.models.reviews.AbstractReview
                                                                                                                                            AbstractPersonLink
                                                                                                                                                                                                                                                        in
                                                                                                                                                                                                                           (class
                       attribute), 155
\verb|abstract_id| (indico.modules.events.contributions.models.contributions.models.contributions.models.events.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.models.contributions.contributions.contributions.models.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributio
                        attribute), 169
                                                                                                                                            AbstractPersonLinkListField (class in in-
abstract_state_changed
                                                                                      (in
                                                                                                      module
                                                                                                                                                                    dico.modules.events.abstracts.fields), 328
                       dico.core.signals.event), 84
                                                                                                                                            AbstractPublicState
                                                                                                                                                                                                                              (class
abstract_title
                                                                                                                              (in-
                                                                                                                                                                    dico.modules.events.abstracts.models.abstracts),
                       dico.modules.events.abstracts.settings.BOASortField
```

```
AbstractReview
                                                         (class
                                                                                    in
                                                                                                                                      attribute), 299
                   dico.modules.events.abstracts.models.reviews),
                                                                                                                   accepted_condition_types
                                                                                                                                                                                                                           (in-
                                                                                                                                      dico.modules.events.abstracts.fields.EmailRuleListField
AbstractReviewingState
                                                                                            in
                                                                                                                                      attribute), 330
                                                                        (class
                                                                                                        in-
                  dico.modules.events.abstracts.models.abstracts), accepted_contrib_type
                                                                                                                                      dico.modules.events.abstracts.models.abstracts.Abstract
                                                                                                                                      attribute), 144
AbstractReviewQuestion
                                                                        (class
                                                                                            in
                                                                                                         in-
                   dico.modules.events.abstracts.models.review_questions)pted_contrib_type_id
                                                                                                                                       dico.modules.events.abstracts.models.abstracts.Abstract
                   153
AbstractReviewRating
                                                                    (class
                                                                                          in
                                                                                                         in-
                                                                                                                                       attribute), 144
                   dico.modules.events.abstracts.models.review_ratings);epted_on_behalf
                                                                                                                                                                                                                           (in-
                                                                                                                                       dico.modules.events.agreements.models.agreements.AgreementSt
AbstractSessionPlaceholder (class in in-
                                                                                                                                       attribute), 167
                  dico.modules.events.abstracts.placeholders),
                                                                                                                   accepted_revision
                                                                                                                                                                                                                           (in-
                                                                                                                                      dico.modules.events.papers.models.papers.Paper
AbstractState
                                                       (class
                                                                                                         in-
                                                                                                                                       attribute), 196
                   dico.modules.events.abstracts.models.abstracts), accepted_track
                                                                                                                                      dico.modules.events.abstracts.models.abstracts.Abstract
AbstractTitlePlaceholder
                                                                            (class
                                                                                              in
                                                                                                                                      attribute), 144
                                                                                                        in-
                   dico.modules.events.abstracts.placeholders),
                                                                                                                   accepted track id
                                                                                                                                      dico.modules.events.abstracts.models.abstracts.Abstract
AbstractTrackPlaceholder
                                                                                                                                      attribute), 144
                                                                            (class
                                                                                                        in-
                   dico.modules.events.abstracts.placeholders),
                                                                                                                   access_key (indico.modules.attachments.models.attachments.Attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachme
                                                                                                                                      attribute), 281
AbstractURLPlaceholder
                                                                        (class
                                                                                            in
                                                                                                         in-
                                                                                                                   access_key (indico.modules.attachments.models.folders.AttachmentFold
                   dico.modules.events.abstracts.placeholders),
                                                                                                                                      attribute), 283
                                                                                                                   access_key (indico.modules.categories.models.categories.Category
accept (indico.modules.events.abstracts.models.reviews.AbstractActionribute), 263
                                                                                                                   access_key (indico.modules.events.contributions.models.contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Con
                  attribute), 154
accept (indico.modules.events.papers.models.reviews.PaperAction attribute), 169
                   attribute), 198
                                                                                                                   access_key (indico.modules.events.models.events.Event
accept () (indico.modules.events.agreements.models.agreements.Agriteibate), 122
                   method), 166
                                                                                                                   access_key (indico.modules.events.sessions.models.sessions.Session
accept () (indico.modules.events.requests.base.RequestDefinitionBasteribute), 240
                   class method), 237
                                                                                                                   access key (indico.modules.events.tracks.models.tracks.Track
accept () (indico.modules.rb.models.reservations.Reservation
                                                                                                                                      attribute), 259
                  method), 297
                                                                                                                   access key (indico.modules.rb.models.rooms.Room
accepted (indico.modules.events.abstracts.models.abstracts.AbstracttPhiblineState9
                   attribute), 147
                                                                                                                   access\_token(indico.core.oauth.models.tokens.TokenModelBase)
accepted (indico.modules.events.abstracts.models.abstracts.AbstractsStitute), 309
                  attribute), 147
                                                                                                                   access token hash
                                                                                                                                                                                                                           (in-
accepted (indico.modules.events.agreements.models.agreements.Aghamante.oauth.models.tokens.OAuthToken
                   attribute), 166
                                                                                                                                      attribute), 308
accepted (indico.modules.events.agreements.models.agreements.AgtechentShateh
                                                                                                                                                                                                                           (in-
                   attribute), 167
                                                                                                                                      dico.core.oauth.models.tokens.TokenModelBase
accepted (indico.modules.events.papers.models.revisions.PaperRevisitoibState); 309
                   attribute), 202
                                                                                                                   AccessControlListField
                                                                                                                                                                                           (class
                                                                                                                                                                                                               in
                                                                                                                                                                                                                            in-
accepted (indico.modules.events.registration.models.invitations.InviliationsBlafterms.fields), 344
                   attribute), 221
                                                                                                                   AccommodationStats
                                                                                                                                                                                    (class
                                                                                                                                                                                                                            in-
accepted (indico.modules.events.requests.models.requests.RequestStitte.modules.events.registration.stats), 233
                                                                                                                   \verb"acl" (indico.modules.attachments.models.attachments.Attachment
                   attribute), 237
accepted (indico.modules.rb.models.blocked_rooms.BlockedRoomSutthabute), 281
                   attribute), 294
                                                                                                                   \verb"acl" (indico.modules.attachments.models.folders.AttachmentFolder
accepted (indico.modules.rb.models.reservations.ReservationState attribute), 283
```

386 Index

advanced (indico.modules.events.abstracts.placeholders.TargetSubmitter

```
acl_entries (indico.modules.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.atta
                                                                                                                                                                                                                            (in-
                                                                                                                                       dico.modules.events.papers.models.files.PaperFile
                   attribute), 281
acl_entries (indico.modules.attachments.models.folders.Attachmentsliblde), 195
                                                                                                                    add_file_date_column
                   attribute), 283
                                                                                                                                                                                                                            (in-
acl_entries (indico.modules.categories.models.categories.Categories.categories.events.papers.models.templates.PaperTemplate
                                                                                                                                       attribute), 202
                  attribute), 264
acl entries (indico.modules.events.contributions.models.acontributions)
                   attribute), 169
                                                                                                                                        dico.modules.events.registration.models.registrations.Registration
acl_entries(indico.modules.events.models.events.Event
                                                                                                                                        attribute), 215
                   attribute), 122
                                                                                                                    add_file_date_column
                                                                                                                                                                                                                            (in-
\verb|acl_entries| (indico.modules.events.sessions.models.sessions.Sessiboo.modules.events.static.models.static.StaticSite | (indico.modules.events.sessions.models.sessions.models.sessions.sessiboo.modules.events.static.models.staticSite | (indico.modules.events.sessions.models.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessi
                                                                                                                                       attribute), 262
                   attribute), 240
module
                                                                                                                                                                                                                              in-
                                                                                                                                                                              (in
                                                                                                                                        dico.core.signals.core), 83
                  attribute), 259
acl_entries (indico.modules.rb.models.rooms.Room add_principal()
                                                                                                                                                                                                                            (in-
                  attribute), 289
                                                                                                                                       dico.modules.events.settings.EventACLProxy
acl_event_settings
                                                                                                                                       method), 142, 204
                                                                                                        (in-
                   dico.core.plugins.IndicoPlugin
                                                                                            attribute),
                                                                                                                    add_survey_question()
                                                                                                                                                                                                       module
                                                                                                                                                                                         (in
                                                                                                                                       dico.modules.events.surveys.operations),
acl_proxy_class
                                                                                                        (in-
                  dico.modules.events.settings.EventSettingsProxy add_survey_section()
                                                                                                                                                                                       (in
                                                                                                                                                                                                      module
                                                                                                                                                                                                                              in-
                   attribute), 143, 205
                                                                                                                                       dico.modules.events.surveys.operations),
acl_settings (indico.core.plugins.IndicoPlugin at-
                                                                                                                                        252
                   tribute), 77
                                                                                                                    add_survey_text()
                                                                                                                                                                                  (in
                                                                                                                                                                                                   module
                                                                                                                                                                                                                              in-
acl_settings(indico.modules.vc.plugins.VCPluginMixin
                                                                                                                                        dico.modules.events.surveys.operations),
                   attribute), 314
active(indico.modules.search.base.IndicoSearchProvideradd_url_rule()
                                                                                                                                                                                                                            (in-
                                                                                                                                       dico.core.plugins.IndicoPluginBlueprintSetupState
                  attribute), 70
                                                                                                                                       method), 79
active_and_answered
                                                                                                        (in-
                  dico.modules.events.surveys.models.surveys.SurvexStatetional_info
                                                                                                                                                                                                                            (in-
                  attribute), 247
                                                                                                                                       dico.modules.events.models.events.Event
active_and_clean
                                                                                                        (in-
                                                                                                                                        attribute), 122
                   dico.modules.events.surveys.models.surveys.Surveys.Strateess (indico.modules.events.models.persons.EventPerson
                  attribute), 247
                                                                                                                                       attribute), 128
active fields
                                                                                                        (in- address (indico.modules.events.models.persons.PersonLinkBase
                  dico.modules.events.registration.models.forms.RegistrationFattnibute), 129
                  attribute), 219
                                                                                                                    address (indico.modules.events.registration.models.items.PersonalDataT
active_fields
                                                                                                        (in-
                                                                                                                                       attribute), 223
                   dico.modules.events.registration.models.items.RegistrationEchimaSicationodules.search.result_schemas.LocationResultSchema
                  attribute), 225
                                                                                                                                       attribute), 73
active_registrations
                                                                                                        (in- address (indico.modules.users.models.users.User at-
                   dico.modules.events.registration.models.forms.RegistrationFormute), 272
                   attribute), 219
                                                                                                                    adjust_payment_form_data()
                                                                                                                                                                                                                            (in-
                                                                                                                                       dico.modules.events.payment.plugins.PaymentPluginMixin
add_abstract_files()
                                                                   (in
                                                                                  module
                                                                                                          in-
                  dico.modules.events.abstracts.operations),
                                                                                                                                       method), 209
                                                                                                                    advanced (indico.modules.events.abstracts.placeholders.AbstractURLPla
                   156
add_attachment_link()
                                                                     (in
                                                                                   module
                                                                                                          in-
                                                                                                                                       attribute), 160
                                                                                                                    advanced (indico.modules.events.abstracts.placeholders.ContributionUR
                   dico.modules.attachments.operations), 287
add_edit_log()
                                                                                                        (in-
                                                                                                                                       attribute), 164
                  dico.modules.rb.models.reservations.Reservation advanced (indico.modules.events.abstracts.placeholders.SubmitterFirstN
                  method), 297
                                                                                                                                       attribute), 161
                                                                                                        (in- advanced (indico.modules.events.abstracts.placeholders.SubmitterLastNe
add file date column
                  dico. modules. events. abstracts. models. files. Abstract File
                                                                                                                                       attribute), 162
```

Index 387

attribute), 152

allow_attachments

```
attribute), 163
                                                                                                                                                                       dico.modules.events.abstracts.models.call_for_abstracts.CallFora
advanced (indico.modules.events.abstracts.placeholders.TargetSubmittibluts);NamePlaceholder
                                                                                                                                              allow category roles
advanced (indico.modules.events.abstracts.placeholders.TargetSubmittenNowhdPlateholderb.models.principals.AttachmentFolderPr
                       attribute), 163
                                                                                                                                                                       attribute), 286
advanced (indico.modules.events.registration.placeholders.legistrationseEicklPlaceholder
                                                                                                                                                                                                                                                                               (in-
                                                                                                                                                                       dico.modules.attachments.models.principals.AttachmentPrincipals
                       attribute), 230
affiliation (indico.modules.events.models.persons.EventPerson attribute), 286
                        attribute), 128
                                                                                                                                               allow_category_roles
                                                                                                                                                                                                                                                                               (in-
{\tt affiliation} \ (indico. modules. events. models. Persons. PersonLink {\it Babico.} modules. categories. models. Principals. {\it Category Principal afficient} is a constant of the principal affiliation of the principal
                       attribute), 129
                                                                                                                                                                      attribute), 267
affiliation (indico.modules.events.registration.models.inVitationsaRegistrationthylitation
                                                                                                                                                                       dico.modules.events.contributions.models.principals.Contribution
                       attribute), 222
affiliation (indico.modules.events.registration.models.items.Persatrabliteta,TN) for
                       attribute), 223
                                                                                                                                               allow_category_roles
                                                                                                                                                                                                                                                                               (in-
{\tt affiliation} \ (indico. modules. search. result\_schemas. Person Schem {\it d} ico. modules. events. models. principals. Event Principals affiliation (indico. modules. events. models. events. models. events. models. events. even
                        attribute), 73
                                                                                                                                                                       attribute), 130
affiliation(indico.modules.users.models.users.User allow_category_roles
                                                                                                                                                                                                                                                                               (in-
                       attribute), 272
                                                                                                                                                                       dico.modules.events.models.settings.EventSettingPrincipal
after_commit (in module indico.core.signals.core),
                                                                                                                                                                       attribute), 136
                                                                                                                                              allow_category_roles
                                                                                                                                                                                                                                                                               (in-
after_process (in module indico.core.signals.core),
                                                                                                                                                                      dico.modules.events.sessions.models.principals.SessionPrincipal
                                                                                                                                                                       attribute), 243
                        83
after_registration_form_clone (in module
                                                                                                                                              allow_category_roles
                       indico.core.signals.event), 84
                                                                                                                                                                       dico.modules.events.tracks.models.principals.TrackPrincipal
AggregationSchema
                                                                             (class
                                                                                                                                                                      attribute), 260
                                                                                                                                  in-
                       dico.modules.search.result_schemas), 68
                                                                                                                                               allow_comments
                                                                                                                                                                                                                                                                               (in-
                                                                                                                                                                       dico.modules.events.abstracts.models.call_for_abstracts.CallFora
                                                          (class
                                                                                                                                  in-
Agreement
                                                                                                   in
                                                                                                                                                                       attribute), 148
                       dico.modules.events.agreements.models.agreements),
                                                                                                                                               allow_contributors_in_comments
                                                                                                                                                                                                                                                                               (in-
AgreementLinkPlaceholder
                                                                                             (class
                                                                                                                                                                       dico.modules.events.abstracts.models.call_for_abstracts.CallFora
                       dico.modules.events.agreements.placeholders),
                                                                                                                                                                       attribute), 148
                        168
                                                                                                                                               allow_convener_judgment
                                                                                                                                                                       dico.modules.events.abstracts.models.call_for_abstracts.CallFora
AgreementState
                                                                      (class
                                                                                                         in
                                                                                                                                  in-
                       dico.modules.events.agreements.models.agreements),
                                                                                                                                                                       attribute), 148
                                                                                                                                              allow_convener_track_change
                                                                                                                                                                                                                                                                               (in-
all (indico.modules.events.abstracts.settings.SubmissionRightsType dico.modules.events.abstracts.models.call_for_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstracts.CallFor_abstrac
                       attribute), 165
                                                                                                                                                                       attribute), 148
all_emails (indico.modules.users.models.users.User allow_editing
                                                                                                                                                                                                                                                                               (in-
                                                                                                                                                                       dico.modules.events.abstracts.models.call_for_abstracts.CallFora
                       attribute), 272
all files (indico.modules.attachments.models.attachments.Attachments.Attachments), 148
                       attribute), 281
                                                                                                                                               allow_emails (indico.modules.events.contributions.models.principals.C
all_notes (indico.modules.events.models.events.Event
                                                                                                                                                                       attribute), 176
                       attribute), 122
                                                                                                                                              allow_emails (indico.modules.events.models.principals.EventPrincipal
all_recipients
                                                                                                                                (in-
                                                                                                                                                                      attribute), 130
                       dico.modules.events.reminders.models.reminders.Eventserinderls (indico.modules.events.sessions.models.principals.Sessio
                       attribute), 234
                                                                                                                                                                      attribute), 243
allocate_friendly_ids()
                                                                                                                                (in- allow_event_roles
                       dico.modules.events.contributions.models.contributions.Conditibutiondules.attachments.models.principals.AttachmentFolderPr
                       class method), 169
                                                                                                                                                                       attribute), 286
allow_access_key
                                                                                                                                              allow_event_roles
                                                                                                                                                                                                                                                                               (in-
                       dico.modules.events.models.events.Event
                                                                                                                                                                       dico.modules.attachments.models.principals.AttachmentPrincipal
                       attribute), 122
                                                                                                                                                                       attribute), 286
```

388 Index

(in- allow_event_roles

(in-

dico.modules.events.contributions.models.	princij	pals.Contr	il ohicio.nPodubip.a lvents.se:	ssions.mode	ls.sessi	ions.Session
attribute), 176			attribute), 240			
allow_event_roles	(in-	allowe	d (indico.modules.rb.mo	odels.blocki	ngs.Blo	ocking
dico.modules.events.models.principals.Eve	entPrir	ncipal	attribute), 293			
attribute), 130		allowe	d_always			(in-
allow_event_roles	(in-		dico.modules.events.reg	gistration.m	odels.fc	orms.ModificationMod
dico.modules.events.models.settings.Event	Setting	gPrincipal	attribute), 219			
attribute), 136		ALLOWE	D_CONTENT_TYPE			(in-
allow_event_roles	(in-		dico.modules.attachme	nts.preview.	<i>ImageF</i>	Previewer
dico.modules.events.sessions.models.princ	ipals.S	SessionPri	na tp abute), 288			
attribute), 243		ALLOWE	D_CONTENT_TYPE			(in-
allow_event_roles	(in-		dico.modules.attachme	nts.preview.	Markdo	ownPreviewer
dico.modules.events.tracks.models.princip	als.Tro	ackPrincip	adıttribute), 288	•		
attribute), 260		_	D_CONTENT_TYPE			(in-
allow_location_inheritance	(in-		dico.modules.attachme	nts.preview.	PDFPr	reviewer
dico.modules.events.models.events.Event			attribute), 288	1		
attribute), 122		ALLOWE	D_CONTENT_TYPE			(in-
allow_networks	(in-		dico.modules.attachme	nts.preview.	Previev	,
dico.modules.categories.models.principals		orvPrinci		r		
attribute), 267		-	D_CONTENT_TYPE			(in-
allow_networks	(in-		dico.modules.attachme	nts.preview.	TextPre	`
dico.modules.events.models.principals.Eve				nis.previen.	10,001 70	
attribute), 130	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	_	d_link_types			(in-
allow_no_access_contact	(in-		dico.modules.attachme	nts models i	folders	`
dico.modules.categories.models.categories			attribute), 284	nis.moucis.j	oiders.	maciment otaci
attribute), 264	.Cuie		d_link_types			(in-
allow_no_access_contact	(in-	allowe	dico.modules.events.no	tes models i	notes F	`
dico.modules.events.models.events.Event	(in-		attribute), 190	ies.modeis.i	wies.L	vennvoie
attribute), 122		2110110	d_link_types			(in-
allow_pkce_flow	(in-		dico.modules.rb.models	a wasamiatio	na Daga	`
				s.reservanoi	is.Nese	IVUIIOIILIIK
dico.core.oauth.models.applications.OAuth	аАрри		attribute), 299			(:
attribute), 304	<i>(:</i>	allowe	d_scopes		01	(in-
allow_registration_forms	(in-	1 .F	dico.core.oauth.models	.аррисапог	is.OAut	пАррисаноп
dico.modules.attachments.models.principa	us.Atta					()
attribute), 286		allowe	d_types_for_edit		1 1	(in-
allow_registration_forms	(in-		dico.modules.events.co	ntributions.	models.	.contributions.Contrib
dico.modules.attachments.models.principa			=			
		allowe	d_until_approved		116	(in-
allow_registration_forms	(in-		dico.modules.events.reg	gistration.m	odels.fc	orms.ModificationMod
dico.modules.events.contributions.models.	princij		_			
attribute), 176		allowe	d_until_payment			(in-
allow_registration_forms	(in-		dico.modules.events.reg	gistration.m	odels.fc	orms.ModificationMod
dico.modules.events.models.principals.Eve	entPrii	_	attribute), 219			
attribute), 130		AllowE		class	in	in-
allow_registration_forms	(in-		dico.modules.events.ab		-	
dico.modules.events.sessions.models.princ	ipals.S	Seanion/Prii		payment.mo	dels.tra	ansactions.PaymentTro
attribute), 243			attribute), 207			
allow_relationship_preloading	(in-	anchor	(indico.modules.news	s.models.ne	ws.New	vsItem
dico.modules.categories.models.categories	.Categ	gory	attribute), 326			
attribute), 264		announ	cement (indico.module	es.events.ab	stracts.	models.call_for_abstro
allow_relationship_preloading	(in-		attribute), 148			
dico.modules.events.contributions.models.	contri	butions.Co	etributio n indico.module	es.events.pa	pers.mc	odels.call_for_papers.
attribute), 169			attribute), 193			
allow_relationship_preloading	(in-	anonym	ous (indico.modules.ev	ents.surveys	.model	s.surveys.Survey

Index 389

```
attribute), 246
                                                                                                                                                                            attribute), 263
answer_data(indico.modules.events.surveys.models.subintisting:\mathbb{MENNity_Answer_ID_COLUMN}
                                                                                                                                                                                                                                                                                         (in-
                                                                                                                                                                            dico.modules.events.contributions.models.contributions.Contribu
answers (indico.modules.events.surveys.models.submissions.SurveySutbribista) y 1 69
                                                                                                                                                    ATTACHMENT_FOLDER_ID_COLUMN
                        attribute), 251
                                                                                                                                                                                                                                                                                         (in-
api key (indico.modules.users.models.users.User at-
                                                                                                                                                                            dico.modules.events.contributions.models.subcontributions.SubCo
                                                                                                                                                                            attribute), 177
                        tribute), 272
app_created (in module indico.core.signals.core), 83
                                                                                                                                                   ATTACHMENT_FOLDER_ID_COLUMN
                                                                                                                                                                                                                                                                                         (in-
app_user_link
                                                                                                                                                                             dico.modules.events.models.events.Event
                                                                                                                                    (in-
                        dico.core.oauth.models.tokens.OAuthToken
                                                                                                                                                                            attribute), 122
                        attribute), 308
                                                                                                                                                    ATTACHMENT_FOLDER_ID_COLUMN
                                                                                                                                                                                                                                                                                         (in-
app_user_link_id
                                                                                                                                                                            dico.modules.events.sessions.models.sessions.Session
                                                                                                                                    (in-
                        dico.core.oauth.models.tokens.OAuthToken
                                                                                                                                                                             attribute), 240
                        attribute), 308
                                                                                                                                                    attachment_id
                                                                                                                                                                                                                                                                                         (in-
application (indico.core.oauth.models.applications.OAuthApplications.bisachilioskattachments.models.attachments.AttachmentFile
                                                                                                                                                                            attribute), 282
application (indico.core.oauth.models.tokens.OAuthTokætatachment_id
                                                                                                                                                                                                                                                                                         (in-
                        attribute), 308
                                                                                                                                                                            dico.modules.attachments.models.principals.AttachmentPrincipal
application_id
                                                                                                                                    (in-
                                                                                                                                                                            attribute), 286
                        dico.core.oauth.models.applications.OAuthApplicationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLibrationsLib
                        attribute), 307
                                                                                                                                                                            dico.modules.search.result\_schemas.AttachmentResultSchema
approve() (indico.modules.rb.models.blocked_rooms.BlockedRoomattribute), 72
                                                                                                                                                   ATTACHMENT_STORAGE (built-in variable), 55
                        method), 294
as_principal(indico.modules.groups.core.GroupProxyattachment_type
                                                                                                                                                                                                                                                                                         (in-
                                                                                                                                                                            dico.modules.search.result\_schemas.AttachmentResultSchema
                        attribute), 311
as_principal(indico.modules.users.models.users.User
                                                                                                                                                                            attribute), 72
                        attribute), 272
                                                                                                                                                    attachment_updated
                                                                                                                                                                                                                                     (in
                                                                                                                                                                                                                                                          module
                                                                                                                                                                                                                                                                                           in-
assignees (indico.modules.events.papers.models.call_for_papers.ChikkFooPenignals.attachments), 82
                                                                                                                                                   AttachmentFile
                        attribute), 193
                                                                                                                                                                                                                             (class
                                                                                                                                                                                                                                                                in
                                                                                                                                                                                                                                                                                           in-
attach_ical (indico.modules.events.registration.models.forms.RegliscrationalFibersnattachments.models.attachments),
                         attribute), 219
attach_ical (indico.modules.events.reminders.models.rentinders.fixentsfeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffeetiffe
                                                                                                                                                                                                                                  (class
                                                                                                                                                                                                                                                                   in
                                                                                                                                                                                                                                                                                           in-
                        attribute), 234
                                                                                                                                                                            dico.modules.attachments.models.folders),
Attachment
                                                               (class
                                                                                                       in
                                                                                                                                      in-
                        dico.modules.attachments.models.attachments), AttachmentFolderPrincipal (class in
                                                                                                                                                                            dico.modules.attachments.models.principals),
attachment (indico.modules.events.agreements.models.agreements2% § reement
                        attribute), 166
                                                                                                                                                   AttachmentPrincipal
                                                                                                                                                                                                                                         (class
                                                                                                                                                                                                                                                                                           in-
attachment (indico.modules.search.base.SearchTarget
                                                                                                                                                                             dico.modules.attachments.models.principals),
                                                                                                                                                                             286
                        attribute), 70
                                                                                                                                    (in- AttachmentResultSchema
attachment_access_override
                                                                                                                                                                                                                                                 (class
                                                                                                                                                                                                                                                                          in
                                                                                                                                                                                                                                                                                           in-
                        dico.modules.networks.models.networks.IPNetworkGroup dico.modules.search.result_schemas), 72
                                                                                                                                                    attachments (indico.modules.attachments.models.folders.AttachmentFo
                        attribute), 325
attachment_accessed
                                                                                   (in
                                                                                                       module
                                                                                                                                                                            attribute), 284
                                                                                                                                       in-
                        dico.core.signals.attachments), 82
                                                                                                                                                   AttachmentType
                                                                                                                                                                                                                             (class
                                                                                                                                                                                                                                                                 in
attachment_created
                                                                                                      module
                                                                                                                                                                             dico.modules.attachments.models.attachments),
                                                                                 (in
                                                                                                                                      in-
                        dico.core.signals.attachments), 82
                                                                                                                                                   attr (indico.modules.events.settings.EventSettingProperty
attachment_deleted
                                                                                (in
                                                                                                      module
                        dico.core.signals.attachments), 82
                                                                                                                                                                             attribute), 143, 205
attachment_filename
                                                                                                                                    (in-
                                                                                                                                                   attribute(indico.modules.rb.models.room_attributes.RoomAttributeAss
                        dico.modules.events.agreements.models.agreements.Agreemettribute), 292
                                                                                                                                                    attribute_id(indico.modules.rb.models.room_attributes.RoomAttributes.attributes.RoomAttributes.RoomAttributes.RoomAttributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attributes.attribu
                        attribute), 166
ATTACHMENT_FOLDER_ID_COLUMN
                                                                                                                                    (in-
                                                                                                                                                                            attribute), 292
```

390 Index

dico.modules.categories.models.categories.Categorytributes (indico.modules.rb.models.rooms.Room

 $\verb|body| (indico.modules.events.abstracts.models.email_logs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.AbstractEmailLogs.Abstr$

```
attribute), 289
                                                                                                                                                                                  base_price (indico.modules.events.registration.models.forms.Registration
AUTH_PROVIDERS (built-in variable), 48
                                                                                                                                                                                                                attribute), 219
author_type (indico.modules.events.abstracts.models.petrscores.AbstracetRemsbed.inbdules.events.registration.models.registrations.Reg
                                                                                                                                                                                                                attribute), 212
author_type (indico.modules.events.contributions.models.pessous.Contributions.models.pessous.contributions.models.pessous.contributions.models.pessous.contributions.models.pessous.contributions.models.pessous.contributions.models.pessous.contributions.models.pessous.contributions.models.pessous.contributions.models.pessous.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions
                             attribute), 174
                                                                                                                                                                                  before_check_registration_email (in mod-
author_type (indico.modules.events.contributions.models.persons.MaliGobietriboniecsiPardorekint), 84
                                                                                                                                                                                  before_notification_send (in module in-
                              attribute), 175
AUTHORS_SPEAKERS_DISPLAY_ORDER_ATTR (in-
                                                                                                                                                                                                                dico.core.signals.core), 83
                             dico.modules.events.abstracts.models.abstracts.Abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts
                             attribute), 144
AUTHORS_SPEAKERS_DISPLAY_ORDER_ATTR (in- belongs_to() (indico.modules.events.agreements.models.agreements.A
                             dico.modules.events.models.persons.AuthorsSpeakersMixin method), 166
                             attribute), 127
                                                                                                                                                                                  best_unit (indico.web.forms.fields.TimeDeltaField at-
AuthorsSpeakersMixin
                                                                                                                                                                                                                tribute), 340
                                                                                                          (class
                                                                                                                                                                   in-
                             dico.modules.events.models.persons), 127
                                                                                                                                                                                  billable_data
                                                                                                                                                                                                                                                                                                                                                   (in-
                                                                                                                                                                                                                dico.modules.events.registration.models.registrations.Registration
                                                                            (class
                                                                                                                                                                  in-
AuthorType
                                                                                                                             in
                                                                                                                                                                                                                attribute), 212
                             dico.modules.events.contributions.models.persons),
                                                                                                                                                                                  block (indico.modules.vc.models.vc_rooms.VCRoomLinkType
available_equipment
                                                                                                                                                                (in-
                                                                                                                                                                                                                attribute), 313
                             dico.modules.rb.models.rooms.Room attribute),
                                                                                                                                                                                  blocked_rooms
                                                                                                                                                                                                                                                                                                                                                   (in-
                                                                                                                                                                                                                dico.modules.rb.models.blockings.Blocking
                                                                                                                                                                                                                attribute), 293
avatar_bg_color
                                                                                                                                                                (in-
                             dico.modules.users.models.users.User
                                                                                                                                                                             blocked rooms
                                                                                                                                                                  at-
                             tribute), 272
                                                                                                                                                                                                                dico.modules.rb.models.rooms.Room attribute),
avatar_url (indico.modules.events.registration.models.registration)
                             attribute), 212
                                                                                                                                                                                   BlockedRoom
                                                                                                                                                                                                                                                                                                                                                     in-
                                                                                                                                                                                                                                                                  (class
avatar_url (indico.modules.users.models.users.User
                                                                                                                                                                                                                 dico.modules.rb.models.blocked_rooms),
                             attribute), 272
awaiting (indico.modules.events.abstracts.models.abstracts.Abstracts.PudnlesState
                                                                                                                                                                                                                                                                                 (class
                                                                                                                                                                                                                                                                                                                         in
                                                                                                                                                                                                                                                                                                                                                     in-
                             attribute), 147
                                                                                                                                                                                                                 dico.modules.rb.models.blocked_rooms),
                                                                                                                                                                                                                 294
В
                                                                                                                                                                                  Blocking
                                                                                                                                                                                                                                                         (class
                                                                                                                                                                                                                                                                                                                                                     in-
                                                                                                                                                                                                                dico.modules.rb.models.blockings), 293
background_color
                                                                                                                                                                (in-
                             dico.modules.events.sessions.models.sessions.Sessions. Sessions (indico.modules.rb.models.blocked\_rooms.BlockedRoom) and (indico.modules.rb.models.blocked\_rooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRooms.BlockedRoom
                                                                                                                                                                                                                attribute), 294
                             attribute), 240
                                                                                                                                                                             blocking_id(indico.modules.rb.models.blocking_principals.BlockingPi
background_color
                                                                                                                                                                (in-
                                                                                                                                                                                                                attribute), 295
                             dico. modules. events. time table. models. breaks. Break\\
                                                                                                                                                                                  BlockingPrincipal
                                                                                                                                                                                                                                                                                    (class
                                                                                                                                                                                                                                                                                                                                                     in-
                             attribute), 253
                                                                                                                                                                                                                dico.modules.rb.models.blocking_principals),
background_image
                                                                                                                                                                (in-
                             dico.modules.designer.models.templates.DesignerTemplate 294
                                                                                                                                                                                  blocks (indico.modules.events.sessions.models.sessions.Session
                             attribute), 317
                                                                                                                                                                                                                attribute), 240
background_image_id
                                                                                                                                                                (in-
                             dico.modules.events.abstracts.settings), 165
                             attribute), 317
                                                                                                                                                                                  BOALinkFormat
                                                                                                                                                                                                                                                                        (class
background_position
                                                                                                                                                                                                                                                                                                                                                     in-
                                                                                                                                                                (in-
                                                                                                                                                                                                                dico.modules.events.abstracts.settings), 165
                             dico.modules.designer.pdf.TplData attribute),
                                                                                                                                                                                  board_number(indico.modules.events.abstracts.settings.BOASortField
                                                                                                                                                                                                                attribute), 165
backside_template
                                                                                                                                                                (in-
                             dico. modules. designer. models. templates. Designer \cite{Template} number (indico. modules. events. contributions. models. contributions) and the properties of the proper
                                                                                                                                                                                                                attribute), 169
                             attribute), 317
                                                                                                                                                                (in- BOASortField
                                                                                                                                                                                                                                                                    (class
backside_template_id
                             dico. modules. designer. models. templates. Designer Template\ dico. modules. events. abstracts. settings),\ 165
```

Index 391

attribute), 317

```
attribute), 150
                                                                                                                                                       build_default_email_template() (in module
body (indico.modules.events.abstracts.models.email_templates.AbstrivedEonail@dulpkaevents.abstracts.util), 157
                        attribute), 150
                                                                                                                                                       build menu entry name()
                                                                                                                                                                                                                                                       (in
bookable_hours
                                                                                                                                                                                 dico.modules.events.layout.util), 186
                                                                                                                                        (in-
                        dico.modules.rb.models.rooms.Room attribute),
                                                                                                                                                       build_note_api_data()
                                                                                                                                                                                                                                                  (in
                                                                                                                                                                                                                                                                     module
                                                                                                                                                                                                                                                                                                  in-
                                                                                                                                                                                 dico.modules.events.notes.util), 192
                                                                                                                                                       build_note_legacy_api_data() (in module in-
BookableHours
                                                                        (class
                                                                                                              in
                                                                                                                                          in-
                                                                                                                                                                                 dico.modules.events.notes.util), 192
                         dico.modules.rb.models.room bookable hours),
                         293
                                                                                                                                                       build_registration_api_data() (in module
booked_for_id
                                                                                                                                        (in-
                                                                                                                                                                                 indico.modules.events.registration.util), 227
                         dico.modules.rb.models.reservations.Reservation build_registrations_api_data() (in module
                        attribute), 297
                                                                                                                                                                                 indico.modules.events.registration.util), 227
booked_for_name
                                                                                                                                                       build_rooms_spritesheet() (in module in-
                                                                                                                                        (in-
                        dico.modules.rb.models.reservations.Reservation
                                                                                                                                                                                 dico.modules.rb.util), 301
                        attribute), 297
                                                                                                                                                       build_user_search_query() (in module in-
booked_for_user
                                                                                                                                         (in-
                                                                                                                                                                                 dico.modules.users.util), 279
                         dico.modules.rb.models.reservations.Reservation building (indico.modules.rb.models.rooms.Room at-
                         attribute), 297
                                                                                                                                                                                 tribute), 289
booking_created (in module indico.core.signals.rb),
booking_deleted (in module indico.core.signals.rb),
                                                                                                                                                       CACHE DIR (built-in variable), 53
                                                                                                                                                        calculate price()
                                                                                                                                                                                                                                                                                                (in-
booking_limit_days
                                                                                                                                        (in-
                                                                                                                                                                                  dico.modules.events.registration.models.form_fields.Registration1
                         dico.modules.rb.models.rooms.Room attribute).
                                                                                                                                                                                 method), 217
                         289
                                                                                                                                                        calculate_rooms_bookable_time() (in mod-
booking_modified
                                                                             (in
                                                                                                      module
                                                                                                                                          in-
                                                                                                                                                                                  ule indico.modules.rb.statistics), 302
                         dico.core.signals.rb), 89
                                                                                                                                                        calculate_rooms_booked_time() (in module
booking_occurrence_state_changed (in mod-
                                                                                                                                                                                 indico.modules.rb.statistics), 302
                        ule indico.core.signals.rb), 89
                                                                                                                                                        calculate_rooms_occupancy() (in module in-
booking_reason
                                                                                                                                        (in-
                                                                                                                                                                                  dico.modules.rb.statistics), 302
                        {\it dico.modules.rb.models.reservations.} Reservation~{\tt call\_for\_proposals\_attr}
                        attribute), 297
                                                                                                                                                                                 dico.modules.events.abstracts.models.abstracts.Abstract
booking_state_changed
                                                                                                             module
                                                                                                                                                                                  attribute), 144
                         dico.core.signals.rb), 89
                                                                                                                                                        call_for_proposals_attr
                                                                                                                                                                                                                                                                                                (in-
\verb+both+ (indico.modules.events.abstracts.models.abstracts. Edit Track Models. modules.events. models. reviews. Proposal Mixin Models. modules. events. models. reviews. Proposal Mixin Models. events. models. events. models. events. models. events. models. events. models. events. events. models. events. events.
                        attribute), 148
                                                                                                                                                                                 attribute), 133
bottom right latitude
                                                                                                                                                        call_for_proposals_attr
                                                                                                                                                                                                                                                                                                (in-
                        dico.modules.rb.models.map_areas.MapArea
                                                                                                                                                                                 dico.modules.events.papers.models.papers.Paper
                         attribute), 296
                                                                                                                                                                                  attribute), 196
bottom_right_longitude
                                                                                                                                                        CallForAbstracts
                                                                                                                                                                                                                                        (class
                         dico.modules.rb.models.map\_areas.MapArea
                                                                                                                                                                                 dico.modules.events.abstracts.models.call for abstracts),
                         attribute), 296
                                                                                                                                                                                  148
Break (class in indico.modules.events.timetable.models.breaks), 1 For Papers
                                                                                                                                                                                                                                (class
                                                                                                                                                                                  dico.modules.events.papers.models.call_for_papers),
BREAK (indico.modules.events.timetable.models.entries.TimetableEntryFype
                         attribute), 256
                                                                                                                                                        can_accept() (indico.modules.rb.models.reservations.Reservation
break_(indico.modules.events.timetable.models.entries.TimetableEntrethod), 297
                        attribute), 254
                                                                                                                                                        can_access (in module indico.core.signals.acl), 81
\verb|break_id| (indico.modules.events.timetable.models.entries. \textit{TimetableEnty})| (indico.modules.attachments.models.attachments.Attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachmen
                         attribute), 254
                                                                                                                                                                                 method), 281
\texttt{buckets} (\textit{indico.modules.search.result\_schemas.} Aggregation \textbf{S} \textit{chemo} \textit{ess} () (\textit{indico.modules.attachments.models.folders.} Attachment \textbf{A} \textit{thackments.models.folders.} Attachment \textbf{A} \textit{thackments.models.} Attachment \textbf{A} \textit{thackments
                        attribute), 68
                                                                                                                                                                                 method), 284
BucketSchema
                                                                      (class
                                                                                                             in
                                                                                                                                          in-
                                                                                                                                                       can_access() (indico.modules.events.abstracts.models.abstracts.Abstra
                         dico.modules.search.result schemas), 68
                                                                                                                                                                                 method), 144
```

392 Index

```
can access () (indico.modules.events.contributions.models.subcontributionsl\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\subcontribution\su
             method), 177
                                                                                                  method), 259
can_access() (indico.modules.events.sessions.models.blocks.SessiontBlockvents()
                                                                                                  dico.modules.categories.models.categories.Category
             method), 241
can_access() (indico.modules.events.timetable.models.breaks.Breakthod), 264
                                                                                    can create invited abstracts() (in module
             method), 253
can access()(indico.modules.rb.models.rooms.Room
                                                                                                  indico.modules.events.abstracts.util), 157
             method), 289
                                                                                    can delete()(indico.modules.events.tracks.models.tracks.Track
can_access_judging_area()
                                                                           (in-
                                                                                                  method), 259
             dico.modules.events.papers.models.call_for_papers=CallF@1:Paper(s) (indico.modules.rb.models.blockings.Blocking
             method), 193
                                                                                                  method), 293
                                                                           (in- can_delete() (indico.modules.rb.models.reservations.Reservation
can_access_reviewing_area()
             dico.modules.events.papers.models.call_for_papers.CallFonPapersd), 297
             method), 193
                                                                                    can_delete() (indico.modules.rb.models.rooms.Room
can_be_managed()
                                                                           (in-
                                                                                                  method), 290
             dico.modules.events.requests.base.RequestDefinitionBaseisplay()
                                                                                                                                                               (in-
             class method), 238
                                                                                                  dico.modules.events.models.events.Event
can_be_modified
                                                                                                  method), 122
                                                                           (in-
             dico.modules.events.registration.models.registrationsxRegistration(indico.modules.events.abstracts.models.abstracts.Abstracts
             attribute), 212
                                                                                                  method), 145
can_be_modified
                                                                           (in- can_edit() (indico.modules.events.abstracts.models.comments.Abstract
             dico.modules.events.requests.models.requests.Request
                                                                                                  method), 149
             attribute), 236
                                                                                    can_edit()(indico.modules.events.abstracts.models.reviews.AbstractRe
can be modified()
                                                                           (in-
                                                                                                  method), 155
             dico.modules.events.payment.plugins.PaymentPluginMixinit() (indico.modules.events.models.reviews.ProposalCommentM
             method), 209
                                                                                                  method), 133
can_be_modified()
                                                                                  can_edit() (indico.modules.events.models.reviews.ProposalReviewMixi
             dico.modules.users.models.users.User
                                                                                                  method), 134
             method), 272
                                                                                    can_edit() (indico.modules.events.papers.models.comments.PaperRevio
can_be_withdrawn
                                                                           (in-
                                                                                                  method), 194
             dico.modules.events.registration.models.registrationsxRegistration(indico.modules.events.papers.models.reviews.PaperReview
             attribute), 212
                                                                                                  method), 199
can_book()
                        (indico.modules.rb.models.rooms.Room can_edit() (indico.modules.rb.models.blockings.Blocking
                                                                                                  method), 293
             method), 289
can cancel() (indico.modules.rb.models.reservation occurrences.tesevivation.Occulrences.tesevivations.Reservations.Reservation
             method), 300
                                                                                                  method), 297
can cancel()(indico.modules.rb.models.reservations.Reservationit()
                                                                                                            (indico.modules.rb.models.rooms.Room
                                                                                                  method), 290
             method), 297
                                                                           (in- can_edit_abstracts()
can_change_tracks()
                                                                                                                                                               (in-
             dico. modules. events. abstracts. models. abstracts. Abstract\\
                                                                                                 dico.modules.events.abstracts.models.call_for_abstracts.CallFora
             method), 144
                                                                                                  method), 148
                                                                           (in- can_edit_note()
can_comment()
                                                                                                                              (in
                                                                                                                                            module
                                                                                                                                                                in-
             dico.modules.events.abstracts.models.abstracts.Abstract
                                                                                                 dico.modules.events.notes.util), 192
             method), 144
                                                                                    can_edit_note()
                                                                                                                                                               (in-
can_comment()
                                                                           (in-
                                                                                                  dico. modules. events. sessions. models. blocks. Session Block
             dico.modules.events.models.reviews.ProposalMixin
                                                                                                  method), 242
             method), 133
                                                                                    can_get_all_multipass_groups
                                                                                                                                                               (in-
can_comment()
                                                                           (in-
                                                                                                  dico.modules.users.models.users.User
                                                                                                                                                                at-
             dico.modules.events.papers.models.papers.Paper
                                                                                                  tribute), 272
                                                                                    can_judge() (indico.modules.events.abstracts.models.abstracts.Abstrac
             method), 196
                                                                                                  method), 145
can_convene()
                                                                           (in-
             dico.modules.events.abstracts.models.abstracts.Abstractjudge () (indico.modules.events.papers.models.papers.Paper
             method), 145
                                                                                                  method), 196
can_convene()
                                                                           (in- can lock() (indico.modules.events.models.events.Event
```

attribute), 331

attribute), 332

attribute), 345

attribute), 339

I D 400		W > 22.5
method), 122		tribute), 335
can_manage (in module indico.core.signals.acl), 81		CAN_POPULATE (indico.web.forms.fields.OccurrencesField
can_manage() (indico.modules.events.contributions		
method), 169		can_prebook() (in-
	is.mod	odels.subcontiabutional&alr6.antdidationms.Room method),
method), 177	1	290
can_manage() (indico.modules.events.papers.mode	ets.pa _l	
method), 196		dico.modules.attachments.preview.PDFPreviewer
can_manage() (indico.modules.events.sessions.mod		
method), 242		can_preview() (in-
can_manage() (indico.modules.rb.models.rooms.Romethod), 290	oom	dico.modules.attachments.preview.Previewer class method), 288
can_manage_attachments() (in module	in-	<pre>can_reject() (indico.modules.rb.models.reservation_occurrences.Rese</pre>
dico.modules.attachments.util), 287		method), 300
<pre>can_manage_attachments()</pre>	(in-	<pre>can_reject() (indico.modules.rb.models.reservations.Reservation</pre>
dico.modules.events.sessions.models.blocks.		
method), 242		<pre>can_review() (indico.modules.events.abstracts.models.abstracts.Abstracts.Abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstract</pre>
<pre>can_manage_blocks()</pre>	(in-	method), 145
dico.modules.events.sessions.models.session	is.Ses	ssicen_review() (indico.modules.events.models.reviews.ProposalMixin
method), 240		method), 133
<pre>can_manage_contributions()</pre>	(in-	<pre>can_review() (indico.modules.events.papers.models.papers.Paper</pre>
dico.modules.events.sessions.models.session	ıs.Ses	ssion method), 196
method), 240		<pre>can_review_abstracts() (in-</pre>
can_manage_sessions() (in module	in-	dico.modules.events.tracks.models.tracks.Track
dico.modules.events.sessions.util), 244		method), 259
<pre>can_manage_vc()</pre>	(in-	can_see_reviews() (in-
dico.modules.vc.plugins.VCPluginMixin		dico. modules. events. abstracts. models. abstracts. Abstract
method), 314		method), 145
<pre>can_manage_vc_room()</pre>	(in-	<pre>can_submit() (indico.modules.events.papers.models.papers.Paper</pre>
${\it dico.modules.vc.plugins.VCP lugin Mixin}$		method), 196
method), 314		<pre>can_submit()(indico.modules.events.registration.models.forms.Registr</pre>
<pre>can_manage_vc_rooms()</pre>	(in-	method), 219
${\it dico.modules.vc.plugins.VCP lugin Mixin}$		<pre>can_submit() (indico.modules.events.surveys.models.surveys.Survey</pre>
method), 314		method), 246
		<pre>can_submit_abstracts() (in-</pre>
dico.modules.rb.models.rooms.Room metho	(d),	$dico. modules. events. abstracts. models. call_for_abstracts. Call Formula abstracts abstracts and the second contracts and the second contracts abstracts and the second contracts are second contracts. The second contracts are second contracts and the second contracts are second contracts and the second contracts are second contracts. The second contracts are second contracts and the second contracts are second contracts and the second contracts are second contracts. The second contracts are second contracts are second contracts and the second contracts are second contracts. The second contracts are second contracts are second contracts are second contracts and the second contract contracts are second contracts. The second contract contracts are second contracts and the second contract contracts are second contracts. The second contract contracts are second contracts are second contracts and the second contract contracts are second contracts. The second contract contracts are second contracts are second contracts and the second contract contracts are second contracts and the second contract contracts are second contracts and contracts are second contracts are secon$
290		method), 148
_ ``	(in-	<pre>can_submit_proceedings() (in-</pre>
dico.modules.rb.models.blockings.Blocking		dico. modules. events. contributions. models. contributions. Contributions.
method), 293		method), 170
_ ``		can_swap_entry() (in module in-
dico.modules.rb.models.rooms.Room metho	(d),	dico.modules.events.time table.operations),
290		256
	lds.Ei	Enœi lR_u well=istKi)el@ndico.modules.attachments.models.folders.AttachmentFold
attribute), 330		method), 284
CAN POPILLATE Lindico modules events abstracts tiel	Ids Ir	TrackRoleField) (indica modules events abstracts models comments Abstract

 $\verb|CAN_POPULATE| (indico.web.forms.fields.JSONField| at- \verb|can_view|()| (indico.modules.events.timetable.models.entries.TimetableE| (indico.modules.events.timetable.fields.JSONField| (indico.modules.events.timetable.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.fields.f$

CAN_POPULATE (indico.modules.events.papers.fields.PaperEmailSetting)s Findlico.modules.events.abstracts.models.reviews.AbstractRe

CAN_POPULATE (indico.web.forms.fields.IndicoLocationFields_view() (indico.modules.events.papers.models.comments.PaperReview)

CAN_POPULATE (indico.web.forms.fields.IndicoPalettePicke#FieldLew () (indico.modules.events.papers.models.reviews.PaperReview

method), 149

method), 155

method), 194

method), 199

```
method), 254
                                                                                                                                        attribute), 284
                                                                                                         (in- category_id (indico.modules.categories.models.principals.CategoryPri
can_withdraw()
                   dico.modules.events.abstracts.models.abstracts.Abstract
                                                                                                                                        attribute), 267
                   method), 145
                                                                                                                     category_id(indico.modules.categories.models.settings.CategorySettin
cancel (indico.modules.events.payment.models.transactions.Transactioniblata), p. 268
                                                                                                                    category id (indico.modules.designer.models.templates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemplates.DesignerTemp
                   attribute), 208
cancel () (indico.modules.rb.models.reservation occurrences.Reservation@ccutrlence
                                                                                                                     category_id(indico.modules.events.models.events.Event
                   method), 300
cancel()(indico.modules.rb.models.reservations.Reservation
                                                                                                                                        attribute), 122
                   method), 297
                                                                                                                     category_id (indico.modules.events.notes.models.notes.EventNote
cancelled (indico.modules.events.payment.models.transactions.Transactions)Status
                                                                                                                     category_id(indico.modules.rb.models.reservations.ReservationLink
                   attribute), 208
cancelled (indico.modules.rb.models.reservation_occurrences.Resattraibione) and renceState
                                                                                                                     category_id(indico.modules.users.models.suggestions.SuggestedCateg
                   attribute), 301
cancelled (indico.modules.rb.models.reservations.ReservationStatettribute), 277
                   attribute), 299
                                                                                                                     category_path
                                                                                                                                                                                                                              (in-
candidate_contrib_types
                                                                                                         (in-
                                                                                                                                        dico.modules.search.result_schemas.ResultSchemaBase
                   dico.modules.events.abstracts.models.abstracts.Abstract
                                                                                                                                        attribute), 71
                   attribute), 145
                                                                                                                     category_role
candidate tracks
                                                                                                         (in-
                                                                                                                                        dico.modules.attachments.models.principals.AttachmentFolderPr
                   dico.modules.events.abstracts.models.abstracts.Abstract
                                                                                                                                        attribute), 286
                   attribute), 145
                                                                                                                     category_role
capacity (indico.modules.rb.models.rooms.Room at-
                                                                                                                                         dico.modules.attachments.models.principals.AttachmentPrincipal
                   tribute), 290
                                                                                                                                        attribute), 287
Category
                                              (class
                                                                                                           in-
                                                                                                                    category_role
                                                                                                                                                                                                                              (in-
                   dico.modules.categories.models.categories),
                                                                                                                                        dico.modules.categories.models.principals.CategoryPrincipal
                                                                                                                                        attribute), 267
category (indico.core.plugins.IndicoPlugin attribute), category_role
                                                                                                                                                                                                                              (in-
                                                                                                                                        dico.modules.events.contributions.models.principals.Contribution
category (indico.modules.attachments.models.folders.AttachmentFaltdeibute), 176
                   attribute), 284
                                                                                                                     category_role
category (indico.modules.categories.models.settings.CategorySettingco.modules.events.models.principals.EventPrincipal
                   attribute), 268
                                                                                                                                        attribute), 130
category (indico.modules.designer.models.templates.Designer:Templaterole
                                                                                                                                                                                                                              (in-
                   attribute), 317
                                                                                                                                         dico.modules.events.models.settings.EventSettingPrincipal
category (indico.modules.events.models.events.Event
                                                                                                                                        attribute), 136
                   attribute), 122
                                                                                                                     category_role
category (indico.modules.events.notes.models.notes.EventNote
                                                                                                                                        dico.modules.events.sessions.models.principals.SessionPrincipal
                   attribute), 190
                                                                                                                                         attribute), 243
category (indico.modules.events.payment.plugins.Payment&thegiptMixincole
                                                                                                                                        dico.modules.events.tracks.models.principals.TrackPrincipal
                   attribute), 209
category (indico.modules.rb.models.reservations.ReservationLink attribute), 260
                   attribute), 299
                                                                                                                     category_role
                                                                                                                                                                                                                              (in-
                                                                                                                                         dico. modules. rb. models. blocking\_principals. Blocking Principal
                              (indico.modules.search.base.SearchTarget
category
                   attribute), 70
                                                                                                                                         attribute), 295
category (indico.modules.users.models.suggestions.Suggested Category cole_id
                                                                                                                                                                                                                              (in-
                   attribute), 277
                                                                                                                                        dico.modules.attachments.models.principals.AttachmentFolderPr
category (indico.modules.vc.plugins.VCPluginMixin
                                                                                                                                         attribute), 286
                   attribute), 314
                                                                                                                     category_role_id
category_chain_overlaps()
                                                                                                         (in-
                                                                                                                                        dico.modules.attachments.models.principals.AttachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attachmentPrincipals.attach
                   dico.modules.events.models.events.Event
                                                                                                                                        attribute), 287
                   class method), 122
                                                                                                                     category_role_id
CATEGORY_CLEANUP (built-in variable), 57
                                                                                                                                        dico.modules.categories.models.principals.CategoryPrincipal
```

category id (indico.modules.attachments.models.folders.Attachmentsliblde), 267

category_role_id

catego	ry_role_id	(ın-	290
	dico.modules.events.contributions.models.	princip	<i>ipa</i> dn €ok<u>tr</u>ibatikæBrivec<u>i</u>pa durs() (in-
	attribute), 176		dico.modules.rb.models.rooms.Room method),
catego	pry_role_id	(in-	290
_	dico.modules.events.models.principals.Eve	entPrin	incipalck client() (in-
	attribute), 130		dico.core.oauth.models.tokens.OAuthToken
catego	pry_role_id	(in-	
5 -	dico.modules.events.models.settings.Event	`	
	attribute), 136		dico.core.oauth.models.applications.OAuthApplication
catego	pry_role_id	(in-	
caccgc			SessionRrinaiphoint_auth_method() (in-
	attribute), 243	прав.	dico.core.oauth.models.applications.OAuthApplication
catego	pry_role_id	(in-	
caccyc	dico.modules.events.tracks.models.princip	,	· · · · · · · · · · · · · · · · · · ·
	attribute), 260	uis.11u	dico.modules.events.util), 139
aa+ aaa		(in	
catego	ory_role_id	(in-	
		us.bioc	ockingPrinci pid o.core.oauth.models.applications.OAuthApplication
	attribute), 295	(in	method), 305
catego	ory_roles	(in-	—•
	dico.modules.events.abstracts.fields.Track	RoleFie	
	attribute), 331		check_permissions() (in module in-
Catego	oryField (class in	in-	<i>"</i>
	dico.modules.categories.fields), 333		check_redirect_uri() (in-
Catego	oryPrincipal (class in	in-	11 11
	dico.modules.categories.models.principals	s),	method), 305
	267		<pre>check_registration_email() (in module in-</pre>
Catego	orySetting (class in	in-	dico.modules.events.registration.util), 227
	dico. modules. categories. models. settings),		check_response_type() (in-
	268		dico. core. oauth. models. applications. OA uth Application
Catego	rySettingsProxy (class in	in-	method), 305
	dico.modules.categories.settings), 270		$\verb checked_in (indico.modules.events.registration.models.registrations.Reflection) $
Catego	oryTitlePlaceholder (class in	in-	attribute), 212
	dico.modules.designer.placeholders), 323		checked_in_dt (in-
CELERY	Z_BROKER (built-in variable), 49		dico. modules. events. registration. models. registrations. Registration and the property of
CELERY	Z_CONFIG (built-in variable), 49		attribute), 212
CELERY	Z_RESULT_BACKEND (built-in variable), 4	19	checkin(indico.core.oauth.models.applications.SystemAppType
Cell (d	class in indico.modules.events.registration.s	stats),	attribute), 307
	233		children (indico.modules.categories.models.categories.Category
cfa (indico.modules.events.models.events.Event	at-	attribute), 264
	tribute), 122		children (indico.modules.events.layout.models.menu.MenuEntry
cfp (indico.modules.events.models.events.Event	at-	
- `	tribute), 122		children (indico.modules.events.registration.models.form_fields.Registr
cfp(ina	lico.modules.events.models.reviews.Proposo	ılMixin	
1 \	attribute), 133		children (indico.modules.events.registration.models.form_fields.Registr
chain	query (indico.modules.categories.models.	catego	
	attribute), 264		children (indico.modules.events.registration.models.items.Registration)
change	e (indico.modules.events.logs.models.entries	Eventl	
0114119	attribute), 187		children (indico.modules.events.registration.models.items.Registration)
change	e_tracks	(in-	· · · · · · · · · · · · · · · · · · ·
Jiidiige			bstraatAction (indico.modules.events.registration.models.items.Registration
	attribute), 154	C 11 5.1 1U	attribute), 225
check	_access (in module indico.core.signals.rh	08 (children (indico.modules.events.registration.models.items.Registration)
	access (<i>in module indico.core.signais.rii,</i> _advance_days ()), 69 (in-	
CHECK_		`	children (indico.modules.events.surveys.models.items.SurveySection
	aico.moanies.ro.moaeis.rooms.Room mel	nou),	CILL LUL CII (INGICO. MOGINES. EVENIS. SUI VEYS. MOGELS. HEMS. SUI VEYSELLON

290

(in-

```
attribute), 249
                                                                                                                 colorlinks (indico.modules.events.abstracts.settings.BOALinkFormat
children (indico.modules.events.timetable.models.entries.TimetableEmibyte), 165
                                                                                                                 column (indico.modules.events.registration.models.items.PersonalDataTyp
                          (indico.web.forms.fields.RelativeDeltaField
                                                                                                                                    attribute), 223
choices
                  attribute), 346
                                                                                                                 comment (indico.modules.auth.models.registration_requests.Registration.F
choices (indico.web.forms.fields.TimeDeltaField at-
                                                                                                                                    attribute), 303
                  tribute), 340
                                                                                                                 comment (indico.modules.events.abstracts.models.reviews.AbstractReview
clear_boa_cache()
                                                            (in
                                                                             module
                                                                                                       in-
                                                                                                                                    attribute), 155
                  dico.modules.events.abstracts.util), 157
                                                                                                                 {\tt comment} (indico.modules.events.papers.models.reviews.PaperReview
cli (in module indico.core.signals.plugin), 88
                                                                                                                                    attribute), 199
client_id (indico.core.oauth.models.applications.OAuthApplication(indico.modules.events.requests.models.requests.Request
                                                                                                                                    attribute), 236
                  attribute), 306
client_secret
                                                                                                     (in- comments (indico.modules.rb.models.rooms.Room at-
                                                                                                                                    tribute), 290
                  dico.core.oauth.models.applications.OAuthApplication
                  attribute), 306
                                                                                                                 COMMUNITY_HUB_URL (built-in variable), 52
clone_event()
                                                    (in
                                                                         module
                                                                                                                 competences (indico.modules.events.papers.models.competences.Papers
                  dico.modules.events.operations), 137
                                                                                                                                    attribute), 195
clone_into_event()
                                                                                                                 complete (indico.modules.events.payment.models.transactions.Transactions.
                                                             (in
                                                                                                       in-
                  dico.modules.events.operations), 138
                                                                                                                                    attribute), 208
method), 314
                                                                                                                                    attribute), 217
cloned (in module indico.core.signals.event), 84
                                                                                                                 condition_choices
cloned_from(indico.modules.events.models.events.Event
                                                                                                                                    dico.modules.events.abstracts.fields.EmailRuleListField
                  attribute), 122
                                                                                                                                    attribute), 330
cloned_from_id
                                                                                                                 condition_class_map
                                                                                                                                                                                                                       (in-
                  dico.modules.events.models.events.Event
                                                                                                                                    dico.modules.events.abstracts.fields.EmailRuleListField
                  attribute), 122
                                                                                                                                    attribute), 330
method), 148
                                                                                                                                    attribute), 127
close() (indico.modules.events.papers.models.call_for_papers.CallFanPupersindico.core.plugins.IndicoPlugin at-
                   method), 193
                                                                                                                                    tribute), 77
\verb|close|| (indico.modules.events.surveys.models.surveys.Surveys.Surveys|| icting (indico.modules.events.abstracts.models.abstracts.Abstracts.Abstracts|| indico.modules.events.abstracts|| indico.modules.events|| icting (indico.modules.events.abstracts.models.abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstra
                  method), 246
                                                                                                                                    attribute), 147
close_cfa()
                                                                       module
                                                                                                                 ConflictingOccurrences, 296
                                                (in
                                                                                                       in-
                  dico.modules.events.abstracts.operations),
                                                                                                                 contact email
                                                                                                                                    dico. modules. rb. models. reservations. Reservation\\
close_cfp()
                                                                       module
                                                                                                       in-
                                                                                                                                    attribute), 297
                  dico.modules.events.papers.operations),
                                                                                                                 contact emails
                                                                                                                                                                                                                       (in-
                   203
                                                                                                                                    dico.modules.events.models.events.Event
CoAuthorsPlaceholder
                                                                   (class
                                                                                                                                    attribute), 122
                                                                                                       in-
                  dico.modules.events.abstracts.placeholders),
                                                                                                                 \verb|contact_info| (indico.modules.events.registration.models.forms.Registration.models.forms.Registration.models.forms.Registration.models.forms.Registration.models.forms.Registration.models.forms.Registration.models.forms.Registration.models.forms.Registration.models.forms.Registration.models.forms.Registration.models.forms.Registration.models.forms.Registration.models.forms.Registration.models.forms.Registration.models.forms.Registration.models.forms.Registration.models.forms.Registration.models.forms.Registration.models.forms.Registration.models.forms.Registration.models.forms.Registration.models.forms.Registration.models.forms.Registration.models.forms.Registration.models.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Registration.forms.Regist
                                                                                                                                    attribute), 219
code (indico.modules.events.contributions.models.contributionst Gontributions s
                                                                                                                                                                                                                       (in-
                                                                                                                                    dico.modules.events.models.events.Event
                  attribute), 170
code (indico.modules.events.contributions.models.subcontributions.Satb @bute) but@bute
                   attribute), 177
                                                                                                                 contact_title
                                                                                                                                                                                                                       (in-
\verb"code" (indico.modules.events.sessions.models.blocks.SessionBlock") \\
                                                                                                                                   dico.modules.events.models.events.Event
                  attribute), 242
                                                                                                                                    attribute), 122
code (indico.modules.events.sessions.models.sessions.Session*)
                  attribute), 240
                                                                                                                                    dico.modules.networks.models.networks.IPNetworkGroup
\verb"code" (indico.modules.events.tracks.models.tracks.Track")
                                                                                                                                    method), 325
                  attribute), 259
                                                                                                                 contains_user()
collect_static_files()
                                                                                  module
                                                                                                       in-
                                                                                                                                    dico.modules.events.settings.EventACLProxy
                                                                     (in
                  dico.modules.events.static.util), 263
                                                                                                                                    method), 142, 204
```

attribute), 70

```
content (indico.modules.events.papers.models.reviews.PaperReviewTypeon (indico.modules.vc.models.vc_rooms.VCRoomLinkType
                                                                                                                                  attribute), 313
                  attribute), 200
content (indico.modules.news.models.news.NewsItem contribution count
                  attribute), 326
                                                                                                                                  dico. modules. events. sessions. models. blocks. Session Block\\
content (indico.modules.search.result_schemas.EventNoteResultSchuemibute), 242
                  attribute), 73
                                                                                                                contribution created
                                                                                                                                                                                               module
                                                                                                                                                                                (in
                                                                                                                                                                                                                      in-
content (indico.modules.search.result schemas.HighlightSchema dico.core.signals.event), 84
                                                                                                                contribution deleted
                  attribute), 73
                                                                                                                                                                                (in
                                                                                                                                                                                               module
                                                                                                                                                                                                                      in-
content_review_questions
                                                                                                    (in-
                                                                                                                                   dico.core.signals.event), 84
                  dico.modules.events.papers.models.call_for_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_paperscallfor_p
                                                                                                                                                                                                                    (in-
                  attribute), 193
                                                                                                                                  dico.modules.events.abstracts.models.fields.AbstractFieldValue
content_reviewer_deadline
                                                                                                                                  attribute), 151
                                                                                                    (in-
                  dico.modules.events.papers.models.call_for_papersscall#FobPapersn_field
                                                                                                                                                                                                                    (in-
                  attribute), 193
                                                                                                                                  dico.modules.events.contributions.models.fields.ContributionField
content_reviewer_deadline_enforced (in-
                                                                                                                                  attribute), 173
                  dico.modules.events.papers.models.call_for_papersscalltForDatpiersn_field
                                                                                                                                                                                                                    (in-
                                                                                                                                  dico.modules.events.contributions.models.fields.ContributionField
                  attribute), 193
content reviewers
                                                                                                                                   attribute), 174
                  dico.modules.events.papers.models.call_for_paperscGallFobPapieosn_field_backref_name
                  attribute), 193
                                                                                                                                  dico.modules.events.abstracts.models.fields.AbstractFieldValue
content_reviewing_enabled
                                                                                                    (in-
                                                                                                                                  attribute), 152
                  dico.modules.events.papers.models.call_for_papersxCallForPapiersn_field_backref_name
                                                                                                                                  dico.modules.events.contributions.models.fields.ContributionField
content type (indico.modules.attachments.models.attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attachments.Attach
                  attribute), 283
                                                                                                               contribution field backref name
                                                                                                                                                                                                                    (in-
content_type (indico.modules.designer.models.images.DesignerIndiageFibelules.events.contributions.models.fields.ContributionField
                                                                                                                                   attribute), 174
                  attribute), 317
content_type(indico.modules.events.abstracts.models.files:AbstractFilen_field_id
                                                                                                                                                                                                                    (in-
                                                                                                                                  dico.modules.events.abstracts.models.fields.AbstractFieldValue
                  attribute), 152
content_type (indico.modules.events.layout.models.images.Imagedfithibute), 152
                  attribute), 182
                                                                                                                contribution_field_id
content_type (indico.modules.events.papers.models.files.PaperFildico.modules.events.contributions.models.fields.ContributionField
                  attribute), 195
                                                                                                                                  attribute), 174
content_type(indico.modules.events.papers.models.templatex:RaperTemplate*eld_id
                                                                                                                                                                                                                    (in-
                  attribute), 202
                                                                                                                                  dico.modules.events.contributions.models.fields.ContributionField
content_type (indico.modules.events.registration.models.registrationribReg); trationData
                                                                                                                contribution id
                                                                                                                                                                                                                    (in-
attribute), 262
                                                                                                                                   attribute), 284
Contribution
                                                   (class
                                                                                                     in- contribution_id
                  dico.modules.events.contributions.models.contributions), dico.modules.events.contributions.models.fields.ContributionField
                                                                                                                                  attribute), 174
contribution (indico.modules.attachments.models.folders AttachmentFolders
                                                                                                                                                                                                                    (in-
                                                                                                                                  dico.modules.events.contributions.models.persons.ContributionPe
                  attribute), 284
contribution (indico.modules.events.notes.models.notes.EventNotatribute), 174
                  attribute), 190
                                                                                                                contribution_id
                                                                                                                                                                                                                    (in-
contribution (indico.modules.events.timetable.models.entries.Tinditable@dutes.events.contributions.models.principals.Contribution
                  attribute), 254
                                                                                                                                  attribute), 176
CONTRIBUTION (indico.modules.events.timetable.models.eventscrEibretableEntreType
                  attribute), 256
                                                                                                                                  dico.modules.events.contributions.models.references.Contribution
contribution (indico.modules.rb.models.reservations.Reservationdtinbute), 177
                  attribute), 299
                                                                                                                contribution_id
contribution (indico.modules.search.base.SearchTarget
                                                                                                                                  dico.modules.events.contributions.models.subcontributions.SubCo
```

398 Index

attribute), 177

```
contribution id
                                                 (in- ContributionsPlaceholder
         dico.modules.events.notes.models.notes.EventNote
                                                                dico.modules.events.persons.placeholders),
         attribute), 190
contribution_id
                                                 (in- ContributionType
                                                                                                         in-
                                                                                    (class
                                                                                                in
         dico.modules.events.timetable.models.entries.TimetableEntradico.modules.events.contributions.models.types),
         attribute), 254
                                                 (in- ContributionTypePlaceholder (class in in-
contribution id
                                                                dico.modules.events.abstracts.placeholders),
         dico.modules.rb.models.reservations.ReservationLink
         attribute), 299
                                                 (in- ContributionURLPlaceholder (class in in-
contribution_id
         dico.modules.search.result\_schemas. Attachment Result Schem \textit{dia} co.modules.events. abstracts.placeholders),
         attribute), 72
                                                                164
contribution_id
                                                 (in- contributors (indico.modules.events.abstracts.models.reviews.Abstrac
         dico.modules.search.result_schemas.ContributionResultSchemuibute), 155
                                                       contributors (indico.modules.events.papers.models.reviews.PaperCom
         attribute), 71
contribution_id
                                                 (in-
                                                                attribute), 199
         dico.modules.search.result\_schemas.EventNoteResultSchemax \approx (indico.modules.events.abstracts.models.reviews.AbstractComparents.abstracts.models.reviews.AbstractSchemax
                                                                attribute), 155
contribution_id
                                                 (in- conveners (indico.modules.events.sessions.models.sessions.Session
         dico.modules.vc.models.vc rooms.VCRoomEventAssociationttribute), 240
         attribute), 312
                                                       count (indico.modules.search.result_schemas.BucketSchema
contribution submitters
                                                 (in-
                                                                attribute), 68
         dico.modules.events.abstracts.models.call_for_abstracts_GolUFootRebstroctusles.events.registration.models.items.PersonalDataT
         attribute), 148
                                                                attribute), 223
contribution_type_row()
                                  (in
                                        module
                                                  in-
                                                       create() (indico.modules.events.models.static_list_links.StaticListLink
         dico.modules.events.contributions.util), 180
                                                                class method), 137
contribution_updated
                                (in
                                       module
                                                       create_abstract()
                                                                                             module
                                                  in-
                                                                                    (in
                                                                                                         in-
         dico.core.signals.event), 84
                                                                dico.modules.events.abstracts.operations),
ContributionField
                              (class
                                          in
                                                  in-
         dico.modules.events.contributions.models.fields), create_abstract_comment() (in module in-
                                                                dico.modules.events.abstracts.operations),
ContributionFieldValue
                                  (class
                                            in
                                                  in-
                                                                156
         dico.modules.events.contributions.models.fields), create_abstract_review() (in module
                                                                dico.modules.events.abstracts.operations),
ContributionFieldValueBase (class in in-
                                                                156
         dico.modules.events.contributions.models.fields), create boa()
                                                                                (in
                                                                                          module
                                                                                                         in-
                                                                dico.modules.events.abstracts.util), 157
ContributionFieldVisibility (class in in- create_boa_tex()
                                                                                            module
                                                                                   (in
                                                                                                         in-
         dico.modules.events.contributions.models.fields),
                                                                dico.modules.events.abstracts.util), 157
         174
                                                       create_break_entry()
                                                                                       (in
                                                                                                         in-
ContributionPersonLink
                                                                dico.modules.events.timetable.operations),
                                  (class
                                            in
                                                  in-
         dico.modules.events.contributions.models.persons),
                                                                256
                                                       create_category()
                                                                                    (in
                                                                                             module
                                                                                                         in-
                                                                dico.modules.categories.operations), 268
ContributionPersonLinkListField (class in
         indico.modules.events.contributions.fields),
                                                       create_comment()
                                                                                            module
                                                                                                         in-
                                                                                   (in
         331
                                                                dico.modules.events.papers.operations),
                                 (class
ContributionPrincipal
                                           in
                                                  in-
                                                                203
         dico.modules.events.contributions.models.principals)eate_comment_endpoint
                                                                                                         (in-
         175
                                                                dico.modules.events.abstracts.models.abstracts.Abstract
ContributionReference
                                 (class
                                           in
                                                  in-
                                                                attribute), 145
         {\it dico.modules.events.contributions.models.reference} \textbf{x}) \textbf{pate\_comment\_endpoint}
                                                                                                         (in-
                                                                dico.modules.events.models.reviews.ProposalMixin
ContributionResultSchema
                                    (class
                                                                attribute), 133
                                                  in-
         dico.modules.search.result_schemas), 71
                                                       create_competences()
                                                                                       (in
                                                                                              module
                                                                                                         in-
```

	dico.modules.events.papers.operations), 203		create_	_paper_template() (in module dico.modules.events.papers.operations), 20	<i>in-</i> 3
create	_contribution() (in module		create	_personal_data_fields() (in mo	dule
	dico.modules.events.contributions.operatio	ns),		indico.modules.events.registration.util), 22	
~~~~+~	179		create_	_reference_type() (in module dico.modules.events.operations), 138	in-
create	_contribution_from_abstract()			<u> </u>	·
	(in module		create.	_registration() (in module	in-
	dico.modules.events.contributions.operatio	ns),		dico.modules.events.registration.util), 227	:
arosto		in-	create_	_review() (in module dico.modules.events.papers.operations),	in-
	dico.modules.events.operations), 138			203	<i>(</i> *
create	_event_label() (in module	ın-	create_	_review_endpoint	(in-
	dico.modules.events.operations), 138			dico.modules.events.abstracts.models.abstr	acts.Abstract
create	_event_logo_tmp_file() (in modul			attribute), 145	
	dico.modules.events.util), 139			_review_endpoint	(in-
create	_event_references() (in module	in-		dico.modules.events.models.reviews.Propos	ralMixin
	dico.modules.events.operations), 138			attribute), 133	
create	_form()			_reviewing_question() (in module	ın-
	dico.modules.events.requests.base.Request	редпи			C.
	class method), 238	<i>(:</i>	create_	_revision()	(in-
create	_form()	(in-		dico.modules.events.notes.models.notes.Eve	entivote
	dico.modules.vc.plugins.VCPluginMixin			method), 190	C.
	method), 314	<i>(:</i>	create_		(in-
create	_from_data()	(in-		dico.modules.vc.plugins.VCPluginMixin	
	dico.modules.events.agreements.models.ag	reemei			(in
amaa+a	static method), 166	(in-	create_	_series() dico.modules.rb.models.reservation_occurr	(in-
Create	_from_data() dico.modules.rb.models.reservations.Reser	,		class method), 300	ences.ReservationOcc
	class method), 297	vanon		_series_for_reservation()	(in-
arosto	_from_email()	(in-	Create_	_series_ior_reservation() dico.modules.rb.models.reservation_occurr	`
Create	iron_emair() dico.modules.events.abstracts.models.emai		Abstract		ences.ReservationOcc
	class method), 150	ı_ıogs.		_session() (in module	in-
arosto	_from_user()	(in-	Creace_	dico.modules.events.sessions.operations),	iri-
Create	iron_user() dico.modules.events.models.persons.Events			244	
	class method), 128			_session_block() (in module	in-
create	_judgment_endpoint	(in-		dico.modules.events.sessions.operations),	in-
CICACC	dagmene_enaporne dico.modules.events.abstracts.models.abstr			_	
				_session_block_entry() (in module	o in-
create	_judgment_endpoint	(in-	CICACC_	dico.modules.events.timetable.operations),	
orcaco		`	inreate	_subcontribution() (in module	
	attribute), 133	3000111100	·Breace_	dico.modules.events.contributions.operation	
create	_manager_form()	(in-		179	25),
orcaco	managetterm() dico.modules.events.requests.base.Request.	`	ionBaste		in-
	class method), 238	Dejinii	romanoe e_	dico.modules.events.timetable.operations),	
create	_mock_abstract() (in module	in-		256	
323400	dico.modules.events.abstracts.util), 157		create	_track() (in module	in-
create	_next()	(in-	5 <u>2</u> 54 56 <u>.</u>	dico.modules.events.tracks.operations), 261	
	dico.modules.events.payment.models.trans	,	s.Pawnend		in-
	class method), 207			dico.modules.events.tracks.operations), 261	
creat.e	_occurrences()	(in-	creat.e	_untrusted_persons	(in-
2 2 2 0	dico.modules.rb.models.reservations.Reser			dico.modules.events.abstracts.fields.Abstra	`
	method), 297			attribute), 329	
create		in-	create	_untrusted_persons	(in-
	dico modules events papers operations) 20			dico modules events fields EventPersonList	`

attribute), 327			attribute), 194
<pre>create_user()</pre>	(in module	in-	<pre>created_dt (indico.modules.events.papers.models.files.PaperFile</pre>
	sers.operations), 278		attribute), 195
created (in module ind			$\verb created_dt  (indico.modules.events.papers.models.reviews.PaperJudgments.papers.models.reviews.PaperJudgments.papers.models.reviews.PaperJudgments.papers.models.reviews.Papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.paper$
created (in module ind			attribute), 199
	?s.vc.models.vc_room	s.VCRoomS	$tatus$ eated_dt (indico.modules.events.papers.models.reviews.PaperReviews.papers.models.reviews.PaperReviews.papers.models.reviews.PaperReviews.papers.models.reviews.PaperReviews.papers.models.reviews.PaperReviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.papers.models.reviews.paper
attribute), 314			attribute), 199
created_by_id			created_dt (indico.modules.events.papers.models.templates.PaperTem
	vents.requests.models	.requests.Re	
attribute), 236		<i>(</i> •	created_dt (indico.modules.events.registration.models.registrations.Re
created_by_id		(in-	attribute), 215
	b.models.blockings.Bl	ocking	created_dt (indico.modules.events.reminders.models.reminders.Eventl
attribute), 293		(;	attribute), 234
created_by_id	o.models.reservations		created_dt (indico.modules.events.requests.models.requests.Request
	o.moaets.reservations	.keservanon	
attribute), 297		(in-	created_dt (indico.modules.events.static.models.static.StaticSite
created_by_id	c.models.vc_rooms.V	*	attribute), 262 created_dt (indico.modules.news.models.news.NewsItem
attribute), 312	:.models.vc_rooms.v	CKoom	attribute), 326
created_by_user		(in-	created_dt (indico.modules.rb.models.blockings.Blocking
	vents.requests.models		
attribute), 236	rems.requesis.moueis	.requesis.Re	created_dt (indico.modules.rb.models.reservations.Reservation
created_by_user		(in-	attribute), 297
	b.models.blockings.Bl	•	created_dt (indico.modules.vc.models.vc_rooms.VCRoom
attribute), 293	oucis.otockings.bi	centra	attribute), 312
created_by_user		(in-	creator (indico.modules.events.models.events.Event
	b.models.reservations		· · · · · · · · · · · · · · · · · · ·
attribute), 297			creator (indico.modules.events.reminders.models.reminders.EventRemi
created_by_user		(in-	attribute), 235
	c.models.vc_rooms.V	•	
attribute), 312			attribute), 262
created_dt (indico.co	re.oauth.models.tokei	ns.OAuthTok	rearcator_id(indico.modules.events.models.events.Event
attribute), 309			attribute), 122
created_dt(indico.co	re.oauth.models.tokei	ns.TokenMod	$del Base { t tor_id} \ (indico.modules.events.reminders.models.reminders.Eventle \ )$
attribute), 309			attribute), 235
created_dt(indico.ma	odules.attachments.m	odels.attach	mænts:Attow <u>h</u> nenti <b>hide</b> co.modules.events.static.models.static.StaticSite
attribute), 283			attribute), 262
_ `	odules.designer.mode	ls.images.De	es <b>ignerkmageKih</b> dico.modules.events.payment.models.transactions.Payment
attribute), 317			attribute), 207
_ `	odules.events.abstrac	ts.models.co	m <b>wents=Abstr(intCiommod</b> tıles.events.registration.models.forms.Registration
attribute), 149			attribute), 219
	odules.events.abstrac	ts.models.file	es:AhstrantFileindico.modules.events.registration.models.registrations.Regis
attribute), 152			attribute), 212
_ `	dules.events.abstrac	ts.models.re	views:Absttac@evie(indico.modules.events.registration.models.form_fields.f
attribute), 155			attribute), 217

created_dt (indico.modules.events.notes.models.notes.EventNetaRevdsion (indico.modules.events.registration.models.items.Registra
attribute), 192
attribute), 225
created_dt (indico.modules.events.papers.models.comments.PaperReview.Cindinonnodules.events.registration.models.items.Registra

 $\verb|created_dt| (indico.modules.events.layout.models.images: \verb|lmage| Fit | e_data| (indico.modules.events.registration.models.form_fields.Related | e_data|) | e_data| (indico.modules.events.form_fields.Related | e_data|) | e_data| (indico.modules.events.form_fields.form_fields.form_fields.form_fields.form_fields.form_fields.form_fields.form_fields.form_fields.form_fields.form_fields.form_fi$ 

created_dt (indico.modules.events.models.events.Event current_data (indico.modules.events.registration.models.items.Registra

created_dt (indico.modules.events.models.static_list_links.StatioListLinks (indico.modules.events.registration.models.items.Registra

attribute), 182

attribute), 122

attribute), 137

Index

attribute), 218

attribute), 223

attribute), 225

401

```
attribute), 226
                                                                                                                   data (indico.modules.events.contributions.models.fields.ContributionField
                                                                                                       (in-
                                                                                                                                      attribute), 174
current_data_id
                  dico.modules.events.registration.models.form_fields=Registrationmodels.events.contributions.models.fields.ContributionField
                   attribute), 217
                                                                                                                                      attribute), 174
current_data_id
                                                                                                       (in- data (indico.modules.events.logs.models.entries.EventLogEntry
                  dico.modules.events.registration.models.form fields.RegistratioriHatenR&FsonalDataField
                  attribute), 218
                                                                                                                   data(indico.modules.events.models.static_list_links.StaticListLink
current data id
                                                                                                       (in-
                                                                                                                                      attribute), 137
                   dico.modules.events.registration.models.items.RegdstrationMicroHundules.events.payment.models.transactions.PaymentTransac
                  attribute), 223
                                                                                                                                      attribute), 207
current_data_id
                                                                                                       (in- data (indico.modules.events.registration.models.form_fields.RegistrationF
                   dico.modules.events.registration.models.items.RegistrationFatriPatsonalDataSection
                  attribute), 225
                                                                                                                   data (indico.modules.events.registration.models.form_fields.RegistrationF
current_data_id
                                                                                                       (in-
                                                                                                                                      attribute), 218
                  dico.modules.events.registration.models.items.Registratioinflierns.events.registration.models.items.RegistrationFormIte
                  attribute), 225
                                                                                                                                       attribute), 223
                                                                                                       (in-data (indico.modules.events.registration.models.items.RegistrationFormPe
current_data_id
                   dico.modules.events.registration.models.items.RegistrationFattriBexte), 225
                                                                                                                   {\tt data}\ (indico.modules.events.registration.models.items.RegistrationFormSet)
                  attribute), 226
current revision
                                                                                                       (in-
                                                                                                                                       attribute), 225
                  dico.modules.events.notes.models.notes.EventNotedata (indico.modules.events.registration.models.items.RegistrationFormTe
                  attribute), 190
                                                                                                                                      attribute), 226
                                                                                                       (in- data (indico.modules.events.registration.models.registrations.Registration
current_revision_id
                  dico.modules.events.notes.models.notes.EventNote
                                                                                                                                      attribute), 212
                  attribute), 190
                                                                                                                   data (indico.modules.events.registration.models.registrations.Registration
\verb"custom" (indico.modules.users.models.users.Profile Picture Source
                                                                                                                                      attribute), 215
                   attribute), 272
                                                                                                                   data (indico.modules.events.requests.models.requests.Request
custom_boa(indico.modules.events.models.events.Event
                                                                                                                                       attribute), 236
                  attribute), 122
                                                                                                                   data (indico.modules.events.surveys.models.submissions.SurveyAnswer
custom_boa_id
                                                                                                                                      attribute), 250
                                                                                                       (in-
                  dico.modules.events.models.events.Event
                                                                                                                   data (indico.modules.rb.models.photos.Photo attribute),
                  attribute), 123
CUSTOM_COUNTRIES (built-in variable), 51
                                                                                                                   data (indico.modules.vc.models.vc_rooms.VCRoom at-
CUSTOM_LANGUAGES (built-in variable), 51
                                                                                                                                      tribute), 312
CustomFieldsMixin
                                                              (class
                                                                                                                  data(indico.modules.vc.models.vc_rooms.VCRoomEventAssociation
                                                                                                         in-
                  dico.modules.events.contributions.models.contributions),
                                                                                                                                     attribute), 312
                                                                                                                   data (indico.web.forms.fields.IndicoQuerySelectMultipleField
CUSTOMIZATION_DEBUG (built-in variable), 50
                                                                                                                                       attribute), 344
CUSTOMIZATION_DIR (built-in variable), 50
                                                                                                                   data_by_field
                                                                                                                                                                                                                           (in-
                                                                                                                                      dico.modules.events.abstracts.models.abstracts.Abstract
D
                                                                                                                                      attribute), 145
danger (indico.modules.categories.models.categories.Even Message Mbdeld
                                                                                                                                       dico.modules.events.registration.models.registrations.Registration
                                                                                                                                       attribute), 212
data (indico.modules.auth.models.identities.Identity at-
                                                                                                                   data_versions
                   tribute), 302
\verb|data| (indico.modules.designer.models.templates.DesignerTemplate| dico.modules.events.registration.models.form\_fields.Registration.DesignerTemplate| dico.modules.events.registration.models.form\_fields.Registration.DesignerTemplate| dico.modules.events.registration.models.form\_fields.Registration.DesignerTemplate| dico.modules.events.registration.models.form\_fields.Registration.DesignerTemplate| dico.modules.events.registration.models.form\_fields.Registration.DesignerTemplate| dico.modules.events.registration.models.form\_fields.Registration.DesignerTemplate| dico.modules.events.registration.DesignerTemplate| dico.modules.events.registration.DesignerTemplate|
                                                                                                                                       attribute), 217
                   attribute), 317
data (indico.modules.events.abstracts.models.email_logs.AbstractEmailLogEntry
                                                                                                                                      dico.modules.events.registration.models.form_fields.Registration1
                   attribute), 150
data (indico.modules.events.abstracts.models.fields.AbstractFieldValatribute), 218
                                                                                                                   data_versions
                                                                                                                                                                                                                           (in-
                   attribute), 152
\verb|data| (indico.modules.events.agreements.models.agreements.Agreemed)| fo.modules.events.registration.models.items.RegistrationFormIndico.modules.events.agreements.agreements.agreemed)| fo.modules.events.registration.models.items.RegistrationFormIndico.modules.events.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agree
                                                                                                                                      attribute), 223
                   attribute), 166
                                                                                                                   data_versions
                                                                                                                                                                                                                           (in-
```

```
dico.modules.events.registration.models.items.RegistRatothEormPersondBuiltaBevitoiuble), 56
         attribute), 225
                                                       default_options (indico.web.forms.fields.FileField
data_versions
                                                                attribute), 342
                                                 (in-
         dico.modules.events.registration.models.items.RegdstrationEorptSqctiondico.modules.events.models.events.Event
         attribute), 225
                                                                attribute), 123
data_versions
                                                 (in- default page id
                                                                                                         (in-
         dico.modules.events.registration.models.items.RegistrationFdivoTievatdules.events.models.events.Event
         attribute), 226
                                                                attribute), 123
DataItem
                     (class
                                     in
                                                  in-
                                                      default_protection_mode
                                                                                                         (in-
         dico.modules.events.registration.stats), 233
                                                                dico.modules.rb.models.rooms.Room attribute),
\verb|date| (indico.modules.rb.models.reservation\_occurrences.Reservation \verb| 200 currence| \\
         attribute), 300
                                                       default_redirect_uri
DAY (indico.modules.rb.models.reservations.RepeatFrequency
                                                                dico.core.oauth.models.applications.OAuthApplication
         attribute), 296
                                                                attribute), 306
day_number_data
                                                 (in- default_render_mode
                                                                dico.modules.categories.models.categories.Category
         dico. web. forms. fields. Indico Week Day Repetition Field \\
         attribute), 346
                                                                attribute), 264
DB LOG (built-in variable), 52
                                                       default render mode
db_schema_created
                             (in
                                     module
                                                                dico.modules.events.abstracts.models.abstracts.Abstract
                                                  in-
         dico.core.signals.core), 83
                                                                attribute), 145
DEBUG (built-in variable), 52
                                                       default_render_mode
                                                                                                         (in-
declined (indico.modules.events.registration.models.invitations.Invitationstatles.events.abstracts.models.reviews.AbstractReview
         attribute), 221
                                                                attribute), 155
deep_children_query
                                                 (in- default render mode
         dico.modules.categories.models.categories.Category
                                                                dico.modules.events.contributions.models.contributions.Contribu
         attribute), 264
                                                                attribute), 170
default_badge_template
                                                 (in- default_render_mode
                                                                                                         (in-
         dico.modules.categories.models.categories.Category
                                                                dico.modules.events.contributions.models.subcontributions.SubCo
         attribute), 264
                                                                attribute), 177
default_badge_template_id
                                                 (in- default_render_mode
                                                                                                         (in-
         dico.modules.categories.models.categories.Category
                                                                dico.modules.events.models.events.Event
         attribute), 264
                                                                attribute), 123
default_colors
                                                 (in- default_render_mode
         dico. modules. events. sessions. models. sessions. Session\\
                                                                dico.modules.events.papers.models.reviews.PaperReview
         attribute), 240
                                                                attribute), 199
default colors
                                                 (in- default_render_mode
                                                                                                         (in-
         dico.modules.events.timetable.models.breaks.Break
                                                                dico.modules.events.papers.models.revisions.PaperRevision
         attribute), 253
                                                                attribute), 201
default_contribution_duration
                                                 (in- default render mode
                                                                                                         (in-
         dico.modules.events.sessions.models.sessions.Session
                                                                dico.modules.events.sessions.models.sessions.Session
                                                                attribute), 240
default_data(indico.core.oauth.models.applications.SydtefireApplfypeender_mode
                                                                dico.modules.events.surveys.models.items.SurveyItem
         attribute), 307
default_data(indico.modules.events.layout.models.menu.MenuEattyildiixii), 248
         attribute), 184
                                                       default_render_mode
                                                                dico.modules.events.timetable.models.breaks.Break
default_event_settings
                                                 (in-
         dico.core.plugins.IndicoPlugin
                                           attribute),
                                                                attribute), 253
                                                       default_render_mode
                                                                                                         (in-
default_event_themes
                                                 (in-
                                                                dico.modules.events.tracks.models.tracks.Track
         dico.modules.categories.models.categories.Category
                                                                attribute), 259
         attribute), 264
                                                       default_session
                                                                                                         (in-
default_list_config
                                                 (in-
                                                                dico.modules.events.tracks.models.tracks.Track
         dico.modules.events.util.ListGeneratorBase
                                                                attribute), 259
         attribute), 139
                                                       default session id
                                                                                                         (in-
```

attribute), 259

```
default settings
                                                                                                                   delete all() (indico.modules.events.settings.EventSettingsProxy
                   dico.core.plugins.IndicoPlugin
                                                                                           attribute),
                                                                                                                                      method), 143, 206
                                                                                                                   delete_all() (indico.modules.users.models.settings.UserSettingsProxy
                                                                                                                                      method), 278
default settings
                                                                                                       (in-
                   dico.modules.events.payment.plugins.PaymentPluginaMixin category()
                                                                                                                                                                                                  module
                                                                                                                                                                                (in
                                                                                                                                                                                                                            in-
                                                                                                                                       dico.modules.categories.operations), 268
                   attribute), 209
default_settings
                                                                                                       (in-
                                                                                                                   delete_comment()
                                                                                                                                                                               (in
                                                                                                                                                                                                 module
                                                                                                                                                                                                                            in-
                   dico.modules.vc.plugins.VCPluginMixin
                                                                                                                                      dico.modules.events.papers.operations),
                   attribute), 315
default_sort_alpha
                                                                                                       (in- delete_comment_endpoint
                                                                                                                                                                                                                           (in-
                  dico.modules.events.abstracts.fields.AbstractPersonLinkList \emph{Hield} modules.events.abstracts.models.abstracts.Abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abs
                  attribute), 329
                                                                                                                                      attribute), 145
default_sort_alpha
                                                                                                       (in- delete_comment_endpoint
                                                                                                                                                                                                                           (in-
                  dico.modules.events.fields.PersonLinkListFieldBase
                                                                                                                                      dico. modules. events. models. reviews. Proposal Mixin\\
                  attribute), 328
                                                                                                                                      attribute), 134
default_ticket_template
                                                                                                                delete contribution()
                                                                                                                                                                                        (in
                                                                                                                                                                                                      module
                                                                                                                                                                                                                            in-
                                                                                                       (in-
                   dico.modules.categories.models.categories.Category
                                                                                                                                      dico.modules.events.contributions.operations),
                   attribute), 264
default_ticket_template_id
                                                                                                       (in- delete_event_label()
                                                                                                                                                                                      (in
                                                                                                                                                                                                     module
                                                                                                                                                                                                                            in-
                  dico.modules.categories.models.categories.Category
                                                                                                                                      dico.modules.events.operations), 138
                   attribute), 264
                                                                                                                   delete_paper_template()
                                                                                                                                                                                            (in
                                                                                                                                                                                                        module
                                                                                                                                                                                                                            in-
DEFAULT TIMEZONE (built-in variable), 57
                                                                                                                                       dico.modules.events.papers.operations), 203
default_user_settings
                                                                                                       (in-
                                                                                                                   delete_reference_type()
                                                                                                                                                                                            (in
                                                                                                                                                                                                        module
                                                                                                                                                                                                                            in-
                  dico.core.plugins.IndicoPlugin
                                                                                           attribute),
                                                                                                                                      dico.modules.events.operations), 138
                                                                                                                   delete_reviewing_question() (in module in-
{\tt defaults} \ (indico.modules.events.settings. Theme Settings Proxy
                                                                                                                                      dico.modules.events.operations), 138
                  attribute), 144, 206
                                                                                                                   delete_session()
                                                                                                                                                                              (in
                                                                                                                                                                                                                            in-
definition (indico.modules.events.agreements.models.agreementsdagrandendes.events.sessions.operations),
                   attribute), 166
                                                                                                                                       244
definition (indico.modules.events.requests.models.requests.Requestsession_block()
                                                                                                                                                                                          (in
                                                                                                                                                                                                       module
                                                                                                                                                                                                                            in-
                   attribute), 236
                                                                                                                                      dico.modules.events.sessions.operations),
delete()(indico.modules.categories.settings.CategorySettingsProx3/44
                   method), 270
                                                                                                                   delete subcontribution()
                                                                                                                                                                                            (in module
delete() (indico.modules.events.models.events.Event
                                                                                                                                      dico.modules.events.contributions.operations),
                  method), 123
delete()(indico.modules.events.notes.models.notes.EventNotete_timetable_entry() (in module in-
                   method), 190
                                                                                                                                       dico.modules.events.timetable.operations),
delete() (indico.modules.events.settings.EventSettingsProxy
                                                                                                                                       256
                  method), 143, 205
                                                                                                                   delete track()
                                                                                                                                                                          (in
                                                                                                                                                                                               module
                                                                                                                                                                                                                            in-
delete() (indico.modules.users.models.settings.UserSettingsProxydico.modules.events.tracks.operations), 261
                                                                                                                   delete_track_group()
                  method), 277
                                                                                                                                                                                      (in
                                                                                                                                                                                                     module
                                                                                                                                                                                                                            in-
delete() (indico.modules.vc.models.vc_rooms.VCRoomEventAssoalitiomodules.events.tracks.operations), 261
                                                                                                                   deleted (in module indico.core.signals.category), 82
                  method), 312
delete_abstract()
                                                                                                                   deleted (in module indico.core.signals.event), 84
                                                             (in
                                                                               module
                   dico.modules.events.abstracts.operations),
                                                                                                                   deleted(indico.modules.vc.models.vc_rooms.VCRoomStatus
                                                                                                                                      attribute), 314
delete_abstract_comment() (in module in-
                                                                                                                   description (indico.core.oauth.models.applications.OAuthApplication
                   dico.modules.events.abstracts.operations),
                                                                                                                                       attribute), 306
                                                                                                                   {\tt description} \ (indico. modules. attachments. models. attachments. Attachments
                   156
delete abstract files()
                                                                        (in
                                                                                                         in-
                                                                                                                                      attribute), 281
                   dico.modules.events.abstracts.operations),
                                                                                                                   description (indico.modules.attachments.models.folders.AttachmentFo
                   156
                                                                                                                                       attribute), 284
```

dico.modules.events.tracks.models.tracks.Track delete_all() (indico.modules.categories.settings.CategorySettingsPro.

method), 270

- description (indico.modules.designer.placeholders.CategosyTitleflaceholdero.modules.designer.placeholders.RegistrationPricePattribute), 323 attribute), 322
- description (indico.modules.designer.placeholders.EventDutesPlateholderdico.modules.designer.placeholders.RegistrationTicketQuattribute), 319

  attribute), 321
- description (indico.modules.designer.placeholders.EventDescriptionBta(ieldi)demodules.designer.placeholders.RegistrationTitlePlaattribute), 319

  attribute), 321
- description (indico.modules.designer.placeholders.EventLogaPlaceholdeindico.modules.events.abstracts.models.review_questions.attribute), 325 attribute), 153
- description (indico.modules.designer.placeholders.Event@rgTextPlaceholdero.modules.events.abstracts.placeholders.AbstractIDia attribute), 320 attribute), 159
- description (indico.modules.designer.placeholders.EventRoomPhtceholderdico.modules.events.abstracts.placeholders.AbstractInv attribute), 324 attribute), 160
- description (indico.modules.designer.placeholders.EventSpeakirstPlaceholdero.modules.events.abstracts.placeholders.AbstractSes attribute), 324 attribute), 160
- description (indico.modules.designer.placeholders.EventFitlePlaceholdeindico.modules.events.abstracts.placeholders.AbstractTitle attribute), 323 attribute), 159
- description (indico.modules.designer.placeholders.EventVenuePhaceboldindico.modules.events.abstracts.placeholders.AbstractTraattribute), 324 attribute), 160
- description (indico.modules.designer.placeholders.RegistrationiAnddressRladeholdedules.events.abstracts.placeholders.AbstractUR attribute), 323 attribute), 160
- description (indico.modules.designer.placeholders.RegistrationiAffilicatio(iRllicolmblahdes.events.abstracts.placeholders.CoAuthorsPattribute), 323 attribute), 161
- description (indico.modules.designer.placeholders.RegistrationAnaiomRladeholdens.events.abstracts.placeholders.Contributio attribute), 322 attribute), 164
- description (indico.modules.designer.placeholders.Registration@mintryPlandiduohdedules.events.abstracts.placeholders.Contributio attribute), 323 attribute), 164
- description (indico.modules.designer.placeholders.RegistrationEpnailEPlaceMichalenodules.events.abstracts.placeholders.EventTitleP attribute), 322 attribute), 159
- description (indico.modules.designer.placeholders.Regi**stration**FirstNam(inRlinachuldules.events.abstracts.placeholders.EventURLF attribute), 321 attribute), 159
- description (indico.modules.designer.placeholders.RegistrationFriendly(DHlaoeholldes.events.abstracts.placeholders.JudgmentCoattribute), 322 attribute), 164
- description (indico.modules.designer.placeholders.Regi**stration)FutliNorm(iNd)FirlaPldukhooksle**nts.abstracts.placeholders.PrimaryAut attribute), 320 attribute), 161
- description (indico.modules.designer.placeholders.Registrationi.FatlliNormandilioni.RedialeroestenBs.abstracts.placeholders.SubmitterFitattribute), 320 attribute), 162
- description (indico.modules.designer.placeholders.Registration)FutliNorm(iNd)FirlaRldukhookslenCs.abstracts.placeholders.SubmitterLaattribute), 321 attribute), 162
- description (indico.modules.designer.placeholders.Registrationi.FulliNorm(iNdiFiolarIdulerodelenD.abstracts.placeholders.SubmitterNorm(iNdiFiolarIdulerodelenD.abstracts.placeholders.SubmitterNorm(indico.modules.designer.placeholders.SubmitterNorm(indico.modules.designer.placeholders.SubmitterNorm(indico.modules.designer.placeholders.SubmitterNorm(indico.modules.designer.placeholders.SubmitterNorm(indico.modules.designer.placeholders.SubmitterNorm(indico.modules.designer.placeholders.SubmitterNorm(indico.modules.designer.placeholders.SubmitterNorm(indico.modules.designer.placeholders.SubmitterNorm(indico.modules.designer.placeholders.SubmitterNorm(indico.modules.designer.placeholders.SubmitterNorm(indico.modules.designer.placeholders.SubmitterNorm(indico.modules.designer.placeholders.SubmitterNorm(indico.modules.designer.placeholders.SubmitterNorm(indico.modules.designer.placeholders.SubmitterNorm(indico.modules.designer.placeholders.SubmitterNorm(indico.modules.designer.placeholders.SubmitterNorm(indico.modules.designer.placeholders.SubmitterNorm(indico.modules.designer.placeholders.designer.placeholders.designer.placeholders.designer.placeholders.designer.placeholders.designer.placeholders.designer.placeholders.designer.placeholders.designer.placeholders.designer.placeholders.designer.placeholders.designer.placeholders.designer.placeholders.designer.placeholders.designer.placeholders.designer.placeholders.designer.placeholders.designer.placeholders.designer.placeholders.designer.placeholders.designer.placeholders.designer.placeholders.designer.placeholders.designer.placeholders.designer.placeholders.designer.placeholders.designer.placeholders.designer.placeholders.designer.placeholders.designer.placeholders.designer.placeholders.designer.placeholders.designer.placeholders.designer.placeholders.designer.placeholders.designer.placeholders.designer.placeholders.designer.placeholders.designer.placeholders.designer.placeholders.designer.placeholders.designer.placeholders.designer.placeholders.designer.placeholders.
- description (indico.modules.designer.placeholders.RegistrationiFutliNormaRthiceholders.events.abstracts.placeholders.SubmitterTiattribute), 320 attribute), 162
- description (indico.modules.designer.placeholders.Registrationi.FutliNorm(iRdicelmbdarlBs.events.abstracts.placeholders.TargetAbstrattribute), 320 attribute), 162
- description (indico.modules.designer.placeholders.RegistrationFatliNorm@iRtliceholders.abstracts.placeholders.TargetAbstrattribute), 320 attribute), 163
- description (indico.modules.designer.placeholders.RegistrationiFptllNorm@RllicolmbldhrlDs.events.abstracts.placeholders.TargetSubmattribute), 321 attribute), 163
- description (indico.modules.designer.placeholders.Registration/LatsiNam/aRdiacehobderles.events.abstracts.placeholders.TargetSubmattribute), 321 attribute), 163
- description (indico.modules.designer.placeholders.RegistrationPlanePlandioldenodules.events.abstracts.placeholders.TargetSubmattribute), 323 attribute), 163
- description (indico.modules.designer.placeholders.RegistrationPladidnohdedules.events.agreements.placeholders.Agreement attribute), 323 attribute), 168

```
description (indico.modules.events.agreements.placeholders.PersonNan(endianeholders.events.registration.placeholders.registratio
                                                                                                                                                                                         attribute), 231
                          attribute), 168
description (indico.modules.events.contributions.models.fistlds.iGontributionHielthodules.networks.models.networks.IPNetworkGro
                          attribute), 172
                                                                                                                                                                                         attribute), 325
description (indico.modules.events.contributions.models.aspers.Contributionalispernodules.search.result_schemas.ContributionResult
                          attribute), 179
                                                                                                                                                                                         attribute), 71
description (indico.modules.events.papers.models.reviewequestions.BaplanklevieumQduelsissearch.result_schemas.EventResultSchem
                          attribute), 197
                                                                                                                                                                                         attribute), 71
description (indico.modules.events.papers.models.templates:PaperTemplatdico.modules.search.result_schemas.HighlightSchema
                          attribute), 202
                                                                                                                                                                                         attribute), 73
description (indico.modules.events.persons.placeholde Exelainaj Pela Jahalgke File
                                                                                                                                                                                                                                                     (class
                                                                                                                                                                                                                                                                                      in
                                                                                                                                                                                                                                                                                                               in-
                                                                                                                                                                                         dico.modules.designer.models.images), 316
                          attribute), 210
description (indico.modules.events.persons.placeholdeDseExientLinkPlaceholder
                                                                                                                                                                                                                                               (class
                                                                                                                                                                                                                                                                                                               in-
                          attribute), 211
                                                                                                                                                                                         dico.modules.designer.pdf), 318
{\tt description} \ (\textit{indico.modules.events.persons.placeholde} \\ \textbf{\textit{Exientitle}} \\ \textbf{\textit{Placeholde}} \\ \textbf{\textit{rescaleholde}} \\ \textbf{\textit{resca
                                                                                                                                                                                                                                                  (class
                                                                                                                                                                                                                                                                                     in
                                                                                                                                                                                                                                                                                                               in-
                          attribute), 211
                                                                                                                                                                                         dico.modules.designer.models.templates),
description (indico.modules.events.persons.placeholders.FirstNamePlaceholder
                                                                                                                                                              details_url (indico.modules.rb.models.rooms.Room
                         attribute), 211
description (indico.modules.events.persons.placeholders.LastNamutFloute), placeholders.
                          attribute), 211
                                                                                                                                                              DISABLE_CELERY_CHECK (built-in variable), 52
description (indico.modules.events.persons.placeholders:Register_iptkBtaeeholder_mode
                                                                                                                                                                                                                                                                                                             (in-
                                                                                                                                                                                        dico.modules.events.tracks.models.tracks.Track
                          attribute), 212
description (indico.modules.events.registration.models.form_fieldstRidgise)anon-field
                                                                                                                                                              \verb|disabled| (indico.modules.categories.models.categories.EventMessageModels.categories.EventMessageModels.categories.EventMessageModels.categories.EventMessageModels.categories.EventMessageModels.categories.EventMessageModels.categories.EventMessageModels.categories.EventMessageModels.categories.EventMessageModels.categories.EventMessageModels.categories.EventMessageModels.categories.EventMessageModels.categories.EventMessageModels.categories.EventMessageModels.categories.EventMessageModels.categories.EventMessageModels.categories.EventMessageModels.categories.EventMessageModels.categories.EventMessageModels.categories.EventMessageModels.categories.EventMessageModels.categories.EventMessageModels.categories.EventMessageModels.categories.EventMessageModels.categories.EventMessageModels.categories.EventMessageModels.categories.EventMessageModels.Categories.EventMessageModels.Categories.EventMessageModels.Categories.EventMessageModels.Categories.EventMessageModels.Categories.EventMessageModels.Categories.EventMessageModels.Categories.EventMessageModels.Categories.EventMessageModels.Categories.EventMessageModels.Categories.EventMessageModels.Categories.EventMessageModels.Categories.EventMessageModels.Categories.EventMessageModels.Categories.EventMessageModels.Categories.EventMessageModels.Categories.EventMessageModels.Categories.EventMessageModels.Categories.EventMessageModels.Categories.EventMessageModels.Categories.EventMessageModels.Categories.EventMessageModels.Categories.EventMessageModels.Categories.EventMessageModels.Categories.EventMessageModels.Categories.EventMessageModels.Categories.EventMessageModels.Categories.EventMessageModels.Categories.EventMessageModels.Categories.EventMessageModels.Categories.EventMessageModels.Categories.EventMessageModels.Categories.EventMessageModels.Categories.EventMessageModels.Categories.EventMessageModels.Categories.EventMessageModels.Categories.EventMessageModels.Categories.EventMessageModels.Categories.EventMessageModels.Categories.EventMessageModels.Categories.EventMe
                          attribute), 217
description (indico.modules.events.registration.models.form_fieldstRidgise)allonFormPersonalDataField
                          attribute), 218
                                                                                                                                                              disabled_sections
description (indico.modules.events.registration.models.items.Registrationform.registration.models.forms.RegistrationForm
                          attribute), 223
                                                                                                                                                                                         attribute), 219
description (indico.modules.events.registration.models.dtems.RegistrationFormBeriannalDataSection
                                                                                                                                                                                                                                                                                                             (in-
                          attribute), 225
                                                                                                                                                                                         dico.modules.categories.models.categories.Category
description (indico.modules.events.registration.models.items.RegistribiateFormSection
                          attribute), 225
                                                                                                                                                              disallowed_protection_modes
                                                                                                                                                                                                                                                                                                             (in-
description (indico.modules.events.registration.models.items.RegistrationIndemTexts.contributions.models.contributions.Contribu
                          attribute), 226
                                                                                                                                                                                         attribute), 170
description (indico.modules.events.registration.placeholders.hivitations.FirstNooniaPlaceholders
                                                                                                                                                                                        dico.modules.events.contributions.models.principals.Contribution
                         attribute), 231
description (indico.modules.events.registration.placeholders.invitatiohstb) yitationLinkPlaceholder
                          attribute), 232
                                                                                                                                                              disallowed_protection_modes
                                                                                                                                                                                                                                                                                                             (in-
description (indico.modules.events.registration.placeholders.invititions.ddskt/samenPkundhdkkeevents.Event
                                                                                                                                                                                        attribute), 123
                          attribute), 232
description (indico.modules.events.registration.placeholders.hegistrations:EtenthinkPlaneholder
                                                                                                                                                                                                                                                                                                            (in-
                          attribute), 229
                                                                                                                                                                                         dico.modules.events.sessions.models.principals.SessionPrincipal
description (indico.modules.events.registration.placeholders.registratibonus)EventTitlePlaceholder
                          attribute), 229
                                                                                                                                                              disallowed_protection_modes
                                                                                                                                                                                                                                                                                                             (in-
description (indico.modules.events.registration.placeholders.registications.ltlies/divents.lsokdions.models.sessions.Session
                          attribute), 230
                                                                                                                                                                                         attribute), 240
{\tt description} \ (\textit{indico.modules.events.registration.placeholders. \texttt{helgistreatiops:Ehrst NaimeR} \underline{\textit{lancholders.}} \\ \\ \textbf{eta} \ (\textit{indico.modules.events.registration.placeholders. \texttt{helgistreatiops:Ehrst NaimeR} \underline{\textit{lancholders.}} \\ \textbf{eta} \ (\textit{indico.modules.events.registration.placeholders.}) \\ \textbf{eta} \ (\textit{indico.modules.events.registration.placeholders.events.registration.placeholders.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events
                                                                                                                                                                                                                                                                                                             (in-
                                                                                                                                                                                        dico.modules.rb.models.rooms.Room attribute),
                          attribute), 230
{\tt description}\ (indico. modules. events. registration. placeholders. registrations. IDP laceholder
                          attribute), 230
                                                                                                                                                              display_as_section
description (indico.modules.events.registration.placeholders.registications/likesteventsPlacetevelobeodels.items.SurveyItem
                         attribute), 231
                                                                                                                                                                                        attribute), 248
description (indico.modules.events.registration.placeholdern hegistrationsebink Blaceholder
                                                                                                                                                                                                                                                                                                             (in-
                          attribute), 231
                                                                                                                                                                                         dico.modules.events.surveys.models.items.SurveyQuestion
```

```
attribute), 249
                                                                                                                                                                                    duplicate (indico.modules.events.abstracts.models.abstracts.AbstractPu
                                                                                                                                                                                                                   attribute), 147
                                                                                                                                                                  (in-
display_as_section
                              dico.modules.events.surveys.models.items.SurveySactionicate (indico.modules.events.abstracts.models.abstracts.AbstractStates)
                             attribute), 249
                                                                                                                                                                                                                   attribute), 147
display_as_section
                                                                                                                                                                  (in- duplicate_of (indico.modules.events.abstracts.models.abstracts.Abstra
                              dico.modules.events.surveys.models.items.SurveyText
                                                                                                                                                                                                                   attribute), 145
                             attribute), 250
                                                                                                                                                                                    duplicate of id
                                                                                                                                                                                                                                                                                                                                                       (in-
display_full_name
                                                                                                                                                                  (in-
                                                                                                                                                                                                                   dico.modules.events.abstracts.models.abstracts.Abstract
                              dico.modules.events.registration.models.registrations.Registrationute), 145
                                                                                                                                                                                    \verb|duration| (indico.modules.events.contributions.models.contributions.Contributions)| |
                             attribute), 213
display_full_name
                                                                                                                                                                  (in-
                                                                                                                                                                                                                    attribute), 170
                             dico.modules.users.models.users.PersonMixin
                                                                                                                                                                                     duration (indico.modules.events.contributions.models.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subcontributions.subc
                             attribute), 271
                                                                                                                                                                                                                   attribute), 177
display_order
                                                                                                                                                                                 duration (indico.modules.events.models.events.Event
                                                                                                                                                                  (in-
                             dico.modules.events.abstracts.models.persons.AbstractPersatLiiblate), 123
                             attribute), 152
                                                                                                                                                                                     \verb|duration| (indico.modules.events.sessions.models.blocks.SessionBlock|)|
                                                                                                                                                                  (in-
                                                                                                                                                                                                                   attribute), 242
display_order
                              dico.modules.events.contributions.models.personscContributioniPeliscombindsules.events.timetable.models.breaks.Break
                             attribute), 174
                                                                                                                                                                                                                   attribute), 253
display_order
                                                                                                                                                                  (in-duration (indico.modules.events.timetable.models.entries.TimetableEntr
                             dico.modules.events.contributions.models.persons.SubContributPer354Link
                                                                                                                                                                                     \verb|duration| (indico.modules.events.time table.reschedule.RescheduleMode|
                             attribute), 175
                                                                                                                                                                  (in-
                                                                                                                                                                                                                    attribute), 258
display_order
                              dico.modules.events.models.persons.EventPersonLinkcation (indico.modules.search.result\_schemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas.ContributionResultSchemas
                                                                                                                                                                                                                   attribute), 71
                             attribute), 129
display_order
                                                                                                                                                                  (in- duration_display
                              dico. modules. events. models. persons. Person Link Base\\
                                                                                                                                                                                                                   dico.modules.events.contributions.models.contributions.Contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.c
                             attribute), 130
                                                                                                                                                                                                                    attribute), 170
                                                                                                                                                                  (in- duration_poster
display_order
                                                                                                                                                                                                                                                                                                                                                        (in-
                             dico.modules.events.sessions.models.persons.SessionBlockPdisombindkales.events.contributions.models.contributions.Contribu
                             attribute), 243
                                                                                                                                                                                                                   attribute), 170
display_order_key
                                                                                                                                                                   (in-
                              dico.modules.events.models.persons.PersonLinkBoxe
                             attribute), 130
                                                                                                                                                                                     earliest date
                                                                                                                                                                                                                                                                                                                                                        (in-
display_order_key_lastname
                                                                                                                                                                  (in-
                                                                                                                                                                                                                   dico.web.forms.fields.IndicoDateField
                                                                                                                                                                                                                                                                                                                                                          at-
                             dico.modules.events.models.persons.PersonLinkBase
                                                                                                                                                                                                                   tribute), 345
                             attribute), 130
                                                                                                                                                                                     earliest_dt (indico.web.forms.fields.IndicoDateTimeField
display_tzinfo
                                                                                                                                                                  (in-
                                                                                                                                                                                                                   attribute), 340
                              dico.modules.categories.models.categories.Categoryit_comment_endpoint
                                                                                                                                                                                                                                                                                                                                                        (in-
                             attribute), 264
                                                                                                                                                                                                                   dico.modules.events.abstracts.models.abstracts.Abstract
display_tzinfo
                                                                                                                                                                  (in-
                                                                                                                                                                                                                    attribute), 145
                              dico.modules.events.models.events.Event
                                                                                                                                                                                                                                                                                                                                                        (in-
                                                                                                                                                                                    edit_comment_endpoint
                             attribute), 123
                                                                                                                                                                                                                   dico.modules.events.models.reviews.ProposalMixin
division (indico.modules.rb.models.rooms.Room at-
                                                                                                                                                                                                                    attribute), 134
                             tribute), 290
                                                                                                                                                                                     edit logs (indico.modules.rb.models.reservations.Reservation
DoublePaymentTransaction, 207
                                                                                                                                                                                                                    attribute), 297
download_url(indico.modules.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.attachments.models.atta
                                                                                                                                                                                                                   dico.modules.events.abstracts.models.abstracts.Abstract
download_url(indico.modules.designer.models.images.DesignerImaggfiile), 145
                              attribute), 317
                                                                                                                                                                                      edit review endpoint
                                                                                                                                                                                                                                                                                                                                                        (in-
                  (indico.modules.users.models.users.User Title\\
                                                                                                                                                                                                                   dico.modules.events.models.reviews.ProposalMixin
                              tribute), 276
                                                                                                                                                                                                                    attribute), 134
dump()
                                         (indico.modules.search.base.SearchOptions
                                                                                                                                                                                    edit_track_mode
                                                                                                                                                                                                                                                                                                                                                        (in-
                             method), 70
                                                                                                                                                                                                                    dico.modules.events.abstracts.models.abstracts.Abstract
```

	attribute), 145					337			
edital	ole_types			(in-	EmailP.	laceholder	(class	in	in-
	dico.modules.events.n attribute), 123	nodels.events	s.Event			dico.modules.ever	nts.persons.pla	ceholders	),
Edital	oleFileField	(class	in	in-	EmailR		(class	in	in-
	dico.web.forms.fields)	•				dico.modules.evei	*		
EditT:	rackMode (cla		in	in-	EmailR	uleListField	(class	in	in-
	dico.modules.events.a					dico.modules.ever	•		
	148			,,,		(indico.modules.e			.EventLogRealm
effect	tive_icon_url			(in-		attribute), 188			,
	dico.modules.categori	ies.models.ca	ategories	•	<b>∂</b> ENABLE		(built-in varial	ble), 57	
	attribute), 264					d_editables	(	,,,	(in-
email	(indico.modules.attachn	nents.models	s.principa	als.Att			nts.contribution	ns.models.	`
	attribute), 286					attribute), 170			
email	(indico.modules.attachn	nents.models	s.principa	als.Att	a <b>ehm</b> lend <b>B</b> r	* * * * * * * * * * * * * * * * * * * *	s.rb.models.blo	ockings.Bl	ocking
	attribute), 287					attribute), 294			
email	(indico.modules.auth.m	odels.registr	ation red	auests.	Registrați	* * * * * * * * * * * * * * * * * * * *	vents.abstracts.	.models.co	all for abstracts.CallF
011104	attribute), 303	0 4 6 7 5 7 7 6 7 5 7 7		1	1 C G	attribute), 148			
email	(indico.modules.categor	ries.models.r	principal	s.Cate	genværinte i		vents.contribut	ions.mode	els.contributions.Contri
	attribute), 267				5	attribute), 170			
email	(indico.modules.events.e	contributions	s.models.	princi	in <del>al</del> scContr	* * * * * * * * * * * * * * * * * * * *	vents.models.e	vents.Ever	nt at-
011104	attribute), 176		om to the lot	.p. titet	parso <u>c</u> oso.	tribute), 123	, emanue de case	,	
email	(indico.modules.events.i	models.perso	ons.Even	tPerso:	nend dt	* *	vents.papers.m	odels.call	for papers CallForPa
011104	attribute), 128	oue.s.perse	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			attribute), 193	entistpuperstill		_j =p ap e . s . e a
email	(indico.modules.events.i	models.perso	ons.Perso	onLink	Rensed at	* * * * * * * * * * * * * * * * * * * *	vents registratio	on models	forms RegistrationFor
011104	attribute), 130	oue.s.perse				attribute), 219			.jorsiztegisir amonz ori
email	(indico.modules.events.	models.princ	cinals Ev	entPri	neimal dt	* * * * * * * * * * * * * * * * * * * *	vents sessions i	nodels.blo	ocks.SessionBlock
	attribute), 130		· F			attribute), 242			
email	(indico.modules.events.i	models.settir	ıgs.Eveni	tSettin	e <b>₽rio</b> tciotal	* * * * * * * * * * * * * * * * * * * *	vents.sessions.i	nodels.ses	ssions.Session
011104	attribute), 136				62114 <u>0.</u> pu.	attribute), 240			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
email	(indico.modules.events.	registration.i	models ir	witatio	nes Registr	* * * * * * * * * * * * * * * * * * * *	vents.survevs.n	nodels.sur	vevs.Survev
011104	attribute), 222			., ., ., .,	7.022.025	attribute), 246			, , , , , , , , , , , , , , , , , , , ,
email	(indico.modules.events.	registration.i	models.it	ems.Pe	e <b>rson</b> aliDa	* * * * * * * * * * * * * * * * * * * *	vents timetable	models.b	reaks.Break
011104	attribute), 223					attribute), 253		·····oucioio	
email	(indico.modules.events.	registration.i	models.re	egistra	tiens Rebi	* * * * * * * * * * * * * * * * * * * *	vents timetable	.models.ei	ntries.TimetableEntry
CIIIGII	attribute), 213	egisir aironi.	noue is.re	5815114	11011111 <u>11</u> 0g1	attribute), 254		.models.ci	ur tes.1 interacte Entir y
email	(indico.modules.events	sessions.mod	dels.prino	cipals	SessionPri	* *	b.models.reserv	vation occ	currences.ReservationO
	attribute), 243		r	1		attribute), 300			
email	(indico.modules.events.	tracks.model	ls.princip	als.Tr			b.models.reserv	ations.Re	servation
	attribute), 260		~· <i>F</i> · · · · · · <i>F</i>			attribute), 297			
email	(indico.modules.rb.mod	els.blocking	principa	als.Blo	ckina Prin	* * * * * * * * * * * * * * * * * * * *	b.models.room	nonbook	able periods.NonBooka
	attribute), 295		_r _r .		<u>6=</u>	attribute), 293	_		
email	(indico.modules.users.	models.emai	ils.UserE	Email	end dt.		earch.result_sc	hemas.Co	ntributionResultScheme
	attribute), 276					attribute), 71			
email	(indico.modules.user	s.models.use	rs.User	at-	end dt.	(indico.modules.se	earch.result_sc	hemas.Ev	entResultSchema
	tribute), 272					attribute), 71			
email	_added (in module indi	ico.core.sign	als.users	3), 90	end dt.	_display			(in-
	_template			(in-	0114_40_		nts.contribution	ns.models.	.contributions.Contribu
	_cemp1ace dico.modules.events.a	bstracts.mod	dels.emai	`	.AbstractF				
	attribute), 150			00		_display			(in-
email	_template_id			(in-	2	_arspray dico.modules.evei	nts.models.ever	ıts.Event	<b>\</b>
	_cemp1ace_1a dico.modules.events.a	bstracts.mod	dels.emai		.AbstractF				
	attribute), 150			00		_local(indico.m	odules,events	models.ev	ents.Event
Email	ListField (class in	indico web	forms fie	olds)		attribute) 123			

```
end dt override
                                                                                                                                                                          event (indico.modules.events.contributions.models.fields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionFields.ContributionF
                            dico.modules.events.models.events.Event
                                                                                                                                                                                                         attribute), 172
                            attribute), 123
                                                                                                                                                                            event (indico.modules.events.contributions.models.subcontributions.SubC
end_dt_poster
                                                                                                                                                          (in-
                                                                                                                                                                                                        attribute), 177
                            dico.modules.events.contributions.models.contributions.t/(imit/ibatinoodules.events.contributions.models.types.ContributionTyp
                            attribute), 170
                                                                                                                                                                                                        attribute), 179
end_notification_daily
                                                                                                                                                          (in-
                                                                                                                                                                           event (indico.modules.events.fields.EventPersonListField
                            dico.modules.rb.models.rooms.Room attribute),
                                                                                                                                                                                                         attribute), 327
                             290
                                                                                                                                                                            event (indico.modules.events.layout.models.images.ImageFile
end_notification_monthly
                                                                                                                                                          (in-
                                                                                                                                                                                                        attribute), 182
                            dico.modules.rb.models.rooms.Room attribute),
                                                                                                                                                                           event (indico.modules.events.layout.models.menu.EventPage
                             290
                                                                                                                                                                                                         attribute), 183
end_notification_sent
                                                                                                                                                                           event (indico.modules.events.layout.models.menu.MenuEntry
                                                                                                                                                          (in-
                            dico.modules.rb.models.reservations.Reservation
                                                                                                                                                                                                         attribute), 183
                            attribute), 298
                                                                                                                                                                            event (indico.modules.events.logs.models.entries.EventLogEntry
end_notification_weekly
                                                                                                                                                          (in-
                                                                                                                                                                                                         attribute), 187
                            dico.modules.rb.models.rooms.Room attribute),
                                                                                                                                                                           event (indico.modules.events.logs.models.entries.EventLogRealm
                                                                                                                                                                                                        attribute), 188
end_notifications_enabled
                                                                                                                                                                                                     (indico.modules.events.models.events.Event at-
                                                                                                                                                          (in-
                                                                                                                                                                           event
                            dico.modules.rb.models.rooms.Room attribute),
                                                                                                                                                                                                        tribute), 123
                                                                                                                                                                           event (indico.modules.events.models.persons.EventPerson
end_time(indico.modules.rb.models.room_bookable_hours.Bookabdethibuuts), 128
                            attribute), 293
                                                                                                                                                                            event (indico.modules.events.models.settings.EventSetting
endpoint (indico.modules.events.util.ListGeneratorBase
                                                                                                                                                                                                        attribute), 135
                            attribute), 139
                                                                                                                                                                            event (indico.modules.events.models.settings.EventSettingPrincipal
ends_after() (indico.modules.events.models.events.Event
                                                                                                                                                                                                        attribute), 136
                                                                                                                                                                            event (indico.modules.events.models.settings.EventSettingsMixin
                            method), 123
enforced_data
                                                                                                                                                          (in-
                                                                                                                                                                                                         attribute), 136
                            dico.core.oauth.models.applications.SystemAppType ent (indico.modules.events.models.static_list_links.StaticListLink
                            attribute), 307
                                                                                                                                                                                                        attribute), 137
entry_changed (in module indico.core.signals.acl), event (indico.modules.events.notes.models.notes.EventNote
                                                                                                                                                                                                         attribute), 190
entry_parent (indico.modules.events.util.ListGeneratorBusent (indico.modules.events.papers.fields.PaperEmailSettingsField
                            attribute), 139
                                                                                                                                                                                                        attribute), 333
                                                                                 (class
                                                                                                                                                                           event (indico.modules.events.papers.models.competences.PaperCompeter
EquipmentType
                            dico.modules.rb.models.equipment), 295
                                                                                                                                                                                                        attribute), 195
Event (class in indico.modules.events.models.events),
                                                                                                                                                                         event (indico.modules.events.papers.models.papers.Paper
                                                                                                                                                                                                         attribute), 196
\verb|event| (indico.modules.attachments.models.folders.AttachmentEvldandico.modules.events.papers.models.review\_questions.PaperReview\_tolders.attachments.models.folders.Attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folders.attachmente.folder
                            attribute), 284
                                                                                                                                                                                                        attribute), 197
event (indico.modules.designer.models.templates.Designer.Femplatendico.modules.events.papers.models.templates.PaperTemplate
                             attribute), 317
                                                                                                                                                                                                         attribute), 202
event (indico.modules.events.abstracts.fields.AbstractFieldevent (indico.modules.events.registration.models.forms.RegistrationForm
                            attribute), 328
                                                                                                                                                                                                         attribute), 219
event (indico.modules.events.abstracts.models.abstracts.Abstracts.Abstracts.indico.modules.events.registration.models.registrations.Registratio
                             attribute), 145
                                                                                                                                                                                                         attribute), 213
event (indico.modules.events.abstracts.models.email_templates.Abstracts.models.reminders.email_templates.Abstracts.models.reminders.email_templates.Abstracts.reminders.email_templates.abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.abstracts.models.email_templates.abstracts.models.email_templates.abstracts.models.email_templates.abstracts.models.email_templates.abstracts.models.email_templates.abstracts.models.email_templates.abstracts.models.email_templates.abstracts.models.email_templates.abstracts.models.email_templates.abstracts.models.email_templates.abstracts.models.email_templates.abstracts.models.email_templates.abstracts.models.email_templates.abstracts.models.email_templates.abstracts.models.email_templates.abstracts.models.email_templates.abstracts.models.email_templates.abstracts.models.email_templates.abstracts.models.email_templates.abstracts.models.email_templates.abstracts.models.email_templates.abstracts.models.email_templates.abstracts.models.email_templates.abstracts.models.email_templates.abstracts.models.email_templates.abstracts.models.email_templates.abstracts.models.email_templates.abstracts.models.email_templates.abstracts.models.email_templates.abstracts.models.email_templates.abstracts.models.email_templates.abstracts.mode
                            attribute), 150
                                                                                                                                                                                                        attribute), 235
event (indico.modules.events.abstracts.models.review_questiontstAlintlicatNewikulaQuextinonrequests.models.requests.Request
                            attribute), 153
                                                                                                                                                                                                         attribute), 236
event (indico.modules.events.agreements.models.agreements.Agreements.Agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreemen
                            attribute), 166
                                                                                                                                                                                                        attribute), 242
event (indico.modules.events.contributions.models.contributionst.Qindicouniodules.events.sessions.models.sessions.Session
                            attribute), 170
                                                                                                                                                                                                         attribute), 240
```

attribute), 150

attribute), 153

attribute), 166

attribute), 170

attribute), 173

event (indico.modules.events.static.models.staticSitevent_id (indico.modules.events.layout.models.menu.EventPage attribute), 262 attribute), 183 event (indico.modules.events.surveys.models.surveys.Surveysent_id (indico.modules.events.layout.models.menu.MenuEntry attribute), 246 attribute), 183  $\verb|event| (indico.modules.events.timetable.models.breaks.Breakvent_id (indico.modules.events.logs.models.entries.EventLogEntry)| \\$ attribute), 253 attribute), 187  $\verb|event| (indico.modules.events.timetable.models.entries.Timetablet \underline{Entrop} (indico.modules.events.models.persons.EventPerson) \\$ attribute), 254 attribute), 128 event (indico.modules.events.tracks.models.tracks.Track event_id (indico.modules.events.models.persons.EventPersonLink attribute), 259 attribute), 129 (indico.modules.events.util.ListGeneratorBase event_id (indico.modules.events.models.principals.EventPrincipal event attribute), 139 attribute), 130  $\verb|event| (indico.modules.rb.models.reservations.Reservation \verb|event_id| (indico.modules.events.models.references.EventReferences) | \\$ attribute), 131 attribute), 298 event (indico.modules.rb.models.reservations.ReservationEinkent_id (indico.modules.events.models.settings.EventSetting attribute), 299 attribute), 135 (indico.modules.search.base.SearchTarget event_id (indico.modules.events.models.settings.EventSettingPrincipal event attribute), 136 attribute), 70 event (indico.modules.vc.models.vc_rooms.VCRoomEventAssectation (indico.modules.events.models.settings.EventSettingsMixin attribute), 313 attribute), 136  $\verb|event| (indico.modules.vc.models.vc_rooms.VCRoomLinkTypent_id(indico.modules.events.models.static_list_links.StaticListLink)| \\$ attribute), 313 attribute), 137 event_backref_name (in- event_id (indico.modules.events.notes.models.notes.EventNote dico.modules.events.abstracts.models.review_questions.Abstrateileenergy @Question attribute), 153 event_id(indico.modules.events.papers.models.competences.PaperCom event_backref_name (inattribute), 195 dico.modules.events.papers.models.review_questions:PaperReview@questionles.events.papers.models.review_questions.Paperl attribute), 197 attribute), 197 event_id(indico.modules.events.papers.models.templates.PaperTemplate event_creation_notification_emails (indico.modules.categories.models.categories.Category attribute), 202 attribute), 264 event_id(indico.modules.events.registration.models.forms.RegistrationF event_creation_restricted (inattribute), 219  $dico.modules.categories.models.categories.Categoryent_id(indico.modules.events.registration.models.registrations.Registrations.Registration.models.registrations.Registrations.Registrations.Registration.models.registrations.Registrations.Registrations.Registration.models.registrations.Registrations.Registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.regis$ attribute), 264 attribute), 213 event_id (indico.modules.attachments.models.folders.AttachmentFoldandico.modules.events.reminders.models.reminders.EventRem attribute), 284 attribute), 235 event_id (indico.modules.designer.models.templates.Designer.femplatendico.modules.events.requests.models.requests.Request attribute), 317 attribute), 236 event_id (indico.modules.events.abstracts.models.abstracts.Abstracts.Abstracts.indico.modules.events.sessions.models.sessions.Session attribute), 145 attribute), 240

attribute), 179 attribute), 72
event_id (indico.modules.events.layout.models.images.IneageFile_id (indico.modules.search.result_schemas.ContributionResultSche
attribute), 182 attribute), 71

event_id (indico.modules.events.contributions.models.types.contributionallypenodules.search.result_schemas.AttachmentResultSchem

event_id (indico.modules.events.agreements.models.agreements.Agreements.hagreements.timetable.models.entries.TimetableEntr

event id (indico.modules.events.abstracts.models.email & Alistudict Emodil Thess placetes.static.models.static.Static Static Sta

event_id (indico.modules.events.abstracts.models.review<u>e</u>questioniscAlinthiaatRevibula@uexationsurveys.models.surveys.Survey

event_id (indico.modules.events.contributions.models.comtributions.dindicbumodules.events.tracks.models.tracks.Track

event_id (indico.modules.events.contributions.models.fields.Gontribu(indFieldhodules.rb.models.reservations.ReservationLink

attribute), 262

attribute), 246

attribute), 254

attribute), 259

attribute), 299

```
event id (indico.modules.search.result schemas.EventNeteResultSchemaid
                                                                                                                                                                     (in-
              attribute), 73
                                                                                                     dico.modules.events.models.principals.EventPrincipal
event id (indico.modules.search.result schemas.EventResultSchemattribute), 131
              attribute), 71
                                                                                       event role id
                                                                                                                                                                     (in-
event_id (indico.modules.vc.models.vc_rooms.VCRoomEventAssoalitiomodules.events.models.settings.EventSettingPrincipal
              attribute), 313
                                                                                                     attribute), 136
event log entries
                                                                              (in-
                                                                                       event role id
              dico.modules.users.models.users.User
                                                                               at-
                                                                                                     dico.modules.events.sessions.models.principals.SessionPrincipal
              tribute), 273
                                                                                                     attribute), 243
event_message
                                                                              (in-
                                                                                      event_role_id
                                                                                                                                                                     (in-
              dico.modules.categories.models.categories.Category
                                                                                                     dico.modules.events.tracks.models.principals.TrackPrincipal
              attribute), 264
                                                                                                     attribute), 261
event_message_mode
                                                                              (in-
                                                                                      event role id
                                                                                                                                                                     (in-
              dico.modules.categories.models.categories.Category
                                                                                                     dico.modules.rb.models.blocking_principals.BlockingPrincipal
                                                                                                     attribute), 295
              attribute), 264
event_note(indico.modules.search.base.SearchTarget event_roles(indico.modules.events.abstracts.fields.TrackRoleField
                                                                                                     attribute), 331
              attribute), 70
event_notes_revisions
                                                                                      event_settings (indico.core.plugins.IndicoPlugin
                                                                              (in-
              dico.modules.users.models.users.User
                                                                                                     attribute), 77
                                                                               at-
              tribute), 273
                                                                                       event settings converters
                                                                                                                                                                     (in-
event_or_id()
                                        (in
                                                        module
                                                                               in-
                                                                                                     dico.core.plugins.IndicoPlugin
                                                                                                                                                           attribute),
              dico.modules.events.settings), 144, 206
event_ref(indico.modules.events.layout.models.menu.MemtEntryMixinings_form
                                                                                                                                                                     (in-
                                                                                                     dico.modules.events.payment.plugins.PaymentPluginMixin
              attribute), 184
\verb|event_role| (indico.modules.attachments.models.principals.Attachmentilifiala)| event_role| (indico.modules.attachmentilifiala)| event_role| (indico.modules.attachmentilifiala)| event_role| (indico.modules.attachmentilifiala)| event_role| (indico.modules.attachmentilifiala)| event_role| (indico.modules.attachmentilifiala)| (indico.modules.at
              attribute), 286
                                                                                       event start delta
event_role (indico.modules.attachments.models.principals.Attachdiiant.Prindailpalevents.reminders.models.reminders.EventReminder
                                                                                                     attribute), 235
              attribute), 287
event_role (indico.modules.categories.models.principala Category Principalico.modules.search.result_schemas.EventResultSchema
              attribute), 267
                                                                                                     attribute), 71
event_role (indico.modules.events.contributions.models priemapals I Pandribution Principals
                                                                                                                                                                      in-
              attribute), 176
                                                                                                     dico.modules.events.settings), 142, 204
event_role (indico.modules.events.models.principals.Event@riuDiptalesPlaceholder
                                                                                                                                            (class
                                                                                                                                                                      in-
                                                                                                     dico.modules.designer.placeholders), 319
              attribute), 130
event role (indico.modules.events.models.settings.EventSettingsPeincipabtionPlaceholder (class in in-
                                                                                                     dico.modules.designer.placeholders), 319
              attribute), 136
event role (indico.modules.events.sessions.models.principals.$\text{Ession}\text{Principals}\text{lder}
                                                                                                                                                                      in-
              attribute), 243
                                                                                                     dico.modules.events.persons.placeholders),
event role (indico.modules.events.tracks.models.principals.TrackPtihcipal
                                                                                      EventLinkPlaceholder
              attribute), 261
                                                                                                                                           (class
event_role (indico.modules.rb.models.blocking_principals.BlockindiPrimacipalles.events.registration.placeholders.registrations),
              attribute), 295
                                                                                                     229
                                                                              (in- EventLogEntry
event role id
                                                                                                                                (class
                                                                                                                                                                      in-
              dico.modules.attachments.models.principals.AttachmentFoldkicBminadplds.events.logs.models.entries),
              attribute), 286
event_role_id
                                                                              (in- EventLogKind
                                                                                                                               (class
                                                                                                                                                     in
                                                                                                                                                                      in-
              dico.modules.attachments.models.principals.AttachmentPrindiquathodules.events.logs.models.entries),
                                                                                                     187
              attribute), 287
event_role_id
                                                                              (in- EventLogoPlaceholder
                                                                                                                                           (class
                                                                                                                                                           in
                                                                                                                                                                      in-
              dico.modules.categories.models.principals.CategoryPrincipdlco.modules.designer.placeholders), 325
                                                                                       EventLogRealm
              attribute), 267
                                                                                                                                (class
                                                                                                                                                                      in-
                                                                                                     dico.modules.events.logs.models.entries),
event role id
                                                                              (in-
              dico.modules.events.contributions.models.principals.ContributionPrincipal
              attribute), 176
                                                                                      EventLogRendererBase
                                                                                                                                           (class
                                                                                                                                                           in
                                                                                                                                                                      in-
```

dico.modules.events.logs.renderers), 188	dico.modules.events.settings), 143, 205
EventMessageMode (class in in-	EventSettingsMixin (class in in-
dico. modules. categories. models. categories),	dico.modules.events.models.settings), 136
266	EventSettingsProxy (class in in-
EventNote (class in in-	dico.modules.events.settings), 143, 205
dico. modules. events. notes. models. notes),	EventSpeakersPlaceholder (class in in-
190	dico.modules.designer.placeholders), 324
EventNoteResultSchema (class in in-	EventTitlePlaceholder (class in in-
dico.modules.search.result_schemas), 73	dico.modules.designer.placeholders), 323
EventNoteRevision (class in in-	EventTitlePlaceholder (class in in-
dico. modules. events. notes. models. notes),	dico. modules. events. abstracts. placeholders),
192	159
EventOrgTextPlaceholder (class in in-	EventTitlePlaceholder (class in in-
dico.modules.designer.placeholders), 320	dico.modules.events.persons.placeholders),
EventPage (class in in-	211
dico.modules.events.layout.models.menu),	EventTitlePlaceholder (class in in-
183	dico. modules. events. registration. placeholders. registrations),
EventPerson (class in in-	229
dico.modules.events.models.persons), 128	EventType (class in in-
EventPersonLink (class in in-	dico.modules.events.models.events), 127
dico.modules.events.models.persons), 129	EventURLPlaceholder (class in in-
EventPersonLinkListField (class in in-	dico.modules.events.abstracts.placeholders),
dico.modules.events.fields), 327	159
	EventVenuePlaceholder (class in in-
dico.modules.events.fields), 327	dico.modules.designer.placeholders), 324
· · · · · · · · · · · · · · · · · · ·	EXPERIMENTAL_EDITING_SERVICE (built-in vari-
dico.modules.events.models.principals),	able), 54
130	expired (indico.modules.events.static.models.static.StaticSiteState
EventReference (class in in-	attribute), 263
dico.modules.events.models.references),	extend_defaults() (in-
131	dico.modules.users.ext.ExtraUserPreferences
EventReminder (class in in-	method), 280
dico.modules.events.reminders.models.reminder	
234	dico.modules.events.timetable.models.entries.TimetableEntry
EventResultSchema (class in in-	method), 254
dico.modules.search.result_schemas), 71	extend_form() (in-
EventRoomPlaceholder (class in in-	dico.modules.users.ext.ExtraUserPreferences
dico.modules.designer.placeholders), 324	method), 280
	extend_parent() (in-
	mentFolderdico.modules.events.timetable.models.entries.TimetableEntry
attribute), 284	method), 254
	extend_start_dt() (in-
dico.modules.events.notes.models.notes.EventNo	
attribute), 190	method), 255
	extension(indico.modules.attachments.models.attachments.Attachments.
dico.modules.rb.models.reservations.Reservation	
attribute), 299	extension (indico.modules.designer.models.images.DesignerImageFile
EventSeries (class in in-	attribute), 317
dico.modules.events.models.series), 135	extension (indico.modules.events.abstracts.models.files.AbstractFile
EventSetting (class in in-	attribute), 152
dico.modules.events.models.settings), 135	extension (indico.modules.events.layout.models.images.ImageFile
EventSettingPrincipal (class in in-	attribute), 182
dico.modules.events.models.settings), 135	extension (indico.modules.events.papers.models.files.PaperFile
EventSettingProperty (class in in-	attribute), 195

```
extension (indico.modules.events.papers.models.templates.RaperTemplaters
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (in-
                                                               attribute), 202
                                                                                                                                                                                                                                                                                                                                                                                                                                                           dico.modules.users.models.users.User
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     at-
extension (indico.modules.events.registration.models.registrationstRiegistr);allibnData
                                                                                                                                                                                                                                                                                                                                                                                            {\tt features} \ ({\it indico.modules.rb.models.equipment.EquipmentType}
                                                               attribute), 215
\verb|extension| (indico.modules.events.static.models.static.StaticSite|) \\
                                                                                                                                                                                                                                                                                                                                                                                                                                                          attribute), 295
                                                                                                                                                                                                                                                                                                                                                                                            \verb|field| (indico.modules. designer. placeholders. Registration Address Placeholders. Registration Registration Address 
                                                             attribute), 262
external_cancellation_url
                                                                                                                                                                                                                                                                                                                                                    (in-
                                                                                                                                                                                                                                                                                                                                                                                                                                                           attribute), 323
                                                             dico.modules.rb.models.reservation_occurrences.Reservationul@acunodules.designer.placeholders.RegistrationAffiliationPlaceholders.
                                                             attribute), 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                           attribute), 323
external_details_url
                                                                                                                                                                                                                                                                                                                                                    (in-
                                                                                                                                                                                                                                                                                                                                                                                          \verb|field| (indico.modules.designer.placeholders.Registration Country Placeholders.Registration Country Plac
                                                               dico.modules.rb.models.blockings.Blocking
                                                                                                                                                                                                                                                                                                                                                                                                                                                           attribute), 323
                                                                                                                                                                                                                                                                                                                                                                                             {\tt field} (indico.modules.designer.placeholders.RegistrationEmailPlacehold
                                                             attribute), 294
external_details_url
                                                                                                                                                                                                                                                                                                                                                    (in-
                                                                                                                                                                                                                                                                                                                                                                                                                                                           attribute), 322
                                                             dico.modules.rb.models.reservations.Reservation \ {\tt field} \ (indico.modules.designer.placeholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.RegistrationFirstNamePlaceholders.Regist
                                                             attribute), 298
                                                                                                                                                                                                                                                                                                                                                                                                                                                           attribute), 321
external_identities
                                                                                                                                                                                                                                                                                                                                                                                          \verb|field| (indico.modules.designer.placeholders.RegistrationFriendly IDP lacebox and all of the property of t
                                                                                                                                                                                                                                                                                                                                                    (in-
                                                             dico.modules.users.models.users.User
                                                                                                                                                                                                                                                                                                                                                                                                                                                           attribute), 322
                                                                                                                                                                                                                                                                                                                                                         at-
                                                             tribute), 273
                                                                                                                                                                                                                                                                                                                                                                                            \verb|field| (indico.modules.designer.placeholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastNamePlaceholders.RegistrationLastN
external_logo_url
                                                                                                                                                                                                                                                                                                                                                    (in-
                                                                                                                                                                                                                                                                                                                                                                                                                                                           attribute), 321
                                                             dico.modules.events.models.events.Event
                                                                                                                                                                                                                                                                                                                                                                                            {\tt field} (indico.modules.designer.placeholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPhonePlaceholders.RegistrationPho
                                                             attribute), 123
                                                                                                                                                                                                                                                                                                                                                                                                                                                           attribute), 323
EXTERNAL_REGISTRATION_URL (built-in variable), field (indico.modules.designer.placeholders.RegistrationPositionPlaceho
                                                                                                                                                                                                                                                                                                                                                                                                                                                           attribute), 323
\verb|external_url| (indico.modules.events.models.events.Evefit = \verb|ld| (indico.modules.designer.placeholders.RegistrationTitlePlaceholders.events.Evefit = \verb|ld| (indico.modules.designer.placeholders.RegistrationTitlePlaceholders.events.Evefit = \verb|ld| (indico.modules.designer.placeholders.events.Evefit = \verb|ld| (indico.modules.events.Evefit = \verb|
                                                             attribute), 123
                                                                                                                                                                                                                                                                                                                                                                                                                                                           attribute), 321
extra_cc_emails
                                                                                                                                                                                                                                                                                                                                                    (in- field (indico.modules.events.abstracts.models.review_questions.Abstract
                                                             dico.modules.events.abstracts.models.email_templates.AbstractxtEmates).Template
                                                                                                                                                                                                                                                                                                                                                                                             \verb|field| (indico.modules.events.contributions.models.fields.ContributionFields)| |
                                                             attribute), 150
extra_emails(indico.modules.auth.models.registration_requests.Registration_request
                                                             attribute), 303
                                                                                                                                                                                                                                                                                                                                                                                             \verb|field| (indico.modules.events.papers.models.review\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.PaperReview\_questions.P
extra_events
                                                                                                                                                                                                                                                   module
                                                                                                                                                                                                                                                                                                                                                         in-
                                                                                                                                                                                                                                                                                                                                                                                                                                                           attribute), 197
                                                             dico.core.signals.category), 82
                                                                                                                                                                                                                                                                                                                                                                                             \verb|field| (indico.modules.events.registration.models.items.RegistrationFormly and all the control of the contr
                                                                                                                                                                                                                                                                                                                                                    (in-
                                                                                                                                                                                                                                                                                                                                                                                                                                                          attribute), 224
extra_key_cols
                                                             dico.modules.events.models.settings.EventSettingPrincipalindico.modules.events.surveys.models.items.SurveyQuestion
                                                                                                                                                                                                                                                                                                                                                                                                                                                            attribute), 249
                                                             attribute), 136
ExtraUserPreferences
                                                                                                                                                                                                                                  (class
                                                                                                                                                                                                                                                                                                         in
                                                                                                                                                                                                                                                                                                                                                                                          field_data(indico.modules.events.abstracts.models.review_questions.A
                                                             dico.modules.users.ext), 280
                                                                                                                                                                                                                                                                                                                                                                                                                                                           attribute), 153
                                                                                                                                                                                                                                                                                                                                                                                             field_data(indico.modules.events.contributions.models.fields.Contribu
F
                                                                                                                                                                                                                                                                                                                                                                                                                                                           attribute), 173
 attribute), 197
                                                               attribute), 271
 \verb|f_last_upper| (indico.modules.users.models.users.Name Former\_ \verb|DATA| (indico.modules.events.registration.models.items.Personal Data) | Data (indico.modules.events.registration.models.events.registration.models.events.registration.models.events.registration.put (indico.modules.events.registration.models.events.registration.put (indico.modules.events.registration.put (in
                                                                                                                                                                                                                                                                                                                                                                                                                                                          attribute), 223
                                                               attribute), 271
 failed (indico.modules.events.payment.models.transactions. Transactions in Management and Commodules.events.registration.models.registrations.Registration.
                                                                                                                                                                                                                                                                                                                                                                                                                                                           attribute), 215
\verb|failed| (indico.modules.events.static.models.static.StaticSife \verb|Static| = \texttt| Ata| (indico.modules.events.surveys.models.items.SurveyItem)| | \textit{the transportation} | \textit{th
                                                                                                                                                                                                                                                                                                                                                                                                                                                           attribute), 248
                                                             attribute), 263
                                                                                                                                                                                                                                                                                                                                                                                            field_data(indico.modules.events.surveys.models.items.SurveyQuestion
FAILED_LOGIN_RATE_LIMIT (built-in variable), 48
                                                                                                                                                                                                                                                                                                                                                                                                                                                           attribute), 249
 favorite_categories
                                                                                                                                                                                                                                                                                                                                                    (in-
                                                                                                                                                                                                                                                                                                                                                                                          \verb|field_data| (indico.modules.events.surveys.models.items.SurveySection|) \\
                                                             dico.modules.users.models.users.User
                                                                                                                                                                                                                                                                                                                                                         at-
                                                                                                                                                                                                                                                                                                                                                                                                                                                           attribute), 249
                                                             tribute), 273
                                                                                                                                                                                                                                                                                                                                                                                            field_data(indico.modules.events.surveys.models.items.SurveyText
 favorite_of (indico.modules.rb.models.rooms.Room
                                                                                                                                                                                                                                                                                                                                                                                                                                                           attribute), 250
                                                             attribute), 290
                                                                                                                                                                                                                                                                                                                                                                                             field_data_id
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (in-
```

	estre (iivulDatanodules.events.abstracts.models.files.AbstractFile
attribute), 215	attribute), 152
Field_id(indico.modules.events.registration.models.formf_fields. attribute), 218	Assegi stratuco hormules levents. layout. models. images. Image File attribute), 182
Field_impl (indico.modules.events.registration.models.farin_∰a	
attribute), 217	attribute), 195
	t <del>xavic</del> o(i <b>ifidiroltan/liylps</b> .events.papers.models.templates.PaperTemplat
attribute), 224	attribute), 202
<del>_</del>	extion(sinAdistorantBlevliesweQevetstivengistration.models.registrations.Regist
attribute), 153	attribute), 216
Field_type (indico.modules.events.contributions.modelsfields.contributions.modelsfields.contribute), 173	attribute), 262
	attrioute), 202 i <b>wn&amp;RipeinBerriashQe&amp;stiorc</b> h.result_schemas.AttachmentResultScher
attribute), 197	attribute), 72
Field_type (indico.modules.events.surveys.models.items:Suitxes	
attribute), 248	attribute), 196
field_type(indico.modules.events.surveys.models.items. <b>f</b> Suixte <del>y</del>	
attribute), 249	attribute), 68
Field_type (indico.modules.events.surveys.models.items:Surveys	
attribute), 249	dico.modules.rb.models.rooms.Room static
Field_type (indico.modules.events.surveys.models.items.Survey	
attribute), 250 filte field_values (indico.modules.events.abstracts.models.abstract	r_bookable_hours() (in- ts.Albstrancodules.rb.models.rooms.Room static
attribute), 145	method), 290
Field_values (indico.modules.events.contributions.mod&ls\taketa	
attribute), 170	dico.modules.events.contributions.models.fields.ContributionField
FieldPlaceholder (class in in-	attribute), 173
dico.modules.events.registration.placeholders.registration	ns).field_values() (in module in-
230	dico.modules.events.abstracts.util), 157
fields (indico.modules.events.registration.models.items.Régi <b>it</b> ra	
attribute), 225	dico.modules.rb.models.rooms.Room static
Fields (indico.modules.users.ext.ExtraUserPreferences	method), 290
	r_overlap() (in-
FieldStats (class in in-	dico.modules.rb.models.reservation_occurrences.ReservationOcc
dico.modules.events.registration.stats), 233 Eile (indico.modules.attachments.models.attachments.Atta <b>Ehrhere</b>	static method), 300
attribute), 281	dico.core.signals.event), 84
Eile (indico.modules.attachments.models.attachments.Atta <b>Ehme</b> n <u>t</u>	
attribute), 283	dico.modules.vc.util), 314
ile (indico.modules.events.registration.models.registratiofis.Regi	etrationDeda_days() (in-
attribute), 216	dico. modules. rb. models. reservations. Reservation
${\tt File_id}\ (indico.modules. attachments. models. attachments. atta$	me <b>nt</b> ethod), 298
	for_event() (in-
File_required (in-	dico.modules.vc.models.vc_rooms.VCRoomEventAssociation
dico.modules.events.registration.models.registrations.Reg	
	latest_entry_end_dt() (in module in-
File_required (in- dico.modules.events.static.models.static.StaticSitefind_	dico.modules.events.timetable.util), 257 latest_for_event() (in-
attribute), 262	dico.modules.events.requests.models.requests.Request
FileField (class in indico.web.forms.fields), 342	class method), 236
Filename (indico.modules.attachments.models.attachmentsiAttà <u>ic</u>	
attribute), 283	dico.modules.events.timetable.util), 257
Eilename (indico.modules.designer.models.images.Designæilmdig	
attribute), 317	dico. modules. rb. models. reservations. Reservation

```
method), 298
                                                                                                                                                                                                          dico.core.signals.attachments), 82
find_overlapping_with()
                                                                                                                                                           (in- folder_id(indico.modules.attachments.models.attachments.Attachment
                            dico.modules.rb.models.reservation_occurrences.Reservation@cibuterences2
                            class method), 300
                                                                                                                                                                              folder_id(indico.modules.attachments.models.principals.AttachmentFo
find_overlapping_with()
                                                                                                                                                           (in-
                                                                                                                                                                                                          attribute), 286
                            dico.modules.rb.models.reservations.Reservation \ {\tt folder\_id}\ (indico.modules.search.result\_schemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchemas.AttachmentResultSchem
                            static method), 298
                                                                                                                                                                                                          attribute), 72
find_with_attribute()
                                                                                                                                                           (in-
                                                                                                                                                                            folder_updated
                                                                                                                                                                                                                                                                (in
                                                                                                                                                                                                                                                                                               module
                            dico. modules. rb. models. rooms. Room\\
                                                                                                                                                        class
                                                                                                                                                                                                          dico.core.signals.attachments), 82
                            method), 291
                                                                                                                                                                              for_user() (indico.modules.events.models.persons.EventPerson
finished (indico.modules.events.surveys.models.surveys.SurveyStatedass method), 128
                                                                                                                                                                              \verb|form| (indico.modules.events.requests.base.RequestDefinitionBase
                            attribute), 247
\verb|first_last| (indico.modules.users.models.users.NameFormat|
                                                                                                                                                                                                          attribute), 238
                            attribute), 271
                                                                                                                                                                              form_defaults
                                                                                                                                                                                                                                                                                                                                         (in-
                                                                                                                                                                                                          dico. modules. events. requests. base. Request Definition Base\\
first_last_upper
                                                                                                                                                           (in-
                            dico.modules.users.models.users.NameFormat
                                                                                                                                                                              form_items (indico.modules.events.registration.models.forms.Registration
                            attribute), 271
first_name (indico.modules.events.models.persons.EventPerson attribute), 219
                                                                                                                                                                              form_validated
                            attribute), 128
                                                                                                                                                                                                                                                                                               module
                                                                                                                                                                                                                                                                                                                                            in-
                                                                                                                                                                                                                                                                (in
first_name (indico.modules.events.models.persons.PersonLinkBasedico.core.signals.core), 83
                            attribute), 130
                                                                                                                                                                              format_display_full_name() (in module in-
first_name (indico.modules.events.registration.models.invitations.Ricgismodidekuvistatiomodels.users), 276
                                                                                                                                                                              format_feature_names()
                            attribute), 222
                                                                                                                                                                                                                                                                                                           module
                                                                                                                                                                                                                                                                                                                                            in-
first_name (indico.modules.events.registration.models.items.PersodialDatallisps.events.features.util), 181
                                                                                                                                                                              frame (indico.modules.events.abstracts.settings.BOALinkFormat
                            attribute), 223
first_name (indico.modules.events.registration.models.registrationstRiguster)ati6fi
                            attribute), 213
                                                                                                                                                                              friendly_data
                                                                                                                                                                                                                                                                                                                                         (in-
first\_name (indico.modules.users.models.users.User
                                                                                                                                                                                                          dico. modules. events. contributions. models. fields. Contribution Fields and the contribution of the co
                            attribute), 273
                                                                                                                                                                                                          attribute), 174
FirstNamePlaceholder
                                                                                                       (class
                                                                                                                                                                             friendly_data
                                                                                                                                        in
                                                                                                                                                              in-
                            dico.modules.events.persons.placeholders),
                                                                                                                                                                                                          dico.modules.events.registration.models.registrations.Registration
                             211
                                                                                                                                                                                                           attribute), 216
FirstNamePlaceholder
                                                                                                       (class
                                                                                                                                                              in- friendly_id(indico.modules.events.abstracts.models.abstracts.Abstrac
                            dico.modules.events.registration.placeholders.invitations), attribute), 145
                                                                                                                                                                              friendly_id(indico.modules.events.contributions.models.contributions
FirstNamePlaceholder
                                                                                                       (class
                                                                                                                                        in
                                                                                                                                                              in-
                                                                                                                                                                                                          attribute), 170
                            dico.modules.events.registration.placeholders.registrationx),y_id (indico.modules.events.contributions.models.subcontributi
                                                                                                                                                                                                          attribute), 177
fit_session_block_entry() (in module in- friendly_id(indico.modules.events.registration.models.registrations.Re
                            dico.modules.events.timetable.operations),
                                                                                                                                                                                                          attribute), 213
                                                                                                                                                                              friendly_id(indico.modules.events.sessions.models.sessions.Session
fits_period()
                                                                                                                                                           (in-
                                                                                                                                                                                                          attribute), 240
                            dico.modules.rb.models.room\_bookable\_hours.Bobkable diangs id (indico.modules.events.surveys.models.submissions.Surveys.models.submissions.Surveys.models.submissions.Surveys.models.submissions.Surveys.models.submissions.Surveys.models.submissions.Surveys.models.submissions.Surveys.models.submissions.Surveys.models.submissions.Surveys.models.submissions.Surveys.models.submissions.Surveys.models.submissions.Surveys.models.submissions.Surveys.models.submissions.Surveys.models.submissions.Surveys.models.submissions.Surveys.models.submissions.Surveys.models.submissions.Surveys.models.submissions.Surveys.models.submissions.Surveys.models.submissions.Surveys.models.submissions.Surveys.models.submissions.Surveys.models.submissions.Surveys.models.submissions.Surveys.models.submissions.Surveys.models.submissions.Surveys.models.submissions.Surveys.models.submissions.Surveys.models.submissions.Surveys.models.submissions.Surveys.models.submissions.Surveys.models.submissions.Surveys.models.submissions.Surveys.models.submissions.Surveys.models.submissions.Surveys.models.submissions.Surveys.models.submissions.Surveys.models.submissions.Surveys.models.submissions.Surveys.models.submissions.Surveys.submissions.Surveys.submissions.Surveys.submissions.Surveys.submissions.Surveys.submissions.Surveys.submissions.Surveys.submissions.Surveys.submissions.Surveys.submissions.Surveys.submissions.Surveys.submissions.Surveys.submissions.Surveys.submissions.Surveys.submissions.Surveys.submissions.Surveys.submissions.Surveys.submissions.Surveys.submissions.Surveys.submissions.Surveys.submissions.Surveys.submissions.Surveys.submissions.Surveys.submissions.Surveys.submissions.Surveys.submissions.Surveys.submissions.Surveys.submissions.Surveys.submissions.Surveys.submissions.Surveys.submissions.Surveys.submissions.Surveys.submissions.Surveys.submissions.Surveys.submissions.Surveys.submissions.Surveys.submissions.Surveys.submissions.Surveys.submissions.Surveys.submissions.Surveys.submissions.Surveys.submissions.Surveys.submissions.Surveys.subm
                            method), 293
                                                                                                                                                                                                          attribute), 251
flash_info_message()
                                                                                                                                                                           friendly_name
                                                                                                                                                                                                                                                                                                                                         (in-
                                                                                                                                                           (in-
                            dico.modules.events.util.ListGeneratorBase
                                                                                                                                                                                                          dico.modules.vc.plugins.VCPluginMixin
                            method), 139
                                                                                                                                                                                                          attribute), 315
                              (indico.modules.rb.models.rooms.Room
                                                                                                                                                                             full_access (indico.modules.categories.models.principals.CategoryPri
                            tribute), 291
                                                                                                                                                                                                          attribute), 267
{	t folder} (indico.modules.attachments.models.attachments. Attachmentcess (indico.modules.events.contributions.models.principals. Contributions.models.principals. Contributions.models.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals.principals
                            attribute), 281
                                                                                                                                                                                                          attribute), 176
                                                                                                                                                                             full_access (indico.modules.events.models.principals.EventPrincipal
folder_created
                                                                                   (in
                                                                                                                 module
```

attribute), 131

full_access (indico.modules.events.sessions.models.principals.Session

dico.core.signals.attachments), 82

module

folder_deleted

attribute), 243	genera	ate_static_url()	(in-
full_access (indico.modules.events.tracks.models	.principals.Tr	ac <b>llRrimiphl</b> les.events.util.ListGeneratorBas	re
attribute), 261		method), 139	
$\verb full_name   (indico.modules.events.registration.modules.events.registration.modules.events.registration.modules.events.registration.modules.events.registration.modules.events.registration.modules.events.registration.modules.events.registration.modules.events.registration.modules.events.registration.modules.events.registration.modules.events.registration.modules.events.registration.modules.events.registration.modules.events.registration.modules.events.registration.modules.events.registration.modules.events.registration.modules.events.registration.modules.events.registration.modules.events.registration.modules.events.registration.modules.events.registration.modules.events.registration.modules.events.registration.modules.events.registration.modules.events.registration.modules.events.registration.modules.events.registration.modules.events.registration.modules.events.registration.modules.events.registration.modules.events.registration.modules.events.registration.modules.events.registration.modules.events.registration.modules.events.registration.modules.events.registration.modules.events.registration.events.registration.events.registration.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.e$	els.reg <del>istrat</del> io		in-
attribute), 213		dico.modules.events.registration.util), 227	
full_name (indico.modules.rb.models.rooms.Room	at- genera	ate_ticket_qr_code (in module	in-
tribute), 291		dico.core.signals.event), 85	
${\tt full_name}$ $(indico.modules.users.models.users.Pers$	onMixj <b>e</b> nera		in-
attribute), 271		dico.modules.events.registration.util), 227	
full_title(indico.modules.events.models.reviews	.ProposatGro		ySettingsProxy
attribute), 133		method), 270	
full_title(indico.modules.events.sessions.model.	s.blockseSe&sio		Proxy
attribute), 242		method), 142, 205	
${\tt full_title}$ (indico.modules.events.tracks.models.t	racks.Epetck()		sProxy
attribute), 259		method), 143, 206	
		(indico.modules.users.models.settings.UserS)	SettingsProxy
dico.modules.events.models.reviews.Propose			
attribute), 133	_	ccess_list()	(in-
	(in-	dico.modules.events.contributions.models.	subcontributions.SubC
dico. modules. events. tracks. models. tracks. Track		method), 177	
attribute), 259	get_a	ctive_payment_plugins() ( <i>in modu</i>	le in-
<u></u>		dico.modules.events.payment.util), 208	
G	get_a	dmin_emails() (in module	in-
	(in-	dico.modules.users.util), 279	
dico.modules.attachments.preview.Markdow	nPreviewter a	greement_definitions() ( <i>in modul</i>	e in-
class method), 288		dico.modules.events.agreements.util), 167	
generate_content()	(in- get_a	11 () (indico.modules.categories.settings. $Ca$	ttegorySettingsProxy
dico.modules.attachments.preview.Previewe	r	method), 270	
class method), 289	get_a	11 () (indico.modules.events.settings.EventS	SettingsProxy
generate_content()	(in-	method), 143, 206	
dico.modules.attachments.preview.TextPrevi	<i>ewer</i> get_a.	11 () (indico.modules.users.models.settings.	UserSettingsProxy
class method), 289		method), 278	
generate_name()	(in- get_a	ll_for_event()	(in-
dico.modules.rb.models.rooms.Room metho	(d),	dico.modules.events.registration.models.re	gistrations.Registration
291		class method), 213	
<pre>generate_pdf_from_sessions() (in module</pre>	in- get_a	ll_templates() (in module	in-
dico.modules.events.sessions.util), 245		dico.modules.designer.util), 318	
<pre>generate_spreadsheet_from_abstracts(</pre>	) get_a.	ll_user_roles() (in module	in-
(in module	in-	dico.modules.events.util), 139	<i>(:</i>
dico.modules.events.abstracts.util), 157		llowed_scope()	(in-
<pre>generate_spreadsheet_from_contributi</pre>		dico.core.oauth.models.applications.OAut	пАррисаноп
(in module	in-	method), 306	<i>(:</i>
dico.modules.events.contributions.util), 180		<pre>llowed_sender_emails()   dico.modules.events.models.events.Event</pre>	(in-
generate_spreadsheet_from_occurrence	s()		
(in module indico.modules.rb.util), 301	.~a+ a+	method),123 ttached folders() (in module	in
generate_spreadsheet_from_registrati		ttached_folders() (in module dico.modules.attachments.util), 287	in-
(in module	in-		in
dico.modules.events.registration.util), 227		ttached_items() (in module	in-
<pre>generate_spreadsheet_from_sessions()</pre>		dico.modules.attachments.util), 288	in
module indico.modules.events.sessions.u.	til), get_at	ttachment_count() (in module	in-
245		dico.modules.categories.util), 268	(:
generate_spreadsheet_from_survey()	(	ttribute_by_name()	(in-
module indico.modules.events.surveys.u.	til),	dico.modules.rb.models.rooms.Room met	noa),
252		291	

```
get_attribute_value()
                                                                              module
                                              (in-
                                                             (in
                                                                                                   in-
        dico.modules.rb.models.rooms.Room method),
                                                             dico, modules, events, contributions, util), 180
                                                    get css file data()
                                                                                 (in
                                                                                                   in-
get_auth_time()
                                                             dico.modules.events.layout.util), 186
                                              (in-
        dico.core.oauth.models.tokens.OAuth2Authorizationecfodess url()
                                                                            (in
                                                                                      module
                                                                                                   in-
        method), 308
                                                             dico.modules.events.layout.util), 186
get_avatar_url_from_name() (in module in-
                                                    get data()(indico.modules.events.logs.renderers.EventLogRendererBa
        dico.modules.users.util), 279
                                                             class method), 188
get_badge_format()
                            (in
                                    module
                                               in-
                                                    get data() (indico.modules.events.logs.renderers.SimpleRenderer
        dico.modules.designer.util), 318
                                                             class method), 189
get_blocked_rooms()
                                              (in-
                                                    get_default_badge_on_category() (in mod-
        dico.modules.rb.models.rooms.Room method),
                                                             ule indico.modules.designer.util), 318
                                                    get_default_folder_names() (in module in-
                                  module
                                                             dico.modules.attachments.util), 288
get_blueprints
                         (in
                                               in-
        dico.core.signals.plugin), 88
                                                    get_default_redirect_uri()
                                                                                                   (in-
get_blueprints()
                                              (in-
                                                             dico.core.oauth.models.applications.OAuthApplication
        dico.core.plugins.IndicoPlugin
                                          method),
                                                             method), 306
                                                    get_default_ticket_on_category() (in mod-
get_boa_export_formats() (in module in-
                                                             ule indico.modules.designer.util), 318
        dico.modules.events.contributions.util), 180
                                                    get definitions
                                                                                      module
                                                                                                   in-
get_booking_params_for_event() (in module
                                                             dico.core.signals.agreements), 82
        indico.modules.rb.util), 301
                                                    get_delete_comment_url()
                                                                                                   (in-
get_category_stats()
                              (in
                                     module
                                                             dico.modules.events.models.reviews.ProposalMixin
                                               in-
        dico.modules.categories.util), 268
                                                             method), 134
get_category_timetable()
                                (in module
                                                    get_disallowed_features() (in module in-
                                               in-
        dico.modules.events.timetable.util), 257
                                                             dico.modules.events.features.util), 181
get_client_id()
                                                    get_download_url()
                                                                                                   (in-
                                              (in-
        dico.core.oauth.models.applications.OAuthApplication
                                                             dico.modules.attachments.models.attachments.Attachment
        method), 306
                                                             method), 282
get_cloners
                      (in
                                module
                                                    get_editable()
                                                                                                   (in-
        dico.core.signals.event_management), 87
                                                             dico.modules.events.contributions.models.contributions.Contribu
get_color_for_user_id()
                                (in
                                               in-
                                                             method), 170
        dico.modules.users.util), 279
                                                    get_enabled_features()
                                                                                    (in
                                                                                          module
                                                                                                   in-
get_conditions
                                  module
                                                             dico.modules.events.features.util), 181
                         (in
                                               in-
        dico.core.signals.core), 83
                                                    get_event()
                                                                          (in
                                                                                     module
                                                                                                   in-
                               (in
get_conference_themes
                                     module
                                               in-
                                                             dico.modules.attachments.util), 288
        dico.core.signals.plugin), 88
                                                    get event from url()
                                                                                         module
                                                                                                   in-
get_conflicting_occurrences()
                                              (in-
                                                             dico.modules.events.util), 139
        dico.modules.rb.models.reservations.Reservation get_event_management_url()
                                                                                                   (in-
                                                             dico.modules.events.payment.plugins.PaymentPluginMixin
        method), 298
get_contribs_by_year()
                                     module
                                                             method), 209
                                               in-
        dico.modules.categories.util), 268
                                                    get event regforms()
                                                                                  (in
                                                                                         module
                                                                                                   in-
get_contribution()
                                                             dico.modules.events.registration.util), 227
                                              (in-
        dico.modules.events.models.events.Event
                                                    get_event_regforms_registrations()
        method), 124
                                                                              module
                                                                                                   in-
get_contribution_field()
                                                             dico.modules.events.registration.util), 228
                                              (in-
        dico.modules.events.models.events.Event
                                                    get_event_request_definitions (in module
        method), 124
                                                             indico.core.signals.plugin), 88
get_contributions_for_person() (in module
                                                    get_event_section_data()
                                                                                    (in module
                                                                                                   in-
        indico.modules.events.contributions.util), 180
                                                             dico.modules.events.registration.util), 228
get_contributions_with_paper_submitted_bgetserent_themes_files
                                                                                          module
                                                                                    (in
                                                                                                   in-
        (in module indico.modules.events.papers.util),
                                                             dico.core.signals.plugin), 88
        204
                                                    get_events_by_year()
                                                                                  (in
                                                                                         module
                                                                                                   in-
                                                             dico.modules.categories.util), 268
get_contributions_with_user_as_submitter()
```

<pre>get_events_created_by() (in module in-</pre>	class method), 284	
dico.modules.events.util), 140		(in-
get_events_managed_by() (in module in-	dico.modules.events.notes.models.notes.Eve	•
dico.modules.events.util), 140	class method), 190	
	**	(in-
dico.modules.events.registration.util), 228	dico.modules.events.registration.models.for	`
get_events_with_abstract_persons() (in	method), 217	
module indico.modules.events.abstracts.util),		(in-
158	dico.modules.events.registration.models.reg	\
get_events_with_abstract_reviewer_conve		isiranons.Registranor
		(in-
dico.modules.events.abstracts.util), 158	dico.modules.events.registration.models.reg	•
get_events_with_linked_contributions()	method), 213	isiranons.Regisirano
		(in-
dico.modules.events.contributions.util), 180	dico.modules.users.models.users.PersonMix	•
		un
<pre>get_events_with_linked_event_persons()      (in module indico.modules.events.util), 140</pre>	method), 271	(:
		(in-
get_events_with_linked_sessions() (in	dico.modules.users.models.users.User	
module indico.modules.events.sessions.util),	method), 273	
245	5 · · = 5 · · · · · · · · · · · · · · ·	in-
get_events_with_paper_roles() (in module	dico.modules.users.util), 279	<i>,</i> •
indico.modules.events.papers.util), 204	3 — — ···	(in-
<pre>get_events_with_submitted_surveys() (in</pre>	dico.modules.categories.models.categories.	Category
module indico.modules.events.surveys.util),	method), 264	
252	<pre>get_highest (indico.modules.events.contributions</pre>	.models.persons.Auth
get_expires_in() (in-	attribute), 174	
dico.core.oauth.models.tokens. Token Model Base		(in-
method), 309	dico. modules. categories. models. categories.	Category
get_extra_delete_msg() (in-	class method), 264	
dico.modules.vc.plugins.VCPluginMixin	<u> </u>	(in-
method), 315	dico. modules. users. models. users. User	
<pre>get_feature_definition() (in module in-</pre>	method), 273	
dico.modules.events.features.util), 181	<pre>get_image_data()</pre>	in-
get_feature_definitions (in module in-	dico.modules.categories.util), 269	
dico.core.signals.event), 85	<pre>get_image_placeholder_types() (in mod</pre>	dule
<pre>get_feature_definitions() (in module in-</pre>	indico.modules.designer.util), 318	
dico.modules.events.features.util), 181	<pre>get_inherited_templates() (in module</pre>	in-
<pre>get_field_value()</pre>	dico.modules.designer.util), 318	
dico.modules.events.contributions.models.contrib	bugien <u>s.CousteoiniFöeldsAdjixion</u> ms ()	(in-
method), 172	dico.modules.events.payment.plugins.Paymo	entPluginMixin
<pre>get_field_values() (in module in-</pre>	method), 209	
dico.modules.events.util), 140	<pre>get_label_markup()</pre>	(in-
<pre>get_fields (in module indico.core.signals.core), 83</pre>	dico.modules.events.models.events.Event	
<pre>get_file_previewer() (in module in-</pre>	method), 124	
dico.modules.attachments.preview), 289	<pre>get_last_revision()</pre>	(in-
get_file_previewers (in module in-	dico.modules.events.models.reviews.Propos	alMixin
dico.core.signals.attachments), 82	method), 134	
<u> </u>		(in-
dico.modules.attachments.preview), 289	dico.modules.events.papers.models.papers.n	*
get_for_event() (in-	method), 196	
dico.modules.events.layout.models.menu.MenuEi		in-
static method), 183	dico.modules.users.util), 279	
		(in-
	mentFolderdico modules vc models vc rooms VCRoom	`

```
method), 124
        class method), 313
get_linked_object()
                             (in
                                    module
                                                    get_non_inheriting_objects()
                                                                                                    (in-
        dico.modules.rb.util), 301
                                                             dico.modules.events.sessions.models.sessions.Session
get_linked_to_description() (in module in-
        dico.modules.vc.util), 314
                                                    get_nonce() (indico.core.oauth.models.tokens.OAuth2AuthorizationCod
get list url()
                                               (in-
                                                             method), 308
        dico.modules.events.util.ListGeneratorBase
                                                    get_not_deletable_templates() (in module
        method), 139
                                                             indico.modules.designer.util), 318
get_log_renderers
                            (in
                                    module
                                                    get_notification_bcc_list()
                                                                                                    (in-
                                                in-
        dico.core.signals.event), 85
                                                             dico.modules.vc.plugins.VCPluginMixin
get_log_renderers()
                                    module
                                                in-
                                                             method), 315
                                                    get_notification_cc_list()
        dico.modules.events.logs.util), 188
                                                                                                    (in-
                                                             dico.modules.vc.plugins.VCPluginMixin
get_logo_data()
                          (in
                                   module
                                                in-
        dico.modules.events.layout.util), 186
                                                             method), 315
get_managed_vc_plugins()
                                  (in module
                                                    get_notification_reply_email()
                                                                                                    (in-
                                                in-
        dico.modules.vc.util), 314
                                                             dico.modules.events.requests.base.RequestDefinitionBase
get_management_permissions (in module in-
                                                             class method), 238
        dico.core.signals.acl), 81
                                                    get_notification_template()
                                                                                                    (in-
get_manager_list()
                                               (in-
                                                             dico.modules.events.requests.base.RequestDefinitionBase
        dico.modules.events.contributions.models.subcontributions. Slabs onethod jo 238
        method), 177
                                                    get_object_from_args()
                                                                                     (in
                                                                                          module
                                                                                                    in-
get_manager_notification_emails()
                                               (in-
                                                             dico.modules.events.util), 140
        dico.modules.events.requests.base.RequestDefinitigeBaser_create()
                                                                                                    (in-
        class method), 238
                                                             dico.modules.attachments.models.folders.AttachmentFolder
get_members()
                                               (in-
                                                             class method), 284
        dico.modules.groups.core.GroupProxy
                                                    get_or_create()
        method), 311
                                                             dico. modules. events. notes. models. notes. Event Note\\
get_menu_entries_from_signal() (in module
                                                             class method), 190
        indico.modules.events.layout.util), 186
                                                    get_or_create_default()
                                                                                                    (in-
                                                             dico.modules.attachments.models.folders.AttachmentFolder
get_menu_entry_by_name() (in module
                                               in-
        dico.modules.events.layout.util), 186
                                                             class method), 284
get_merged_from_users_recursive()
                                                    get_overlap()
                                                                                                    (in-
        (indico.modules.users.models.users.User\\
                                                             dico.modules.rb.models.reservation_occurrences.ReservationOcc
        method), 273
                                                             method), 300
get_message()
                                               (in-
                                                    get_overridden_value()
        dico.modules.rb.models.reservations.RepeatMapping
                                                             dico.web.forms.fields.OverrideMultipleItemsField
        class method), 296
                                                             method), 343
get_method_name()
                                               (in- get_participant_list_columns()
                                                                                                    (in-
        dico.modules.events.payment.plugins.PaymentPluginMixin dico.modules.events.registration.settings.RegistrationSettingsPro
        method), 209
                                                             method), 232
                                  module
                                                    get_participant_list_form_ids()
get_min_year()
                         (in
                                                in-
        dico.modules.categories.util), 269
                                                             dico.modules.events.registration.settings.RegistrationSettingsPro
get_nested_entries()
                              (in
                                     module
                                                in-
                                                             method), 232
        dico.modules.events.timetable.util), 258
                                                                                          module
                                                    get_payment_plugins()
                                                                                    (in
                                                                                                    in-
get_nested_placeholder_options() (in mod-
                                                             dico.modules.events.payment.util), 208
        ule indico.modules.designer.util), 318
                                                    get_pdf() (indico.modules.designer.pdf.DesignerPDFBase
get_next_position()
                             (in
                                    module
                                                in-
                                                             method), 318
        dico.modules.events.tracks.models.tracks),
                                                    get_permissions_for_user()
                                                                                                    (in-
                                                             dico.modules.rb.models.rooms.Room
                                                                                                   class
                                                             method), 291
get_non_inheriting_objects()
                                               (in-
        dico.modules.events.contributions.models.contribugions.contribution_data()
                                                                                                    (in-
        method), 170
                                                             dico.modules.events.registration.models.registrations.Registration
get_non_inheriting_objects()
                                               (in-
                                                             method), 213
        dico.modules.events.models.events.Event
                                                    get_personal_data_field_id()
                                                                                                    (in-
```

```
dico.modules.events.registration.models.forms.RegistrationFracthod), 134
        method), 219
                                                    get_reviewed_for_groups()
                                                                                                    (in-
get_placeholder_options() (in module in-
                                                             dico.modules.events.papers.models.revisions.PaperRevision
        dico.modules.designer.util), 318
                                                             method), 201
get_placeholders
                                   module
                                                in-
                                                    get_reviewer_render_data()
        dico.core.signals.core), 83
                                                             dico.modules.events.models.reviews.ProposalRevisionMixin
get_placeholders()
                                                             method), 134
                                               (in-
        dico.modules.search.base.IndicoSearchProvider get_reviewing_state()
        method), 69, 70
                                                             dico.modules.events.papers.models.call_for_papers.CallForPape
get_plugin_conference_themes() (in module
                                                             method), 193
        indico.modules.events.layout.util), 186
                                                    get_reviews()
                                                                                                    (in-
get_plugin_template_module() (in module in-
                                                             dico.modules.events.models.reviews.ProposalRevisionMixin
        dico.core.plugins), 80
                                                             method), 134
get_prebooking_collisions() (in module in-
                                                    get_reviews()
                                                                                                    (in-
        dico.modules.rb.util), 301
                                                             dico.modules.events.papers.models.revisions.PaperRevision
get_protection_cte()
                                               (in-
                                                             method), 201
        dico.modules.categories.models.categories.Categories_categories.()
                                                                                                    (in-
        class method), 264
                                                             dico.modules.events.models.reviews.ProposalMixin
get_protection_parent_cte()
                                                             method), 134
                                               (in-
        dico.modules.categories.models.categories.Categoret_revisions()
                                                                                                    (in-
        method), 264
                                                             dico.modules.events.papers.models.papers.Paper
get_published_registrations() (in module
                                                             method), 196
        indico.modules.events.registration.util), 228
                                                    get_root() (indico.modules.categories.models.categories.Category
get_questions_for_review_type()
                                                             class method), 264
                                               (in-
        dico.modules.events.papers.models.call_for_paperseCallfonPapers()
                                                                                                    (in-
        method), 193
                                                             dico.web. forms. fields. Override Multiple I tems Field
get_random_color()
                            (in
                                    module
                                                             method), 343
                                                in-
        dico.modules.events.util), 140
                                                    get_save_comment_url()
                                                                                                    (in-
                                                             dico.modules.events.models.reviews.ProposalMixin
get_recent_news()
                           (in
                                    module
                                                in-
        dico.modules.news.util), 327
                                                             method), 134
get_redirect_uri()
                                               (in-
                                                   get_save_judgment_url()
        dico.core.oauth.models.tokens.OAuth2AuthorizationCode dico.modules.events.models.reviews.ProposalMixin
        method), 308
                                                             method), 134
get_registered_event_persons() (in module get_save_review_url()
                                                                                                    (in-
        indico.modules.events.registration.util), 228
                                                             dico.modules.events.models.reviews.ProposalMixin
get_registration()
                                                             method), 134
                                               (in-
        dico.modules.events.registration.models.forms.RegistrationFerbaled notes ()
                                                                                    (in
                                                                                          module
                                                                                                    in-
        method), 220
                                                             dico.modules.events.notes.util), 192
get_registrations_with_tickets() (in mod-
                                                    get scope() (indico.core.oauth.models.tokens.OAuth2AuthorizationCod
        ule indico.modules.events.registration.util), 228
                                                             method), 308
get_related_categories()
                                (in module
                                                    get scope()(indico.core.oauth.models.tokens.OAuthToken
        dico.modules.users.util), 279
                                                             method), 309
get_relative_event_ids()
                                                    get search provider()
                                                                                          module
                                               (in-
                                                                                    (in
                                                                                                    in-
        dico.modules.events.models.events.Event
                                                             dico.modules.search.base), 70
        method), 124
                                                    get_search_providers
                                                                                   (in
                                                                                          module
                                                                                                    in-
get_request_definitions() (in module in-
                                                             dico.core.signals.core), 84
                                                    get_session()
        dico.modules.events.requests.util), 237
                                                                                                    (in-
get_resized_room_photo()
                                                             dico.modules.events.models.events.Event
                                 (in module
                                               in-
        dico.modules.rb.util), 301
                                                             method), 124
get_reviewed_for_groups()
                                               (in-
                                                    get_session_block()
                                                                                                    (in-
        dico. modules. events. abstracts. models. abstracts. Abstract\\
                                                             dico.modules.events.models.events.Event
        method), 145
                                                             method), 124
get_reviewed_for_groups()
                                               (in- get_session_block_entries() (in module in-
        dico.modules.events.models.reviews.ProposalRevisionMixindico.modules.events.timetable.util), 258
```

```
get_title() (indico.modules.events.registration.models.items.Personal.
get_session_timetable_pdf() (in module in-
        dico.modules.events.sessions.util), 245
                                                             method), 223
get_sessions_for_user()
                                (in
                                                    get title uuid()
                                                                               (in
                                                                                       module
                                                                                                    in-
                                                             dico.modules.events.registration.util), 228
        dico.modules.events.sessions.util), 245
get_short_name()
                                               (in-
                                                    get_top_level_entries()
                                                                                     (in
                                                                                          module
                                                                                                    in-
        dico.modules.rb.models.reservations.RepeatMapping
                                                             dico.modules.events.timetable.util), 258
        class method), 296
                                                    get track question scores()
                                                                                                   (in-
get sibling entry()
                                                             dico.modules.events.abstracts.models.abstracts.Abstract
                             (in
                                    module
                                               in-
        dico.modules.events.timetable.operations),
                                                             method), 145
                                                    get_track_reviewer_abstract_counts() (in
get_sort_options()
                                               (in-
                                                             module indico.modules.events.abstracts.util),
        dico.modules.search.base.IndicoSearchProvider
        method), 70
                                                    get_track_reviewing_state()
                                                                                                   (in-
get_sorted_tracks()
                                                             dico.modules.events.abstracts.models.abstracts.Abstract
                                               (in-
        dico.modules.events.models.events.Event
                                                             method), 145
        method), 124
                                                    get_track_score()
                                                                                                   (in-
get_spotlight_file()
                                               (in-
                                                             dico.modules.events.abstracts.models.abstracts.Abstract
        dico.modules.events.papers.models.revisions.PaperRevisionmethod), 145
                                                    get_tree_cte()
        method), 201
get_storage_backends
                                                             dico.modules.categories.models.categories.Category
                              (in
                                     module
                                               in-
        dico.core.signals.core), 84
                                                             class method), 264
get_suggested_categories()
                                   (in module in-
                                                    get upcoming events()
                                                                                   (in
                                                                                          module
                                                                                                    in-
        dico.modules.users.util), 279
                                                             dico.modules.categories.util), 269
get_summary()
                                               (in-
                                                    get user abstracts()
                                                                                         module
                                                                                  (in
                                                                                                    in-
        dico.modules.events.surveys.models.items.SurveyQuestion dico.modules.events.abstracts.util), 158
                                                    get_user_by_email()
        method), 249
                                                                                  (in
                                                                                         module
                                                                                                    in-
get_system_user()
                                               (in-
                                                             dico.modules.users.util), 279
        dico.modules.users.models.users.User
                                                    get_user_contributions_to_review()
                                             static
                                                                                                    (in
        method), 273
                                                             module indico.modules.events.papers.util), 204
qet_table() (indico.modules.events.registration.stats.FieldStatsser_reviewed_contributions()
                                                                                                    (in
        method), 234
                                                             module indico.modules.events.papers.util), 204
get_template_customization_paths (in mod- get_user_submittable_contributions() (in
                                                             module indico.modules.events.papers.util), 204
        ule indico.core.signals.plugin), 88
                                                    get_user_tracks()
get_theme() (in module indico.modules.events.util),
                                                                                        module
                                                                                (in
                                                                                                    in-
        140
                                                             dico.modules.events.abstracts.util), 158
                                                                         (indico.core.plugins.IndicoPlugin
get_themes_for()
                                               (in-
                                                    get_vars_js()
        dico.modules.events.settings.ThemeSettingsProxy
                                                             method), 78
        method), 144, 206
                                                    get_vc_plugins()
                                                                                       module
                                                                                                    in-
                                                                               (in
get_ticket_attachments()
                                 (in module
                                                             dico.modules.vc.util), 314
        dico.modules.events.registration.util), 228
                                                    get_vc_room_attach_form_defaults()
get_time_changes_notifications() (in mod-
                                                             (indico.modules.vc.plugins.VCPluginMixin
        ule indico.modules.events.timetable.util), 258
                                                             method), 315
                                               (in- get_vc_room_form_defaults()
get timeline()
                                                                                                   (in-
        dico. modules. events. abstracts. models. abstracts. Abstract\\
                                                             dico.modules.vc.plugins.VCPluginMixin
        method), 145
                                                             method), 315
                                               (in- get_verbose_title()
get_timeline()
                                                                                                   (in-
        dico.modules.events.models.reviews.ProposalRevisionMixindico.modules.events.models.events.Event
        method), 134
                                                             method), 124
get_timeline()
                                               (in- get_visibility_options() (in module
                                                                                                    in-
        dico.modules.events.papers.models.revisions.PaperRevisiondico.modules.categories.util), 269
        method), 201
                                                    get_visible_categories_cte()
                                                                                                   (in-
get timetable offline pdf generator()
                                                             dico.modules.categories.models.categories.Category
        (in
                          module
                                               in-
                                                             static method), 265
        dico.modules.events.timetable.util), 258
                                                    get visible reviewed for tracks()
                                                                                                    (in
```

```
indico.modules.events.abstracts.util),
                                                            module
                                                               158
                                                                                                                                                                                                                                                                                                                                                                               happens_between()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (in-
 get with data()
                                                                                                                                                                                                                                                                                                                                                                                                                                            dico.modules.events.models.events.Event
                                                               dico.modules.rb.models.reservations.Reservation
                                                                                                                                                                                                                                                                                                                                                                                                                                            method), 124
                                                            static method), 298
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (in-
                                                                                                                                                                                                                                                                                                                                                                              has_attribute()
  get with data()
                                                                                                                                                                                                                                                                                                                                         (in-
                                                                                                                                                                                                                                                                                                                                                                                                                                             dico.modules.rb.models.rooms.Room method),
                                                            dico,modules.rb.models.rooms.Room
                                                                                                                                                                                                                                                                                                                               static
                                                                                                                                                                                                                                                                                                                                                                                                                                             291
                                                            method), 291
                                                                                                                                                                                                                                                                                                                                                                              has_conflict()
\texttt{getBody} \ () \ (\textit{indico.modules.events.sessions.util.SessionListToPDF} \ \textit{dico.modules.events.registration.models.registrations.Registration}) \ () \ (\textit{indico.modules.events.sessions.util.SessionListToPDF} \ \textit{dico.modules.events.registration.models.registrations.Registration}) \ () \ (\textit{indico.modules.events.sessions.util.SessionListToPDF} \ \textit{dico.modules.events.registration.models.registrations.Registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.mode
                                                              method), 244
                                                                                                                                                                                                                                                                                                                                                                                                                                            method), 213
\verb|gravatar|| \textit{indico.modules.users.models.users.ProfilePictureSource.} \\ \textit{profilePictureSource.} \\ \textit{profilePicture.} \\ \textit{profilePicture.} \\ \textit{profilePicture.} \\ \textit{profilePicture.} \\ \textit{profilePicture.} \\ \textit{profilePicture.} \\ \textit{profil
                                                               attribute), 272
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      module
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            in-
group (indico.modules.designer.placeholders.CategoryTitlePlaceholdero.modules.events.contributions.util), 180
                                                            attribute), 324
                                                                                                                                                                                                                                                                                                                                                                                                                   _contributions_with_user_paper_submission_right:
group (indico.modules.designer.placeholders.EventDatesPlaceholderin module indico.modules.events.papers.util),
                                                              attribute), 319
                                                                                                                                                                                                                                                                                                                                                                                                                                             204
 group (indico.modules.designer.placeholders.EventDescriptionPlaceholderboa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (in-
                                                              attribute), 319
                                                                                                                                                                                                                                                                                                                                                                                                                                            dico.modules.events.models.events.Event
{\tt group} \ (indico.modules. designer. placeholders. Event Logo Placeholder_{attribute}), \ 124
                                                               attribute), 325
                                                                                                                                                                                                                                                                                                                                                                              has_effective_icon
{\tt group} \ (indico.modules. designer. placeholders. Event Org Text Placeholders. at egories. Category the properties of the properties 
                                                              attribute), 320
                                                                                                                                                                                                                                                                                                                                                                                                                                             attribute), 265
\verb|group| (indico.modules.designer.placeholders. EventRoomPlaceholderd (indico.modules.events.abstracts.models.call\_for\_abstracts.Complexed (indico.modules.events.abstracts.models.call\_for\_abstracts.Complexed (indico.modules.events.abstracts.models.call\_for\_abstracts.Complexed (indico.modules.events.abstracts.models.call\_for\_abstracts.Complexed (indico.modules.events.abstracts.models.call\_for\_abstracts.Complexed (indico.modules.events.abstracts.models.call\_for\_abstracts.Complexed (indico.modules.events.abstracts.models.call\_for\_abstracts.Complexed (indico.modules.events.abstracts.models.call\_for\_abstracts.Complexed (indico.modules.events.abstracts.models.call\_for\_abstracts.Complexed (indico.modules.events.abstracts.call\_for\_abstracts.Complexed (indico.modules.events.abstracts.call\_for\_abstracts.Complexed (indico.modules.events.abstracts.call\_for\_abstracts.Complexed (indico.modules.events.abstracts.call\_for\_abstracts.Complexed (indico.modules.events.abstracts.call\_for\_abstracts.Complexed (indico.modules.events.abstracts.call\_for\_abstracts.Complexed (indico.modules.events.abstracts.call\_for\_abstracts.complexed (indico.modules.events.abstracts.call) (indico.modules.events.abstracts.complexed (indico.modules.events.abstracts.abstracts.complexed (indico.modules.events.abstracts.abstracts.complexed (indico.modules.events.abstracts.complexed (indico.modules.events.abstracts.abstracts.abstracts.complexed (indico.modules.events.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstra
                                                               attribute), 324
                                                                                                                                                                                                                                                                                                                                                                                                                                             attribute), 148
 \verb|group| (indico.modules.designer.placeholders. Event Speakers Placeholder (indico.modules.events.models.events. Event Speakers Placeholder (indico.modules.events.models.events) | Placeholder (indico.modules.events) | Placeholder (indico.modules.even
                                                              attribute), 324
                                                                                                                                                                                                                                                                                                                                                                                                                                             attribute), 124
 \verb|group| (indico.modules.designer.placeholders. Event Title Placeholders. Event Title Placeholders. (indico.modules.events.papers.models.call\_for\_papers. Call For\_papers. (indico.modules.events.papers.models.call\_for\_papers. (indico.modules.events.papers.papers.models.call\_for\_papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.papers.pa
                                                              attribute), 323
                                                                                                                                                                                                                                                                                                                                                                                                                                             attribute), 193
 \verb|group| (indico.modules.designer.placeholders. Event Venue Placeholder (indico.modules.events.registration.models.forms. Registration (indico.modules.events.registration.models.forms. Registration (indico.modules.events.registration.models.forms) | Placeholder (indico.modules.events.forms) | Placeholder (i
                                                              attribute), 324
                                                                                                                                                                                                                                                                                                                                                                                                                                             attribute), 220
 \verb|group| (indico.modules.designer.placeholders.Registration Ticket QRP laceholders.modules.events.surveys.models.surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Surveys.Sur
                                                              attribute), 321
                                                                                                                                                                                                                                                                                                                                                                                                                                            attribute), 246
 group (indico.modules.events.models.reviews.ProposalReviewMiximuipment()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (in-
                                                            attribute), 134
                                                                                                                                                                                                                                                                                                                                                                                                                                             dico.modules.rb.models.rooms.Room method),
                                                               (indico.modules.groups.core.GroupProxy
                                                                                                                                                                                                                                                                                                                                                                                                                                             291
                                                            tribute), 311
                                                                                                                                                                                                                                                                                                                                                                              has_feature()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (in-
group_attr (indico.modules.events.abstracts.models.reviews.AbstractBesievents.models.events.Event
                                                              attribute), 155
                                                                                                                                                                                                                                                                                                                                                                                                                                            method), 124
 \verb|group_attr| (indico.modules.events.models.reviews.Proposal \c{Reviews.Proposal Reviews.Proposal \c{Reviews.Proposal Reviews.Proposal \c{Reviews.Proposal Reviews.Proposal \c{Reviews.Proposal \c{Reviews.P
                                                              attribute), 134
                                                                                                                                                                                                                                                                                                                                                                                                                                            attribute), 213
 \verb|group_attr| (indico.modules.events.papers.models.reviews.PaperReview.locategories. Category)| | Paper Reviews.Paper Reviews.
                                                              attribute), 199
                                                                                                                                                                                                                                                                                                                                                                                                                                             attribute), 265
 group_by_occurrence_date() (in module in-
                                                                                                                                                                                                                                                                                                                                                                              has logo (indico.modules.categories.models.categories.Category
                                                            dico.modules.rb.util), 301
                                                                                                                                                                                                                                                                                                                                                                                                                                             attribute), 265
\verb|group_id| (indico.modules.networks.models.networks.IPN | \verb|group_id|) (indico.modules.events.models.events.Event) |
                                                            attribute), 325
                                                                                                                                                                                                                                                                                                                                                                                                                                             attribute), 124
 group_proxy_cls
                                                                                                                                                                                                                                                                                                                                         (in-
                                                                                                                                                                                                                                                                                                                                                                            has_member() (indico.modules.groups.core.GroupProxy
                                                            dico.modules.events.models.reviews.ProposalReviewMixin method), 311
                                                            attribute), 134
                                                                                                                                                                                                                                                                                                                                                                              has_note(indico.modules.events.sessions.models.blocks.SessionBlock
 group_proxy_cls
                                                                                                                                                                                                                                                                                                                                         (in-
                                                                                                                                                                                                                                                                                                                                                                                                                                            attribute), 242
                                                            dico.modules.events.papers.models.reviews.PaperReviewphoto (indico.modules.rb.models.rooms.Room at-
                                                            attribute), 199
                                                                                                                                                                                                                                                                                                                                                                                                                                             tribute), 291
 GroupProxy (class in indico.modules.groups.core),
                                                                                                                                                                                                                                                                                                                                                                            has_picture(indico.modules.users.models.users.User
                                                               310
                                                                                                                                                                                                                                                                                                                                                                                                                                             attribute), 273
```

```
has published editables
                                                                                                                                                                                    (in- html field name
                                                                                                                                                                                                                                                                                                                                                                                             (in-
                                 dico.modules.events.contributions.models.contributions.Conditional discounted and discounted and
                                attribute), 170
                                                                                                                                                                                                                                          attribute), 218
has_regform_in_acl
                                                                                                                                                                                                    html_matches()
                                                                                                                                                                                                                                                                                                                                                                                             (in-
                                                                                                                                                                                    (in-
                                 dico.modules.events.models.events.Event
                                                                                                                                                                                                                                           dico.modules.events.notes.models.notes.EventNote
                                attribute), 124
                                                                                                                                                                                                                                           class method), 191
has role()(indico.modules.events.models.persons.EventPerson
                                 method), 128
has sessions for user()
                                                                                                                              (in
                                                                                                                                                  module
                                                                                                                                                                                      in-
                                                                                                                                                                                                        icon (indico.modules.categories.models.categories.Category
                                 dico.modules.events.sessions.util), 245
                                                                                                                                                                                                                                           attribute), 265
(in-
                                 attribute), 148
                                                                                                                                                                                                                                          dico.modules.categories.models.categories.Category
has_started(indico.modules.events.papers.models.call_for_papers:Call_for_papers:
                                attribute), 193
                                                                                                                                                                                                         icon_url (indico.modules.categories.models.categories.Category
has_started(indico.modules.events.registration.models.forms.Registrations)
                                 attribute), 220
                                                                                                                                                                                                         icon url (indico.modules.vc.plugins.VCPluginMixin
has_started(indico.modules.events.surveys.models.surveys.Surveystribute), 315
                                attribute), 246
                                                                                                                                                                                                         \verb|id| (indico.core.oauth.models.applications. OAuthApplication|) \\
                                                                                                                                                                                    (in-
has_stylesheet
                                                                                                                                                                                                                                           attribute), 306
                                 dico.modules.events.models.events.Event
                                                                                                                                                                                                         id (indico.core.oauth.models.applications.OAuthApplicationUserLink
                                attribute), 124
                                                                                                                                                                                                                                           attribute), 307
has user reviewed()
                                                                                                                                                                                    (in-
                                                                                                                                                                                                        id (indico.core.oauth.models.tokens.OAuthToken at-
                                dico.modules.events.papers.models.revisions.PaperRevisiontribute), 309
                                method), 201
                                                                                                                                                                                                                               (indico.core.oauth.models.tokens.TokenModelBase
                                                                                                                                                                                       in-
has_user_tracks()
                                                                                                          (in
                                                                                                                                         module
                                                                                                                                                                                                                                           attribute), 310
                                dico.modules.events.abstracts.util), 158
                                                                                                                                                                                                         id (indico.modules.attachments.models.attachments.Attachment
height
                                          (indico.modules.designer.pdf.TplData
                                                                                                                                                                                       at-
                                                                                                                                                                                                                                          attribute), 282
                                tribute), 319
                                                                                                                                                                                                         id (indico.modules.attachments.models.attachments.AttachmentFile
height_cm (indico.modules.designer.pdf.TplData at-
                                                                                                                                                                                                                                          attribute), 283
                                 tribute), 319
                                                                                                                                                                                                         id (indico.modules.attachments.models.folders.AttachmentFolder
HELP_URL (built-in variable), 51
                                                                                                                                                                                                                                           attribute), 284
\verb|hidden| (indico.modules.networks.models.networks.IPNetworks.IPNetworks.indules.attachments.models.principals.AttachmentFolderPrincipals.attachments.indules.attachments.indules.attachments.indules.attachments.indules.attachments.indules.attachments.indules.attachments.indules.attachments.indules.attachments.indules.attachments.indules.attachments.indules.attachments.indules.attachments.indules.attachments.indules.attachments.indules.attachments.indules.attachments.indules.attachments.indules.attachments.indules.attachments.indules.attachments.indules.attachments.indules.attachments.indules.attachments.indules.attachments.indules.attachments.indules.attachments.indules.attachments.indules.attachments.indules.attachments.indules.attachments.indules.attachments.indules.attachments.indules.attachments.indules.attachments.indules.attachments.indules.attachments.indules.attachments.indules.attachments.indules.attachments.indules.attachments.indules.attachments.indules.attachments.indules.attachments.indules.attachments.indules.attachments.indules.attachments.indules.attachments.attachments.indules.attachments.indules.attachments.indules.attachments.indules.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachment
                                 attribute), 325
                                                                                                                                                                                                                                           attribute), 286
HiddenEnumField (class in indico.web.forms.fields),
                                                                                                                                                                                                         id (indico.modules.attachments.models.principals.AttachmentPrincipal
                                                                                                                                                                                                                                           attribute), 287
HiddenFieldList (class in indico.web.forms.fields),
                                                                                                                                                                                                                                            (indico.modules.auth.models.identities.Identity
                                                                                                                                                                                                                                           attribute), 302
highlight (indico.modules.search.result_schemas.ContributionRequest.Megistration_requests.RegistrationRequest
                                  attribute), 72
                                                                                                                                                                                                                                           attribute), 303
\label{light} \textbf{highlight} (\textit{indico.modules.search.result\_schemas.} \textit{EventNotaResultSabenules.categories.models.categories.} \textit{Category} \\
                                attribute), 73
                                                                                                                                                                                                                                           attribute), 265
\verb|highlight| (indico.modules.search.result\_schemas. Event \verb|Resultibles.modules.categories.models.principals. Category Principals. Ca
                                 attribute), 71
                                                                                                                                                                                                                                           attribute), 267
HighlightSchema
                                                                                                      (class
                                                                                                                                                                                                        id (indico.modules.categories.models.settings.CategorySetting
                                 dico.modules.search.result_schemas), 73
                                                                                                                                                                                                                                           attribute), 268
\verb|html|| (indico.modules.events.layout.models.menu. EventPage | dindico.modules.designer.models.images. Designer Image File | dindico.modules.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.models.designer.mod
                                 attribute), 183
                                                                                                                                                                                                                                          attribute), 317
attribute), 191
                                                                                                                                                                                                                                           attribute), 317
\verb|html| (indico.modules.events.notes.models.notes.EventNoteRevision co.modules.events.abstracts.models.abstracts.Abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.a
                                 attribute), 192
                                                                                                                                                                                                                                          attribute), 145
html field name
                                                                                                                                                                                    (in- id (indico.modules.events.abstracts.models.comments.AbstractComment
                                 dico.modules.events.registration.models.form_fields.Registration_Field
                                 attribute), 217
```

attribute), 174

- id (indico.modules.events.abstracts.models.email_logs.Abstractfinaliaibling/limbus, events.models.principals.EventPrincipal attribute), 150 attribute), 131
- id (indico.modules.events.abstracts.models.email templates.AlsitudictEmodililers.platets.models.references.EventReference attribute), 150 attribute), 131
- attribute), 152 attribute), 132
- id (indico.modules.events.abstracts.models.persons.AbstractBe(isadiEinahodules.events.models.references.ReferenceType attribute), 152 attribute), 132
- id (indico.modules.events.abstracts.models.review_questioniscAlinthathevidellaQuexanonmodels.reviews.ProposalGroupProxy attribute), 153 attribute), 133
- id (indico.modules.events.abstracts.models.review_ratings.AbstfinatiRevinesvRuleingvents.models.series.EventSeries atattribute), 154 tribute), 135
- id (indico.modules.events.abstracts.models.reviews.AbstractReviewdico.modules.events.models.settings.EventSetting attribute), 155 attribute), 135
- id (indico.modules.events.abstracts.settings.BOASortField id (indico.modules.events.models.settings.EventSettingPrincipal attribute), 165 attribute), 136
- id (indico.modules.events.agreements.models.agreements.Agreemditto.modules.events.models.static_list_links.StaticListLink attribute), 166 attribute), 137
- id (indico.modules.events.contributions.models.contributions:Cintlibutiondules.events.notes.models.notes.EventNote attribute), 170 attribute), 191
- id (indico.modules.events.contributions.models.fields.Contributiondfieldhodules.events.notes.models.notes.EventNoteRevision attribute), 192 attribute), 173
- id (indico.modules.events.contributions.models.persons.ContributionPensduleinkvents.papers.models.comments.PaperReviewComment attribute), 194
- id (indico.modules.events.contributions.models.persons.SubiCo(intilbooimtRhrkasndsienkts.papers.models.competences.PaperCompetence attribute), 175 attribute), 195
- id (indico.modules.events.contributions.models.principals.GontfihdtionModulesakvents.papers.models.files.PaperFile attribute), 176 attribute), 195
- id (indico.modules.events.contributions.models.references. Gont inibilition References.papers.models.review_questions.PaperReviewQt attribute), 177 attribute), 197
- id (indico.modules.events.contributions.models.references. Sub Gadicibutiah References. papers. models.review_ratings. PaperReviewRatin attribute), 177 attribute), 198
- id (indico.modules.events.contributions.models.subcontributionism**s**liub.Comodibasionents.papers.models.reviews.PaperReview attribute), 177 attribute), 199
- id (indico.modules.events.contributions.models.types.Contributionalispanodules.events.papers.models.revisions.PaperRevision attribute), 179 attribute), 201
- id (indico.modules.events.layout.models.images.ImageFile id (indico.modules.events.papers.models.templates.PaperTemplate
- attribute), 182 attribute), 202 id (indico.modules.events.layout.models.menu.EventPage id (indico.modules.events.payment.models.transactions.PaymentTransaction
- attribute), 183 attribute), 207 id (indico.modules.events.layout.models.menu.MenuEntry id (indico.modules.events.registration.models.form fields.RegistrationForm attribute), 183 attribute), 217
- id (indico.modules.events.layout.models.menu.TransientMeintKintijco.modules.events.registration.models.form_fields.RegistrationForm attribute), 185 attribute), 218
- $\verb|id| (indico.modules.events.logs.models.entries.EventLogEntripd| (indico.modules.events.registration.models.form_fields.RegistrationFormula (indico.modules.events.registration.models.form_fields.RegistrationFormula (indico.modules.events.registration.models.form_fields.RegistrationFormula (indico.modules.events.registration.models.form_fields.RegistrationFormula (indico.modules.events.registration.models.form_fields.RegistrationFormula (indico.modules.events.registration.models.form_fields.RegistrationFormula (indico.modules.events.registration.models.form_fields.RegistrationFormula (indico.modules.events.registration.models.form_fields.RegistrationFormula (indico.modules.events.registration.models.form_fields.RegistrationFormula (indico.modules.events.registration.models.formula (indico.modules.events.registration.models.formula (indico.modules.events.registration.models.formula (indico.modules.events.registration.models.formula (indico.modules.events.registration.formula (indico.modules.events.registration.formula (indico.modules.events.registration.formula (indico.modules.events.registration.formula (indico.modules.events.formula (indico.modules.events.f$ attribute), 187 attribute), 218
- id (indico.modules.events.models.events.Event at- id (indico.modules.events.registration.models.forms.RegistrationForm tribute), 124 attribute), 220
- (indico.modules.events.models.persons.EventPerson id (indico.modules.events.registration.models.invitations.RegistrationInvitations.registrationInvitations.registrationInvitations.registrationInvitations.registrationInvitations.registrationInvitations.registrationInvitations.registrationInvitations.registrationInvitations.registrationInvitations.registrationInvitations.registrationInvitations.registrationInvitations.registrationInvitations.registrationInvitations.registrationInvitations.registrationInvitations.registrationInvitations.registrationInvitations.registrationInvitations.registrationInvitations.registrationInvitations.registrationInvitations.registrationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvitationInvi attribute), 128 attribute), 222
- attribute), 129 attribute), 223
- id (indico.modules.events.models.persons.PersonLinkBase id (indico.modules.events.registration.models.items.RegistrationFormPerson attribute), 130 attribute), 225

```
id (indico.modules.events.registration.models.items.RegistrationRondisectiondules.rb.models.locations.Location
                                                                 tribute), 295
         attribute), 225
id (indico.modules.events.registration.models.items.RegistrationflindinGentodules.rb.models.map areas.MapArea at-
         attribute), 226
                                                                 tribute), 296
id (indico.modules.events.registration.models.registrations.Registration.modules.rb.models.photos.Photo attribute),
         attribute), 213
id (indico.modules.events.reminders.models.reminders.EventRémilidomodules.rb.models.reservation edit logs.ReservationEditLog
         attribute), 235
                                                                 attribute), 300
id (indico.modules.events.requests.models.requests.Requestid (indico.modules.rb.models.reservations.Reservation
                                                                 attribute), 298
         attribute), 237
id (indico.modules.events.sessions.models.blocks.SessionBlack(indico.modules.rb.models.reservations.ReservationLink
         attribute), 242
                                                                 attribute), 299
id (indico.modules.events.sessions.models.persons.SessionBladifiedisonlindlales.rb.models.room_attributes.RoomAttribute
         attribute), 243
                                                                 attribute), 292
id (indico.modules.events.sessions.models.principals.Session@rincipaldo.modules.rb.models.rooms.Room attribute),
         attribute), 243
                                                                 291
id (indico.modules.events.sessions.models.sessions.Sessionid (indico.modules.users.models.affiliations.UserAffiliation
         attribute), 240
                                                                 attribute), 276
id (indico.modules.events.static.models.staticStaticSite id (indico.modules.users.models.emails.UserEmail at-
         attribute), 262
                                                                 tribute), 276
id (indico.modules.events.surveys.models.items.SurveyItemid (indico.modules.users.models.settings.UserSetting at-
         attribute), 248
                                                                 tribute), 277
id (indico.modules.events.surveys.models.items.SurveyQuestion (indico.modules.users.models.users.User attribute),
         attribute), 249
id (indico.modules.events.surveys.models.items.SurveySection (indico.modules.vc.models.vc_rooms.VCRoom at-
         attribute), 249
                                                                 tribute), 312
attribute), 250
                                                                 attribute), 313
id (indico.modules.events.surveys.models.submissions.Surveys\text{Submission} (indico.modules.users.models.users.ProfilePictureSource
         attribute), 251
                                                                 attribute), 272
id (indico.modules.events.surveys.models.surveys.Survey identifier (indico.modules.auth.models.identities.Identity
         attribute), 246
                                                                 attribute), 302
id (indico.modules.events.timetable.models.breaks.Break identifier (indico.modules.events.agreements.models.agreements.Agre
         attribute), 253
                                                                 attribute), 166
id (indico.modules.events.timetable.models.entries.TimetableEntryifier (indico.modules.events.models.persons.EventPerson
                                                                 attribute), 128
         attribute), 255
id (indico.modules.events.tracks.models.principals.TrackPrintipal ifier (indico.modules.events.registration.models.forms.Registratio
         attribute), 261
                                                                 attribute), 220
id (indico.modules.events.tracks.models.tracks.Track at- identifier (indico.modules.groups.core.GroupProxy
         tribute), 259
                                                                 attribute), 311
     (indico.modules.groups.models.groups.LocalGroup identifier (indico.modules.users.models.users.User
         attribute), 310
                                                                 attribute), 273
id (indico.modules.networks.models.networks.IPNetworkGroupntities (indico.modules.users.models.users.User
         attribute), 326
                                                                 attribute), 273
     (indico.modules.news.models.news.NewsItem at- Identity
                                                                              (class
                                                                                              in
                                                                                                           in-
         tribute), 326
                                                                 dico.modules.auth.models.identities), 302
id(indico.modules.rb.models.blocked_rooms.BlockedRoomidentity_data
                                                                                                          (in-
                                                                 dico.modules.auth.models.registration_requests.RegistrationRequ
         attribute), 294
id (indico.modules.rb.models.blocking_principals.BlockingPrincipal attribute), 303
         attribute), 295
                                                        IDENTITY_PROVIDERS (built-in variable), 48
     (indico.modules.rb.models.blockings.Blocking
                                                        IDPlaceholder
                                                                                   (class
                                                                                                 in
                                                                                                           in-
                                                                 dico.modules.events.registration.placeholders.registrations),
         tribute), 294
id (indico.modules.rb.models.equipment.EquipmentType
```

IgnoredTransactionAction, 207

attribute), 295

```
287
image_created
                                                (in
                                                                   module
                                                                                               in-
                 dico.core.signals.event management), 87
                                                                                                        indico.modules.auth (module), 302
image deleted
                                                                                                        indico.modules.auth.models.identities
                                                (in
                                                                   module
                                                                                               in-
                                                                                                                          (module), 302
                 dico.core.signals.event_management), 87
ImageFile
                                          (class
                                                                                                        indico.modules.auth.models.registration_requests
                 dico.modules.events.layout.models.images),
                                                                                                                         (module), 303
                 182
                                                                                                        indico.modules.auth.util (module), 303
ImagePreviewer
                                                                                                       indico.modules.categories (module), 263
                                                   (class
                                                                                               in-
                 dico.modules.attachments.preview), 288
                                                                                                        indico.modules.categories.fields
                                                                                                                         ule), 333
impersonate_user()
                                                                        module
                                                         (in
                                                                                               in-
                 dico.modules.auth.util), 303
                                                                                                        indico.modules.categories.models.categories
import_contributions_from_csv() (in mod-
                                                                                                                         (module), 263
                         indico.modules.events.contributions.util),
                                                                                                        indico.modules.categories.models.principals
                 180
                                                                                                                         (module), 267
import_registrations_from_csv() (in mod-
                                                                                                        indico.modules.categories.models.settings
                 ule indico.modules.events.registration.util), 229
                                                                                                                          (module), 268
import_tasks (in module indico.core.signals.core),
                                                                                                        indico.modules.categories.operations
                 84
                                                                                                                         (module), 268
imported (in module indico.core.signals.event), 85
                                                                                                        indico.modules.categories.serialize
in progress (indico.modules.events.abstracts.models.abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abst
                 attribute), 147
                                                                                                        indico.modules.categories.settings (mod-
include authors
                                                                                             (in-
                 dico.modules.events.abstracts.models.email_templates\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndrid\distractEndri
                 attribute), 151
include coauthors
                                                                                             (in- indico.modules.designer (module), 316
                 dico.modules.events.abstracts.models.email_templatesiAbstractEmbelstegner.models.images
                 attribute), 151
                                                                                                                         (module), 316
include_description
                                                                                             (in- indico.modules.designer.models.templates
                 dico.modules.events.reminders.models.reminders.EventRem(mdedule), 317
                 attribute), 235
                                                                                                        indico.modules.designer.pdf (module), 318
include_submitter
                                                                                             (in- indico.modules.designer.placeholders
                 dico.modules.events.abstracts.models.email_templates.AbstraceBula)[Telmplate
                                                                                                        indico.modules.designer.util (module), 318
                 attribute), 151
include_summary
                                                                                             (in- indico.modules.events(module), 121
                 dico.modules.events.reminders.models.reminders.EventRemindedules.events.abstracts (module),
                 attribute), 235
indico.core.oauth (module), 304
                                                                                                        indico.modules.events.abstracts.fields
indico.core.oauth.models.applications
                                                                                                                         (module), 328
                 (module), 304
                                                                                                        indico.modules.events.abstracts.models.abstracts
indico.core.oauth.models.tokens (module),
                                                                                                                         (module), 144
                                                                                                        indico.modules.events.abstracts.models.call for abs
indico.core.plugins (module), 77
                                                                                                                          (module), 148
indico.modules.attachments (module), 281
                                                                                                        indico.modules.events.abstracts.models.comments
indico.modules.attachments.models.attachments (module), 149
                                                                                                        indico.modules.events.abstracts.models.email_logs
                 (module), 281
indico.modules.attachments.models.folders
                                                                                                                          (module), 150
                 (module), 283
                                                                                                        indico.modules.events.abstracts.models.email_templa
indico.modules.attachments.models.principals
                                                                                                                         (module), 150
                 (module), 285
                                                                                                        indico.modules.events.abstracts.models.fields
indico.modules.attachments.operations
                                                                                                                          (module), 151
                 (module), 287
                                                                                                        indico.modules.events.abstracts.models.files
indico.modules.attachments.preview(mod-
                                                                                                                         (module), 152
                 ule), 288
                                                                                                        indico.modules.events.abstracts.models.persons
                                                                                                                          (module), 152
indico.modules.attachments.util (module),
```

```
indico.modules.events.abstracts.models.rehdted.modukes.events.layout.models.menu
       (module), 153
                                                   (module), 183
indico.modules.events.abstracts.models.rendewogmedtlessevents.layout.util (mod-
                                                  ule), 185
       (module), 153
indico.modules.events.abstracts.models.rewdewormodndes.events.logs(module), 186
       (module), 154
                                           indico.modules.events.logs.models.entries
indico.modules.events.abstracts.models.reviews (module), 186
       (module), 154
                                           indico.modules.events.logs.renderers
indico.modules.events.abstracts.operations
                                                   (module), 188
                                           indico.modules.events.logs.util (module),
       (module), 156
indico.modules.events.abstracts.placeholders
                                                  188
       (module), 159
                                           indico.modules.events.models.events
indico.modules.events.abstracts.settings
                                                  (module), 121
       (module), 164
                                           indico.modules.events.models.persons
indico.modules.events.abstracts.util
                                                   (module), 127
       (module), 157
                                           indico.modules.events.models.principals
indico.modules.events.agreements (mod-
                                                   (module), 130
                                           indico.modules.events.models.references
indico.modules.events.agreements.models.agreeme(ntodule), 131
       (module), 166
                                           indico.modules.events.models.reviews
indico.modules.events.agreements.placeholders (module), 133
       (module), 168
                                           indico.modules.events.models.series
                                                   (module), 135
indico.modules.events.agreements.util
       (module), 167
                                           indico.modules.events.models.settings
                                                   (module), 135
indico.modules.events.contributions
                                           indico.modules.events.models.static_list_links
       (module), 168
                                                  (module), 136
indico.modules.events.contributions.fields
       (module), 331
                                           indico.modules.events.notes (module), 190
indico.modules.events.contributions.modeladcontmodulesnevents.notes.models.notes
       (module), 169
                                                   (module), 190
indico.modules.events.contributions.modelsdfcelmsdules.events.notes.util
                                                                                 (mod-
       (module), 172
                                                   ule), 192
indico.modules.events.contributions.modelsdpeosmodules.events.operations
                                                  ule), 137
       (module), 174
indico.modules.events.contributions.modelsdpropmodales.events.papers (module), 192
       (module), 175
                                           indico.modules.events.papers.fields
indico.modules.events.contributions.models.refe(nenduk) 331
       (module), 176
                                           indico.modules.events.papers.models.call_for_papers
indico.modules.events.contributions.models.subdomodulehul@hul@ions
       (module), 177
                                           indico.modules.events.papers.models.comments
indico.modules.events.contributions.models.type(module), 194
       (module), 178
                                           indico.modules.events.papers.models.competences
indico.modules.events.contributions.operations (module), 195
       (module), 179
                                           indico.modules.events.papers.models.files
indico.modules.events.contributions.util
                                                   (module), 195
       (module), 180
                                           indico.modules.events.papers.models.papers
indico.modules.events.features (module),
                                                   (module), 196
                                           indico.modules.events.papers.models.review_question
indico.modules.events.features.util
                                                   (module), 197
       (module), 181
                                           indico.modules.events.papers.models.review_ratings
indico.modules.events.fields(module), 327
                                                   (module), 198
indico.modules.events.layout (module), 182
                                           indico.modules.events.papers.models.reviews
indico.modules.events.layout.models.images
                                                   (module), 198
       (module), 182
                                           indico.modules.events.papers.models.revisions
```

```
(module), 200
                                                  (module), 237
indico.modules.events.papers.models.tempiadėso.modules.events.requests.models.requests
       (module), 202
                                                  (module), 236
indico.modules.events.papers.models.userinditoihodibes.events.requests.util
       (module), 203
                                                   (module), 237
indico.modules.events.papers.operations indico.modules.events.sessions (module),
       (module), 203
                                                   239
indico.modules.events.papers.util (mod- indico.modules.events.sessions.fields
       ule), 204
                                                   (module), 333
                                  (module), indico.modules.events.sessions.models.blocks
indico.modules.events.payment
                                                  (module), 241
indico.modules.events.payment.models.tramsdctcomsdules.events.sessions.models.persons
                                                  (module), 243
       (module), 207
indico.modules.events.payment.plugins
                                           indico.modules.events.sessions.models.principals
       (module), 209
                                                   (module), 243
indico.modules.events.payment.util (mod- indico.modules.events.sessions.models.sessions
                                                  (module), 239
       ule), 208
indico.modules.events.persons
                                  (module), indico.modules.events.sessions.operations
                                                  (module), 244
indico.modules.events.persons.operationsindico.modules.events.sessions.util
       (module), 210
                                                  (module), 244
indico.modules.events.persons.placeholderadico.modules.events.settings (module),
                                                   142, 204
       (module), 210
indico.modules.events.registration (mod- indico.modules.events.static (module), 261
                                           indico.modules.events.static.models.static
       ule), 212
indico.modules.events.registration.models.form_(fixedula), 262
       (module), 217
                                           indico.modules.events.static.util (mod-
indico.modules.events.registration.models.formsule), 263
                                           indico.modules.events.surveys
       (module), 219
                                                                              (module),
indico.modules.events.registration.models.invit245ions
       (module), 221
                                           indico.modules.events.surveys.models.items
indico.modules.events.registration.models.items(module), 248
                                           indico.modules.events.surveys.models.submissions
       (module), 223
indico.modules.events.registration.models.regis(module), 250
       (module), 212
                                           indico.modules.events.surveys.models.surveys
indico.modules.events.registration.placeholders(viordulet,2415ons
       (module), 231
                                           indico.modules.events.surveys.operations
indico.modules.events.registration.placeholders(module),t254tions
       (module), 229
                                           indico.modules.events.surveys.util(mod-
indico.modules.events.registration.settings
                                                  ule), 252
                                           indico.modules.events.timetable (module),
       (module), 232
indico.modules.events.registration.stats
                                                  253
                                           indico.modules.events.timetable.models.breaks
       (module), 233
indico.modules.events.registration.util
                                                  (module), 253
                                           indico.modules.events.timetable.models.entries
       (module), 227
                                                   (module), 254
indico.modules.events.reminders (module),
                                           indico.modules.events.timetable.operations
indico.modules.events.reminders.models.reminder(module), 256
       (module), 234
                                           indico.modules.events.timetable.reschedule
indico.modules.events.reminders.util
                                                  (module), 258
       (module), 236
                                           indico.modules.events.timetable.util
                                                  (module), 257
indico.modules.events.requests (module),
                                           indico.modules.events.tracks(module), 259
indico.modules.events.requests.base
                                           indico.modules.events.tracks.models.principals
```

```
(module), 260
                                              indico.modules.search.base (module), 70
indico.modules.events.tracks.models.tracksdico.modules.search.result_schemas
                                                      (module), 71
indico.modules.events.tracks.operations indico.modules.users (module), 271
       (module), 261
                                              indico.modules.users.ext (module), 280
                                              indico.modules.users.models.affiliations
indico.modules.events.util (module), 139
indico.modules.groups (module), 310
                                                      (module), 276
indico.modules.groups.core (module), 310
                                              indico.modules.users.models.emails(mod-
indico.modules.groups.models.groups
                                                      ule), 276
       (module), 310
                                              indico.modules.users.models.favorites
indico.modules.groups.util (module), 311
                                                      (module), 276
                                              indico.modules.users.models.settings
indico.modules.networks (module), 325
                                                      (module), 277
indico.modules.networks.fields (module).
                                              indico.modules.users.models.suggestions
indico.modules.networks.models.networks
                                                      (module), 276
       (module), 325
                                              indico.modules.users.models.users (mod-
indico.modules.networks.util (module), 326
                                                      ule), 271
indico.modules.news (module), 326
                                              indico.modules.users.operations (module),
indico.modules.news.models.news (module),
                                              indico.modules.users.util (module), 279
indico.modules.news.util (module), 327
                                              indico.modules.vc (module), 311
indico.modules.rb (module), 289
                                              indico.modules.vc.exceptions (module), 316
indico.modules.rb.models.blocked_rooms
                                              indico.modules.vc.models.vc_rooms (mod-
       (module), 294
                                                      ule), 312
indico.modules.rb.models.blocking_principadsco.modules.vc.plugins (module), 314
       (module), 294
                                              indico.modules.vc.util (module), 314
indico.modules.rb.models.blockings(mod-
                                              indico.web.forms.fields(module), 334
                                              IndicoDateField (class in indico.web.forms.fields),
       ule), 293
indico.modules.rb.models.equipment (mod-
       ule), 295
                                              IndicoDateTimeField
                                                                         (class
                                                                                  in
                                                                                        in-
indico.modules.rb.models.locations (mod-
                                                      dico.web.forms.fields), 340
       ule), 295
                                              IndicoEmailRecipientsField (class in
                                                                                        in-
indico.modules.rb.models.map_areas(mod-
                                                      dico.web.forms.fields), 347
                                              IndicoEnumRadioField
       ule), 296
                                                                          (class
                                                                                  in
                                                                                        in-
indico.modules.rb.models.photos (module).
                                                      dico.web.forms.fields), 341
                                              IndicoEnumSelectField
                                                                          (class
                                                                                   in
                                                                                        in-
indico.modules.rb.models.reservation edit logs dico.web.forms.fields), 341
       (module), 299
                                              IndicoLocationField
                                                                         (class
                                                                                  in
                                                                                        in-
indico.modules.rb.models.reservation_occurrencedico.web.forms.fields), 345
       (module), 300
                                              IndicoMarkdownField
                                                                         (class
                                                                                  in
                                                                                        in-
indico.modules.rb.models.reservations
                                                      dico.web.forms.fields), 345
       (module), 296
                                              IndicoPalettePickerField
                                                                             (class
                                                                                   in
                                                                                        in-
                                                      dico.web.forms.fields), 339
indico.modules.rb.models.room attributes
       (module), 292
                                              IndicoPasswordField
                                                                         (class
                                                                                  in
                                                                                        in-
                                                      dico.web.forms.fields), 338
indico.modules.rb.models.room_bookable_hours
       (module), 293
                                              IndicoPlugin (class in indico.core.plugins), 77
indico.modules.rb.models.room_nonbookablendecobdaginBlueprint
                                                                          (class
                                                                                        in-
       (module), 293
                                                      dico.core.plugins), 79
                                    (module),
indico.modules.rb.models.rooms
                                              IndicoPluginBlueprintSetupState (class in
       289
                                                      indico.core.plugins), 79
indico.modules.rb.models.util
                                              IndicoProtectionField
                                                                          (class
                                     (module),
                                                                                   in
                                                                                        in-
                                                      dico.web.forms.fields), 345
indico.modules.rb.statistics (module), 302
                                              IndicoQuerySelectMultipleCheckboxField
                                                      (class in indico.web.forms.fields), 345
indico.modules.rb.util (module), 301
```

```
IndicoQuerySelectMultipleField (class in in-
                                                                                                                                    attribute), 240
                  dico.web.forms.fields), 344
                                                                                                                 init () (indico.core.plugins.IndicoPlugin method), 78
IndicoRadioField
                                                           (class
                                                                                                                 init () (indico.modules.events.payment.plugins.PaymentPluginMixin
                  dico.web.forms.fields), 334
                                                                                                                                    method), 209
IndicoSearchProvider
                                                                   (class
                                                                                                       in-
                                                                                                                 init()
                                                                                                                                            (indico.modules.vc.plugins.VCP lugin Mixin\\
                  dico.modules.search.base), 69, 70
                                                                                                                                    method), 315
IndicoSelectMultipleCheckboxBooleanFieldinitial_statuses
                                                                                                                                                                                                                       (in-
                   (class in indico.web.forms.fields), 346
                                                                                                                                    dico.modules.events.payment.models.transactions.TransactionStates
{\tt IndicoSelectMultipleCheckboxField} \ \ ({\it class}
                                                                                                                                    attribute), 208
                   in indico.web.forms.fields), 334
                                                                                                                  inject_bundle
                                                                                                                                                                                           module
                                                                                                                                                                                                                         in-
IndicoSinglePalettePickerField (class in in-
                                                                                                                                    dico.core.signals.plugin), 88
                  dico.web.forms.fields), 339
                                                                                                                  inject_bundle() (indico.core.plugins.IndicoPlugin
                                                                                                       in-
IndicoStaticTextField
                                                                                                                                    method), 78
                                                                     (class
                                                                                          in
                  dico.web.forms.fields), 338
                                                                                                                  inject_vars_js()
                                                                                                                                                                                                                       (in-
{\tt IndicoTagListField}
                                                                                                                                    dico.core.plugins.IndicoPlugin
                                                                                                                                                                                                             method),
                                                               (class
                                                                                       in
                                                                                                       in-
                  dico.web.forms.fields), 338
IndicoThemeSelectField
                                                                                                                 input_type (indico.modules.events.registration.models.form_fields.Regi
                                                                      (class
                                                                                           in
                                                                                                       in-
                  dico.modules.events.fields), 328
                                                                                                                                    attribute), 217
IndicoTimeField (class in indico.web.forms.fields),
                                                                                                                 input_type (indico.modules.events.registration.models.form_fields.Regi
                                                                                                                                    attribute), 218
IndicoTimezoneSelectField
                                                                            (class
                                                                                                                 input_type (indico.modules.events.registration.models.items.Registration
                  dico.web.forms.fields), 341
                                                                                                                                    attribute), 223
IndicoWeekDayRepetitionField (class in in-
                                                                                                                 input_type (indico.modules.events.registration.models.items.Registration
                   dico.web.forms.fields), 346
                                                                                                                                    attribute), 225
info(indico.modules.categories.models.categories.EventMensore Mensore Mensor
                  attribute), 267
                                                                                                                                    attribute), 225
info(indico.modules.rb.models.reservation_edit_logs.Reservation_Edit_pog(indico.modules.events.registration.models.items.Registratio
                  attribute), 300
                                                                                                                                    attribute), 226
inherit_location
                                                                                                     (in- insert () (indico.modules.events.layout.models.menu.MenuEntry
                  dico.modules.events.contributions.models.contributions.Connebuoib), 183
                  attribute), 170
                                                                                                                  internal_link
inherit_location
                                                                                                     (in-
                                                                                                                                    dico.modules.events.layout.models.menu.MenuEntryType
                  dico.modules.events.models.events.Event
                                                                                                                                    attribute), 184
                  attribute), 124
                                                                                                                  introduction (indico.modules.events.registration.models.forms.Registr
inherit location
                                                                                                     (in-
                                                                                                                                    attribute), 220
                  dico.modules.events.sessions.models.blocks.SessionBtocks.uction (indico.modules.events.surveys.models.surveys.Survey
                  attribute), 242
                                                                                                                                    attribute), 246
inherit_location
                                                                                                     (in- InvalidManualTransactionAction, 207
                   dico.modules.events.sessions.models.sessions.SessīonvalidTransactionAction, 207
                                                                                                                  InvalidTransactionStatus, 207
                  attribute), 240
inherit_location
                                                                                                              InvitationLinkPlaceholder
                                                                                                                                                                                           (class in
                  dico.modules.events.timetable.models.breaks.Break
                                                                                                                                    dico.modules.events.registration.placeholders.invitations),
                  attribute), 253
inheriting_have_acl
                                                                                                     (in- invitations (indico.modules.events.registration.models.forms.Registration
                  dico.modules.categories.models.categories.Category
                                                                                                                                    attribute), 220
                  attribute), 265
                                                                                                                  InvitationState
                                                                                                                                                                           (class
                                                                                                                                                                                                      in
                                                                                                                                                                                                                         in-
inheriting_have_acl
                                                                                                     (in-
                                                                                                                                    dico.modules.events.registration.models.invitations),
                  dico.modules.events.contributions.models.contributions.Contribution
                  attribute), 170
                                                                                                                  \verb"invited" (indico. modules. events. abstracts. models. abstracts. Abstract Publication (indico. modules. events. abstracts. models. abstracts. abstracts. Abstract Publication (indico. modules. events. abstracts. models. abstracts. abstract
inheriting_have_acl
                                                                                                     (in-
                                                                                                                                    attribute), 147
                  dico. modules. events. models. events. Event\\
                                                                                                                  \verb"invited" (indico.modules.events.abstracts.models.abstracts.AbstractState
                  attribute), 124
                                                                                                                                    attribute), 147
inheriting_have_acl
                                                                                                     (in- invited_dt (indico.modules.events.models.persons.EventPerson
```

attribute), 128

dico.modules.events.sessions.models.sessions.Session

```
ip_network_group
                                                                                                                                                               (in- IPNetwork
                                                                                                                                                                                                                                                           (class
                                                                                                                                                                                                                                                                                                                                                    in-
                             dico.modules.attachments.models.principals.AttachmentFoldlieB.minadplds.networks.models.networks),
                             attribute), 286
                                                                                                                                                                                                                325
ip_network_group
                                                                                                                                                               (in- IPNetworkGroup
                                                                                                                                                                                                                                                                                                                                                    in-
                                                                                                                                                                                                                                                                         (class
                                                                                                                                                                                                                                                                                                                    in
                             dico.modules.attachments.models.principals.AttachmentPrintiipanhodules.networks.models.networks),
                                                                                                                                                                                                               325
                             attribute), 287
                                                                                                                                                               (in-is\_accepted(indico.modules.rb.models.reservations.Reservation))
ip_network_group
                             dico.modules.categories.models.principals.CategoryPrincipaltribute), 298
                             attribute), 267
                                                                                                                                                                                  is_active (indico.modules.events.contributions.models.fields.Contributi
ip_network_group
                                                                                                                                                               (in-
                                                                                                                                                                                                               attribute), 173
                             dico.modules.events.contributions.models.principals.ContributionRimaipallules.events.registration.models.forms.Registration
                             attribute), 176
                                                                                                                                                                                                               attribute), 220
                                                                                                                                                               (in-\verb|is_active| (indico.modules.events.registration.models.registrations.Registration)) and the property of the property of
ip_network_group
                             dico. modules. events. models. principals. Event Principal \\
                                                                                                                                                                                                               attribute), 213
                                                                                                                                                                                  is_active(indico.modules.events.surveys.models.surveys.Survey
                             attribute), 131
ip_network_group
                                                                                                                                                               (in-
                                                                                                                                                                                                               attribute), 246
                             attribute), 136
                                                                                                                                                                                                               class method), 280
                                                                                                                                                               (in- is_active_at()
ip_network_group
                             dico.modules.events.sessions.models.principals.SessionPrindipalmodules.rb.models.blockings.Blocking
                             attribute), 244
                                                                                                                                                                                                               method), 294
ip_network_group
                                                                                                                                                               (in- is_admin (indico.modules.users.models.users.User at-
                             dico.modules.events.tracks.models.principals.TrackPrincipalribute), 273
                             attribute), 261
                                                                                                                                                                                  is_always_visible
                                                                                                                                                                                                               dico. modules. attachments. models. folders. Attachment Folder\\
ip_network_group
                                                                                                                                                               (in-
                             dico.modules.rb.models.blocking_principals.BlockingPrincipatribute), 284
                             attribute), 295
                                                                                                                                                                                  is_anonymous (indico.modules.events.surveys.models.submissions.Surve
ip_network_group_id
                                                                                                                                                               (in-
                                                                                                                                                                                                               attribute), 251
                             dico.modules.attachments.models.principals.AttachmentFolderPericiptileo.modules.rb.models.reservations.Reservation
                             attribute), 286
                                                                                                                                                                                                               attribute), 298
                                                                                                                                                               (in-\verb|is_author| (indico.modules.events.contributions.models.persons.Contributions.models.persons.Contributions.models.persons.Contributions.models.persons.Contributions.models.persons.Contributions.models.persons.Contributions.models.persons.Contributions.models.persons.Contributions.models.persons.Contributions.models.persons.Contributions.models.persons.Contributions.models.persons.Contributions.models.persons.Contributions.models.persons.Contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.co
ip_network_group_id
                             dico.modules.attachments.models.principals.AttachmentPrinatipidblute), 174
                             attribute), 287
                                                                                                                                                                                  is_auto_confirm
                                                                                                                                                                                                               dico.modules.rb.models.rooms.Room attribute),
ip_network_group_id
                                                                                                                                                               (in-
                             dico.modules.categories.models.principals.CategoryPrincipal1
                             attribute), 267
                                                                                                                                                                                  is_blocked (indico.modules.users.models.users.User
ip_network_group_id
                                                                                                                                                               (in-
                                                                                                                                                                                                               attribute), 273
                             dico.modules.events.contributions.models.principals.ContributiontPrincipal
                             attribute), 176
                                                                                                                                                                                                               dico. modules. rb. models. reservations. Reservation\\
ip_network_group_id
                                                                                                                                                                                                               method), 298
                                                                                                                                                               (in-
                             {\it dico.modules.events.models.principals.EventPrincipal} {\it booking\_start\_within\_grace\_period()}
                             attribute), 131
                                                                                                                                                                                                               (in module indico.modules.rb.util), 301
                                                                                                                                                               (in- is_cancelled (indico.modules.events.registration.models.registrations.registrations.registrations.registration.models.registrations.registration.models.registrations.registration.models.registrations.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.r
ip_network_group_id
                             dico.modules.events.models.settings.EventSettingPrincipal attribute), 213
                                                                                                                                                                                  \verb|is_cancelled| (indico.modules.rb.models.reservation\_occurrences. Reservation\_occurrences. Re
                             attribute), 136
ip_network_group_id
                                                                                                                                                                                                               attribute), 300
                                                                                                                                                               (in-
                             dico.modules.events.sessions.models.principals.SessionePrincipaled (indico.modules.rb.models.reservations.Reservation
                                                                                                                                                                                                               attribute), 298
                             attribute), 244
ip_network_group_id
                                                                                                                                                               (in-is\_clonable\ (indico.modules.designer.models.templates.DesignerTemplates.DesignerTemplates)
                             dico.modules.events.tracks.models.principals.TrackPrincipalttribute), 317
                             attribute), 261
                                                                                                                                                                                  is_currency_shown
                                                                                                                                                                                                                                                                                                                                                 (in-
                                                                                                                                                                                                               dico.modules.events.registration.stats.FieldStats
ip_network_group_id
                                                                                                                                                               (in-
                             dico.modules.rb.models.blocking_principals.BlockingPrincipatribute), 234
                             attribute), 295
                                                                                                                                                                                  is_currency_shown
                                                                                                                                                                                                                                                                                                                                                 (in-
```

```
dico.modules.events.registration.stats.StatsBase is_deleted (indico.modules.rb.models.rooms.Room
                     attribute), 234
                                                                                                                                                             attribute), 291
is_default (indico.modules.attachments.models.folders.AttachmentFolderindico.modules.users.models.users.User
                                                                                                                                                             attribute), 273
                      attribute), 284
is_default (indico.modules.events.layout.models.menu.EventPage endant_of()
                                                                                                                                                                                                                                                               (in-
                                                                                                                                                             dico.modules.categories.models.categories.Category
                     attribute), 183
is_default (indico.modules.rb.models.map_areas.MapArea
                                                                                                                                                            method), 265
                      attribute), 296
                                                                                                                                       is_empty (indico.modules.categories.models.categories.Category
is_deleted (indico.modules.attachments.models.attachments.Attachtmete), 265
                                                                                                                                      is_empty(indico.modules.events.surveys.models.submissions.SurveyAnsw
                      attribute), 282
is_deleted (indico.modules.attachments.models.folders.Attachmentstiollete), 251
                                                                                                                                      is_enabled(indico.core.oauth.models.applications.OAuthApplication
                      attribute), 284
is_deleted (indico.modules.categories.models.categories.Categorittribute), 306
                     attribute), 265
                                                                                                                                      is_enabled(indico.modules.events.layout.models.menu.MenuEntry
is_deleted(indico.modules.events.abstracts.models.abstracts.Abstractibute), 183
                      attribute), 145
                                                                                                                                       is_enabled(indico.modules.events.registration.models.form_fields.Regi
is_deleted (indico.modules.events.abstracts.models.comments.Abstracthiam) new files and a second comments of the comments of t
                                                                                                                                      is_enabled(indico.modules.events.registration.models.form_fields.Regi
                     attribute), 149
is_deleted(indico.modules.events.abstracts.models.review_questiontsiBubsa);aclBeviewQuestion
                      attribute), 153
                                                                                                                                      is_enabled(indico.modules.events.registration.models.items.Registration
is_deleted(indico.modules.events.contributions.models.contributions);ibldion
                                                                                                                                      is_enabled(indico.modules.events.registration.models.items.Registration
                     attribute), 170
is_deleted (indico.modules.events.contributions.models.subcontributions)
                                                                                                                                       is enabled (indico.modules.events.registration.models.items.Registration
                      attribute), 178
is deleted (indico.modules.events.models.events.Event
                                                                                                                                                            attribute), 226
                     attribute), 124
                                                                                                                                      is_enabled(indico.modules.events.registration.models.items.Registration
is_deleted(indico.modules.events.notes.models.notes.EventNote attribute), 226
                     attribute), 191
                                                                                                                                      is_deleted(indico.modules.events.papers.models.comments.PaperReview)Comment
                     attribute), 194
                                                                                                                                      is_expired() (indico.core.oauth.models.tokens.TokenModelBase
is_deleted (indico.modules.events.papers.models.review_questionsn.PdyochRedidowQuestion
                      attribute), 197
                                                                                                                                       is_feature_enabled()
                                                                                                                                                                                                                    (in
                                                                                                                                                                                                                                     module
                                                                                                                                                                                                                                                                 in-
is_deleted (indico.modules.events.registration.models.form_fieldsdRequistodtilesFormTSicfeditures.util), 181
                                                                                                                                      {\tt is\_field} (indico.modules.events.registration.models.items.RegistrationF
                      attribute), 217
is_deleted(indico.modules.events.registration.models.form_fieldsdktegbstreitid2ftFormPersonalDataField
                                                                                                                                      is_flat_view_enabled
                     attribute), 218
is_deleted (indico.modules.events.registration.models.forms.RegistrationWhiles.categories.models.categories.Category
                      attribute), 220
                                                                                                                                                             attribute), 265
is_deleted (indico.modules.events.registration.models.items.)RegistrationModules.attachments.models.folders.AttachmentFolde
                      attribute), 224
                                                                                                                                                             attribute), 284
is deleted (indico.modules.events.registration.models.items.Registration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistration.models.items.negistrati
                                                                                                                                                             attribute), 292
                      attribute), 225
is_deleted (indico.modules.events.registration.models.items.Registrationificationificationies.users.models.suggestions.SuggestedCatego.
                      attribute), 225
                                                                                                                                                             attribute), 277
is_deleted (indico.modules.events.registration.models.itizms.RegistratifonmsTidnes.designer.placeholders.EventLogoPlaceholder
                      attribute), 226
                                                                                                                                                             attribute), 325
is_deleted (indico.modules.events.registration.models.registriationgæ Ringlistramiondules.designer.placeholders.RegistrationTicketQRPl
                                                                                                                                                             attribute), 322
is_deleted(indico.modules.events.sessions.models.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions.sessions
                      attribute), 240
                                                                                                                                                             dico.modules.events.abstracts.models.abstracts.Abstract
is_deleted (indico.modules.events.surveys.models.surveys.Survey attribute), 145
                     attribute), 246
                                                                                                                                       is_in_final_state
is\_deleted (indico.modules.rb.models.locations.Location
                                                                                                                                                            dico.modules.events.models.reviews.ProposalMixin
                      attribute), 295
                                                                                                                                                             attribute), 134
```

```
is_in_final_state
                                                                                                    (in-
                                                                                                                                  attribute), 184
                  dico.modules.events.papers.models.papers.Paper is_overdue (indico.modules.events.reminders.models.reminders.EventR
                  attribute), 196
                                                                                                                                  attribute), 235
is_internal_link
                                                                                                    (in- is_owned_by()
                                                                                                                                                                                                                    (in-
                  dico. modules. events. layout. models. menu. Menu Entry Mixin \ dico. modules. rb. models. reservations. Reservation \ dico. modules. reservations \ dico. modules. \ dico. \ di
                                                                                                                                  method), 298
is_judge() (indico.modules.events.papers.models.call_fors_popers_GallFor.Fuplarkes.events.layout.models.menu.MenuEntryMixin
                  method), 193
                                                                                                                                  attribute), 184
is_last_revision
                                                                                                    (in-is\_paid\ (indico.modules.events.registration.models.registrations.Registrations)
                  dico.modules.events.papers.models.revisions.PaperRevisionattribute), 213
                                                                                                               is_paper_reviewer()
is_link (indico.modules.events.layout.models.menu.MenuEntryMixithico.modules.events.contributions.models.contributions.Contribu
                  attribute), 184
                                                                                                                                  method), 170
is_locked(indico.modules.events.models.events.Event is_parallel()
                                                                                                                                                                                                                    (in-
                  attribute), 124
                                                                                                                                  dico.modules.events.timetable.models.entries.TimetableEntry
is_manager()(indico.modules.events.papers.models.call_for_paperstlad)FatFapers
                  method), 193
                                                                                                               is_participation
is_manager_only
                                                                                                    (in-
                                                                                                                                  dico.modules.events.registration.models.forms.RegistrationForm
                  dico.modules.events.registration.models.form_fields.RegistrationHitten,Field
                  attribute), 217
                                                                                                               is_pending(indico.modules.rb.models.reservations.Reservation
is_manager_only
                                                                                                    (in-
                                                                                                                                  attribute), 298
                  dico.modules.events.registration.models.form_fieldssRegistration.FoimtheosomoallibestatsiedsImodels.users.User
                  attribute), 218
                                                                                                                                  attribute), 273
is_manager_only
                                                                                                    (in- is_plugin_link
                  dico.modules.events.registration.models.items.RegistrationFdivoltendules.events.layout.models.menu.MenuEntryMixin
                  attribute), 224
                                                                                                                                  attribute), 184
is_manager_only
                                                                                                    (in-is\_poster(indico.modules.events.sessions.models.sessions.Session
                  dico.modules.events.registration.models.items.RegistrationFattriBatson24DataSection
                  attribute), 225
                                                                                                               is_previewable
                                                                                                                                                                                                                    (in-
is_manager_only
                                                                                                    (in-
                                                                                                                                  dico.modules.attachments.models.attachments.AttachmentFile
                  dico.modules.events.registration.models.items.RegistrationFattriSecteiqn283
                  attribute), 226
                                                                                                               is\_primary(indico.modules.users.models.emails.UserEmail)
is_manager_only
                                                                                                    (in-
                                                                                                                                  attribute), 276
                  dico.modules.events.registration.models.items.Registrationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretificationiscretif
                  attribute), 226
                                                                                                                                  attribute), 179
is_manual (indico.modules.events.payment.models.transactionscribusinsdictionmodules.events.contributions.models.subcontribu
                  attribute), 207
                                                                                                                                  attribute), 178
is_menu_entry_enabled() (in module
                                                                                                     in- is_public (indico.modules.events.contributions.models.fields.Contributi
                  dico.modules.events.layout.util), 186
                                                                                                                                  attribute), 173
                                                                                                    (in- is_publishable
is_modification_allowed()
                  dico.modules.events.registration.models.forms.RegistrationFdivon.modules.events.registration.models.registrations.Registration
                  method), 220
                                                                                                                                  attribute), 213
                                                                                                    (in- is_rejected(indico.modules.rb.models.reservation_occurrences.Reser
is_modification_open
                  dico.modules.events.registration.models.forms.RegistrationFattnibute), 300
                                                                                                                is_rejected(indico.modules.rb.models.reservations.Reservation
                  attribute), 220
is_open (indico.modules.events.abstracts.models.call_for_abstractsa@albForAbstracts
                                                                                                               is_relative(indico.modules.events.reminders.models.reminders.Event.
                  attribute), 148
is_open (indico.modules.events.papers.models.call_for_papers.CallHoniBaper;s235
                  attribute), 193
                                                                                                               is_repeating(indico.modules.rb.models.reservations.Reservation
is_open (indico.modules.events.registration.models.forms.Registratiatulfbute), 298
                                                                                                                                                                                              module
                  attribute), 220
                                                                                                               is_request_manager()
                                                                                                                                                                                                                     in-
is_orphan() (indico.modules.events.agreements.models.agreementsicAgreements.events.requests.util), 237
                  method), 166
                                                                                                               is_required(indico.modules.events.abstracts.models.review_questions.
is_orphaned(indico.modules.events.layout.models.menu.MenuEntattMbaire), 153
```

attribute), 174

```
is_required (indico.modules.events.contributions.models.fields&DatributidicEielddules.events.contributions.models.persons.SubCo
             attribute), 173
                                                                                                  attribute), 175
is_required (indico.modules.events.papers.models.reviews_quextiDtis(PapedRaxinovQuestevents.papers.models.call_for_papers.Call.
                                                                                                  method), 193
              attribute), 197
is_required(indico.modules.events.registration.models.fcrns.fields.Registration_FormEjeldss() (in module in-
                                                                                                  dico.modules.events.surveys.util), 252
             attribute), 217
is_required (indico.modules.events.registration.models.forms_fields.Regist(intibud_ommRdesoenedDatatriedyls.models.submissions.Surve
              attribute), 218
                                                                                                  attribute), 251
is_required (indico.modules.events.registration.models.items.RersionalDatailJpao.modules.events.contributions.models.persons.Con
              attribute), 223
                                                                                                  attribute), 175
is_required (indico.modules.events.registration.models.items.tkegistration(lindivloemmodules.events.models.persons.EventPersonLink
                                                                                                  attribute), 129
             attribute), 224
is_required(indico.modules.events.registration.models.its<u>ms</u>.RegistrationHevslooheslDseenSeeoidals.users.User
             attribute), 225
                                                                                                  attribute), 274
is_required(indico.modules.events.registration.models.items.RegistrationIphraSection
                                                                                                                                                                (in-
             attribute), 226
                                                                                                  dico.modules.designer.models.templates.DesignerTemplate
is_required (indico.modules.events.registration.models.items.Registrationef@rinText
                                                                                    is\_ticket (indico.modules.designer.models.templates.DesignerTemplates)
             attribute), 226
is_required(indico.modules.events.surveys.models.items.SurveyItemribute), 318
              attribute), 248
                                                                                    is_ticket(indico.modules.designer.placeholders.RegistrationTicketQRI
is_required(indico.modules.events.surveys.models.items.SurveyQutexibate), 322
                                                                                    is_ticket_blocked
              attribute), 249
                                                                                                                                              module
                                                                                                                                                                 in-
is_required(indico.modules.events.surveys.models.items.SurveySdiationore.signals.event), 85
             attribute), 249
                                                                                    is_ticket_blocked
                                                                                                                                                                (in-
is_required (indico.modules.events.surveys.models.items.SurveyTdixto.modules.events.registration.models.registrations.Registration
             attribute), 250
                                                                                                  attribute), 214
                                                                                    is_ticketing_handled
                                                                                                                                                module
is_reservable
                                                                           (in-
                                                                                                                                     (in
                                                                                                                                                                 in-
             dico.modules.rb.models.rooms.Room attribute),
                                                                                                  dico.core.signals.event), 85
                                                                                    is_track_group
                                                                                                                                                                (in-
                                                                                                  dico.modules.events.tracks.models.tracks.Track
is_reviewer()
                                                                           (in-
             dico.modules.events.papers.models.call_for_papers.CallFortPapienste), 259
             method), 193
                                                                                    is\_trusted (indico.core.oauth.models.applications.OAuthApplication
is_revoked()(indico.core.oauth.models.tokens.OAuthToken
                                                                                                  attribute), 307
                                                                                    is_type_reviewing_possible() (in module in-
              method), 309
is_root (indico.modules.categories.models.categories.Category)
                                                                                               dico.modules.events.papers.util), 204
                                                                                    \verb|is_untrusted| (indico.modules.events.models.persons. EventPerson
             attribute), 265
is_root (indico.modules.events.layout.models.menu.MenuEntry
                                                                                                  attribute), 128
                                                                                    is_user_admin()
                                                                                                                                                                (in-
              attribute), 183
is_scheduled(indico.modules.events.abstracts.models.call_for_abiscraptsdidelsFobr.Abastleds.tscooms.Room
                                                                                                                                                             static
              attribute), 148
                                                                                                  method), 291
is_scheduled(indico.modules.events.contributions.modials.contribution
                                                                                                                                                                (in-
                                                                                                  dico.modules.events.contributions.models.contributions.Contribu
              attribute), 170
is_scheduled(indico.modules.events.registration.models.forms.RegishadiqnForm
                                                                                    is_user_associated()
             attribute), 220
                                                                                                                                                                (in-
is\_section (indico.modules.events.registration.models.items.Regisdiationmodulus.tements.contributions.models.subcontributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributi
                                                                                                  method), 178
              attribute), 224
is_sent (indico.modules.events.reminders.models.reminders.<u>EventRemindert.ed</u>
                                                                                                                                                                (in-
                                                                                                  dico.modules.users.models.emails.UserEmail
is_separator(indico.modules.events.layout.models.menu.MenuEnttyilMixin), 276
             attribute), 184
                                                                                    is_user_editable
                                                                                                                                                                (in-
is_speaker (indico.modules.events.abstracts.models.persons.AbstradiateRemscolull.indevents.contributions.models.fields.ContributionField
                                                                                                  attribute), 173
is_speaker (indico.modules.events.contributions.models.persone <u>ContributionRevsond dualle</u>s.events.layout.models.menu.MenuEntryM
```

434 Index

attribute), 184

```
is_user_registered()
                                                                                         judge (indico.modules.events.papers.models.revisions.PaperRevision
              dico.modules.events.models.events.Event
                                                                                                        attribute), 201
              method), 124
                                                                                         judge_abstract()
                                                                                                                                       (in
                                                                                                                                                     module
is_valid(indico.modules.rb.models.reservation_occurrences.ReservationOthduesrevuexts.abstracts.operations),
              attribute), 300
is visible (indico.modules.events.layout.models.menu.Menufentry.Missinine
                                                                                                                                                                         (in-
                                                                                                        dico.modules.events.papers.models.call_for_papers.CallForPape
              attribute), 184
is_visible (indico.modules.events.registration.models.items.Registattnibutle);nHTem
              attribute), 224
                                                                                         judge_id(indico.modules.events.abstracts.models.abstracts.Abstract
is_visible (indico.modules.events.surveys.models.surveys.Survey attribute), 145
              attribute), 246
                                                                                         judge_id(indico.modules.events.papers.models.revisions.PaperRevision
is_visible_in()
                                                                                (in-
                                                                                                        attribute), 201
              dico.modules.events.models.events.Event
                                                                                                                                                   module
                                                                                                                                                                          in-
                                                                                         judge_paper()
                                                                                                                                  (in
              class method), 125
                                                                                                        dico.modules.events.papers.operations),
                                                                                (in-
is_within_cancel_grace_period
              dico.modules.rb.models.reservation_occurrences.Reservationdicournentedes.events.abstracts.models.reviews.AbstractCommen
              attribute), 300
                                                                                                        attribute), 155
items (in module indico.core.signals.menu), 88
                                                                                         judges (indico.modules.events.papers.models.call_for_papers.CallForPapers.
items (indico.modules.designer.pdf.TplData attribute),
                                                                                                        attribute), 193
                                                                                         judges (indico.modules.events.papers.models.reviews.PaperCommentVisi
items (indico.modules.events.surveys.models.surveys.Survey
                                                                                                        attribute), 199
              attribute), 246
                                                                                         judgment_comment
iter_all_multipass_groups()
                                                                                                        dico.modules.events.abstracts.models.abstracts.Abstract
                                                                                (in-
              dico.modules.users.models.users.User
                                                                                                        attribute), 145
              method), 274
                                                                                         judgment_comment
                                                                                                                                                                         (in-
iter_choices()
                                                                                (in-
                                                                                                        dico.modules.events.papers.models.papers.Paper
              dico.web. forms. fields. IndicoEnum Select Field
                                                                                                        attribute), 196
              method), 341
                                                                                         judgment_comment
                                                                                                                                                                         (in-
                                                                                                        dico.modules.events.papers.models.revisions.PaperRevision
iter_choices()
                                                                                (in-
              dico.web.forms.fields.IndicoSelectMultipleCheckboxBooleandfiellolute), 201
              method), 346
                                                                                         judgment_dt (indico.modules.events.abstracts.models.abstracts.Abstrac
iter_create_occurrences()
                                                                                (in-
                                                                                                        attribute), 146
              dico.modules.rb.models.reservation_occurrences.ReservationtOctu(indiao.modules.events.papers.models.revisions.PaperRevi
              class method), 300
                                                                                                        attribute), 201
iter_days()(indico.modules.events.models.events.Eventjudgment_instructions
              method), 125
                                                                                                        dico.modules.events.abstracts.models.call\_for\_abstracts.CallFortable for\_abstracts.CallFortable for\_
iter_identifiers()
                                                                                (in-
                                                                                                        attribute), 148
              dico. modules. users. models. users. User\\
                                                                                         JudgmentCommentPlaceholder (class in in-
              method), 274
                                                                                                        dico.modules.events.abstracts.placeholders),
iter_param_info()
                                                                                                        164
                                                                                (in-
              dico. modules. events. persons. placeholders. Contributions Placeholder\\
              class method), 210
iter_param_info()
                                                                                (in- key (indico.modules.search.result_schemas.BucketSchema
              dico.modules.events.registration.placeholders.registrations.Firefill@qeh@lder
              class method), 230
                                                                                         key_location(indico.modules.rb.models.rooms.Room
iter_start_time()
                                                                                (in-
                                                                                                        attribute), 291
              dico.modules.rb.models.reservation_occurrences.ReservationsQuadivaenaedules.events.contributions.models.contributions.Con
              static method), 300
                                                                                                        attribute), 170
                                                                                         keywords (indico.modules.events.models.events.Event
J
                                                                                                        attribute), 125
JSONField (class in indico.web.forms.fields), 334
                                                                                         kind (indico.modules.events.logs.models.entries.EventLogEntry
                                                                                                       attribute), 187
judge (indico.modules.events.abstracts.models.abstracts.Abstract
              attribute), 145
```

L		dico.modules.events.persons.placeholders),
label (indico.modules.events.models.events.Event at-		211
tribute), 125		mePlaceholder (class in in-
label (indico.modules.search.result_schemas.AggregationScattribute), 68	circiite	dico.modules.events.registration.placeholders.invitations), 232
label_id (indico.modules.events.models.events.Event L		nePlaceholder (class in in-
attribute), 125		dico.modules.events.registration.placeholders.registrations),
label_message (in-		230
attribute), 125		_date (indico.web.forms.fields.IndicoDateField attribute), 345
attribute) 271		_dt (indico.web.forms.fields.IndicoDateTimeField attribute), 340
last_f_upper(indico.modules.users.models.users.NameF	Pormaiuc	de (indico.modules.rb.models.rooms.Room at-
attribute) 271		tribute), 291
attribute), 271		(indico.modules.events.papers.models.reviews.PaperReviewType attribute), 200
last_first_upper (in- last_first_upper)	_	_review_questions (in-
dico.modules.users.models.users.NameFormat attribute), 271		dico.modules.events.papers.models.call_for_papers.CallForPape attribute), 193
last_login_dt (in- last_login_dt)		_reviewer_deadline (in-
dico.modules.auth.models.identities.Identity attribute), 302		dico.modules.events.papers.models.call_for_papers.CallForPape attribute), 193
last_login_dt (in- le	.ayout_	_reviewer_deadline_enforced (in-
dico.modules.users.models.users.User at- tribute), 274		dico.modules.events.papers.models.call_for_papers.CallForPape attribute), 193
last_login_ip (in- le	.ayout_	_reviewers (in-
dico.modules.auth.models.identities.Identity attribute), 302		dico.modules.events.papers.models.call_for_papers.CallForPape attribute), 193
last_name (indico.modules.events.models.persons.EventPe	e <b>rson</b> ut_	_reviewing_enabled (in-
attribute), 128		aico.moaiies.evenis.papers.moaeis.caii_jor_papers.CaiiForPape
last_name(indico.modules.events.models.persons.PersonL	LinkBase	attribute), 193
attribute), 130	.ecture	e (maico.moanies.evenis.moaeis.evenis.Eveni1ype
<i>utti tettic)</i> ; 222	.egacy_	$_\mathtt{id}$ (indico.modules.events.contributions.models.fields.Contributi
last_name (indico.modules.events.registration.models.item attribute), 223	<i>is.Person</i> .egacy_	attribute)pe ⁷³ _name (indico.modules.events.models.events.EventType
last_name (indico.modules.events.registration.models.regis	strations	estributari da 7
attribute), 214	.imit_1	reached (in-
${\tt last_name}  (indico.modules.users.models.users.User$		dico.modules.events.registration.models.forms.RegistrationForm
attribute), 274		attribute), 220
		ceached (in- dico.modules.events.surveys.models.surveys.Survey
dico.modules.events.papers.models.papers.Paper attribute), 196		attribute), 246
last_used_dt (indico.core.oauth.models.tokens.OAuthTdk	kenit_1	ceached (in-
attribute), 309		aico.moaiies.evenis.surveys.moaeis.surveys.surveysiaie
<i>unitome</i> ), 510	ink ( <i>ind</i>	dico.modules.attachments.models.attachments.AttachmentType
last_used_dt (indico.modules.events.models.static_list_lattribute), 137	.ink( <i>ind</i>	dico.modules.rb.models.reservations.Reservation
last_used_ip(indico.core.oauth.models.tokens.OAuthTok	iccii	attribute), 298
attribute), 309	.ink_ba	ackref_lazy (in-
last_used_ip(indico.core.oauth.models.tokens.TokenMod attribute), 310	odelBase	dico.modules.attachments.models.folders.AttachmentFolder attribute), 285
LastNamePlaceholder (class in in-1	ink_ba	ackref_name (in-

```
dico.modules.attachments.models.folders.AttachmentFolderattribute), 299
                  attribute), 285
                                                                                                                   linked_event_id
                                                                                                                                                                                                                          (in-
link_backref_name
                                                                                                       (in-
                                                                                                                                      dico.modules.vc.models.vc_rooms.VCRoomEventAssociation
                   dico. modules. events. notes. models. notes. Event Note\\
                                                                                                                                      attribute), 313
                   attribute), 191
                                                                                                                   \verb|linked_field| (indico.web.forms.fields.IndicoDateField|) \\
link backref name
                                                                                                                                     attribute), 345
                                                                                                       (in-
                  dico.modules.rb.models.reservations.Reservation \c{Dirik} \c ked\_field (indico.web.forms.fields.IndicoDateTimeField)
                                                                                                                                      attribute), 340
(in-
                   attribute), 298
                                                                                                                                      dico.modules.rb.models.reservations.Reservation
link_object(indico.modules.vc.models.vc_rooms.VCRoomEventAssoidiateon298
                                                                                                                   linked_object_attr
                   attribute), 313
\verb|link_type| (indico.modules.attachments.models.folders.Attachment \textit{Hidden} odules.events.abstracts.fields.AbstractPersonLinkListFields.abstracts.fields.AbstractPersonLinkListFields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.abstracts.fields.a
                                                                                                                                      attribute), 329
                  attribute), 285
link_type (indico.modules.events.notes.models.notes.EventNoted_object_attr
                                                                                                                                                                                                                          (in-
                   attribute), 191
                                                                                                                                      dico.modules.events.contributions.fields.ContributionPersonLinkl
link_type (indico.modules.rb.models.reservations.ReservationLinkattribute), 331
                   attribute), 299
                                                                                                                   linked object attr
link_type (indico.modules.vc.models.vc_rooms.VCRoomEventAssadiian)dules.events.contributions.fields.SubContributionPersonL
                   attribute), 313
                                                                                                                                      attribute), 331
link_url(indico.modules.attachments.models.attachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachmentsiAttachments
                                                                                                                                                                                                                          (in-
                  attribute), 282
                                                                                                                                      dico.modules.events.fields.EventPersonLinkListField
link_url(indico.modules.events.layout.models.menu.MenuEntry attribute), 327
                                                                                                                  linked_object_attr
                   attribute), 183
link_user_by_email()
                                                                                                       (in-
                                                                                                                                      dico.modules.events.fields.PersonLinkListFieldBase
                  dico.modules.events.models.persons.EventPerson
                                                                                                                                      attribute), 328
                   class method), 128
                                                                                                                   linked_object_attr
                                                                                                                                                                                                                          (in-
linked_block (indico.modules.vc.models.vc_rooms.VCRoomEventAssaniadidas.events.sessions.fields.SessionBlockPersonLinkListFi
                  attribute), 313
                                                                                                                                     attribute), 333
linked_contrib
                                                                                                       (in- LinkPlaceholder
                                                                                                                                                                             (class
                                                                                                                                                                                                                           in-
                                                                                                                                                                                                        in
                  dico.modules.vc.models.vc_rooms.VCRoomEventAssociationico.modules.events.registration.placeholders.registrations),
                  attribute), 313
                                                                                                                                      231
linked_date_validator
                                                                                                       (in-
                                                                                                                  list_link_type
                   dico.web.forms.fields.IndicoDateField
                                                                                                                                      dico.modules.events.util.ListGeneratorBase
                                                                                                        at-
                   tribute), 345
                                                                                                                                      attribute), 139
linked_datetime_validator
                                                                                                                  ListGeneratorBase
                                                                                                                                                                                 (class
                                                                                                       (in-
                                                                                                                                                                                                          in
                                                                                                                                                                                                                           in-
                   dico.web.forms.fields.IndicoDateTimeField
                                                                                                                                      dico.modules.events.util), 139
                   attribute), 340
                                                                                                                   load() (indico.modules.events.models.static_list_links.StaticListLink
linked_event (indico.modules.attachments.models.folders.AttachmansFolethod), 137
                                                                                                                  load() (indico.modules.users.ext.ExtraUserPreferences
                   attribute), 285
linked event (indico.modules.events.notes.models.notes.EventNoteethod), 281
                   attribute), 191
                                                                                                                   load_identity_info()
                                                                                                                                                                                                    module
                                                                                                                                                                                                                           in-
linked_event (indico.modules.rb.models.reservations.Reservationdiinkmodules.auth.util), 303
                                                                                                                   local_group (indico.modules.attachments.models.principals.Attachmen
                  attribute), 299
linked_event(indico.modules.vc.models.vc_rooms.VCRoomEventAssibaia)io286
                   attribute), 313
                                                                                                                   local_group (indico.modules.attachments.models.principals.Attachmen
linked_event_id
                                                                                                       (in-
                                                                                                                                     attribute), 287
                  dico.modules.attachments.models.folders.AttachmentEolidersroup (indico.modules.categories.models.principals.CategoryPri
                  attribute), 285
                                                                                                                                      attribute), 267
linked_event_id
                                                                                                       (in- local_group (indico.modules.events.contributions.models.principals.Co
                  dico. modules. events. notes. models. notes. Event Note\\
                                                                                                                                      attribute), 176
                                                                                                                   local group (indico.modules.events.models.principals.EventPrincipal
                  attribute), 191
linked_event_id
                                                                                                       (in-
                                                                                                                                      attribute), 131
```

dico.modules.rb.models.reservations.ReservationLinkcal_group (indico.modules.events.models.settings.EventSettingPrinci

attribute), 136		attribute), 72
local_group (indico.modules.events.sessions.mod	dels.pr	rincipals.SessianPicinaiwalules.search.result_schemas.EventResultSchema
attribute), 244		attribute), 71
<pre>local_group (indico.modules.events.tracks.mode</pre>	ls.prin	cipodsaTriuckP_rionoipadef_name (in-
attribute), 261		dico.modules.events.contributions.models.contributions.Contril
<pre>local_group (indico.modules.rb.models.blocking</pre>	_princ	eipals.BlockaintgPonitre)iptil0
attribute), 295		location_backref_name (in-
local_group_id	(in-	dico.modules.events.models.events.Event
${\it dico. modules. attachments. models. principal}$	ls.Atta	**
attribute), 286		location_backref_name (in-
local_group_id	(in-	dico. modules. events. sessions. models. blocks. Session Block
dico.modules.attachments.models.principa	ls.Atta	
attribute), 287		location_backref_name (in-
local_group_id	(in-	dico. modules. events. sessions. models. sessions. Session
dico.modules.categories.models.principals	.Categ	
attribute), 267		location_backref_name (in-
local_group_id	(in-	dico. modules. events. time table. models. breaks. Break
dico.modules.events.contributions.models.j	princiį	
attribute), 176		location_changed (in module in-
local_group_id	(in-	dico.core.signals.event), 85
	entPrin	ncipadation_id (indico.modules.rb.models.rooms.Room
attribute), 131		attribute), 291
local_group_id		location_name (in-
	Setting	Principal dico.modules.rb.models.reservations.Reservation attribute), 298
attribute), 136	(in	location_name (in-
local_group_id		SessionPrind <b>ipa</b> lmodules.rb.models.rooms.Room attribute),
attribute), 244	ipais.s	291
local_group_id	(in	location_parent (in-
		ackPrincipadico.modules.events.contributions.models.contributions.Contrib
attribute), 261	ais.17u	attribute), 171
local_group_id	(in-	location_parent (in-
		ckingPrincipido.modules.events.contributions.models.subcontributions.Sub
attribute), 295	is.Dio	attribute), 178
LOCAL_GROUPS (built-in variable), 47		location_parent (in-
LOCAL_IDENTITIES (built-in variable), 47		dico.modules.events.sessions.models.blocks.SessionBlock
local_identities	(in-	attribute), 242
dico.modules.users.models.users.User	`	location_parent (in-
tribute), 274		dico.modules.events.sessions.models.sessions.Session
local_identity	(in-	attribute), 240
dico.modules.users.models.users.User	at-	location_parent (in-
tribute), 274		dico.modules.events.timetable.models.breaks.Break
LOCAL_MODERATION (built-in variable), 48		attribute), 253
LOCAL_REGISTRATION (built-in variable), 48		LocationResultSchema (class in in-
LocalGroup (class in	in-	dico.modules.search.result_schemas), 73
dico.modules.groups.models.groups), 310		locator (indico.core.oauth.models.applications.OAuthApplication
localized_title	(in-	attribute), 307
	1enuEi	ntryMixinor (indico.core.oauth.models.tokens.TokenModelBase
attribute), 184		attribute), 310
Location (class in	in-	locator (indico.modules.attachments.models.attachments.Attachment
dico.modules.rb.models.locations), 295		attribute), 282
	ı at-	locator (indico.modules.attachments.models.folders.AttachmentFolder
tribute), 291		attribute), 285
	Contri	bution ResultSnHemomodules.auth.models.identities.Identity

attribute), 302 attribute), 195 locator (indico.modules.auth.models.registration_requests:Registrat(innRequest\u00fcules.events.papers.models.papers.Paper attribute), 196 attribute), 303 locator (indico.modules.categories.models.categories.Categories) (indico.modules.events.papers.models.review_questions.PaperRe attribute), 265 attribute), 197 locator (indico.modules.designer.models.images.Designer.houge Eite (indico.modules.events.papers.models.reviews.PaperReview attribute), 199 attribute), 317 locator (indico.modules.designer.models.templates.Designer.Famplatendico.modules.events.papers.models.reviews.PaperTypeProxy attribute), 318 attribute), 200 locator (indico.modules.events.abstracts.models.abstracts.Abstract (indico.modules.events.papers.models.revisions.PaperRevision attribute), 146 attribute), 201 locator (indico.modules.events.abstracts.models.comments.Abstract(Continuentodules.events.papers.models.templates.PaperTemplate attribute), 149 attribute), 202 locator (indico.modules.events.abstracts.models.email_terophates.AkstudictEmodlillers.plætets.registration.models.form_fields.Registrat attribute), 151 attribute), 217 locator (indico.modules.events.abstracts.models.files.AbstractFiler (indico.modules.events.registration.models.forms.RegistrationFo attribute), 152 attribute), 220 locator (indico.modules.events.abstracts.models.persons.Abstract@RevisadiEinakodules.events.registration.models.invitations.Registrati attribute), 153 attribute), 222 locator (indico.modules.events.abstracts.models.review_questions:AlbathactRevilesleQueextinos.registration.models.items.RegistrationFor attribute), 153 attribute), 226 locator (indico.modules.events.abstracts.models.reviews.AbstractoRe(inedico.modules.events.registration.models.items.RegistrationFor attribute), 155 attribute), 226 locator (indico.modules.events.agreements.models.agreements.Agreements.modules.events.registration.models.registrations.Registra attribute), 166 attribute), 214 locator (indico.modules.events.contributions.models.confributions: Qindiribution dules.events.registration.models.registrations.Registration attribute), 171 attribute), 216 locator (indico.modules.events.contributions.models.fields.ContributindFioldnodules.events.reminders.models.reminders.EventRemin attribute), 173 attribute), 235 locator (indico.modules.events.contributions.models.persdox.ContributionPandalishkvents.requests.models.requests.Request attribute), 175 attribute), 237 locator (indico.modules.events.contributions.models.subcontribution/sindiubContribution/sindiubContributions.models.blocks.SessionBlock attribute), 178 attribute), 242 locator (indico.modules.events.contributions.models.types.Contributionallypanodules.events.sessions.models.sessions.Session attribute), 179 attribute), 240 locator (indico.modules.events.layout.models.images.ImageEideor (indico.modules.events.static.models.static.StaticSite attribute), 182 attribute), 262 locator (indico.modules.events.layout.models.menu.EveniRagetor (indico.modules.events.surveys.models.items.SurveyQuestion attribute), 249 attribute), 183 locator (indico.modules.events.layout.models.menu.MenuEntryMixifindico.modules.events.surveys.models.items.SurveySection attribute), 184 attribute), 249 (indico.modules.events.models.events.Event locator (indico.modules.events.surveys.models.items.SurveyText locator attribute), 125 attribute), 250 attribute), 128 attribute), 251 locator (indico.modules.events.models.references.Reference Expeor (indico.modules.events.surveys.models.surveys.Survey

 $\texttt{locator} \ (\textit{indico.modules.events.papers.models.files.Paper} \textbf{File} \\ \texttt{ator} \ (\textit{indico.modules.networks.models.networks.IPNetworkGroups)} \\ \texttt{ator} \ (\textit{indico.modules.networks.models.networks.IPNetworkGroups)} \\ \texttt{ator} \ (\textit{indico.modules.networks.models.networks.IPNetworkGroups)} \\ \texttt{ator} \ (\textit{indico.modules.networks.models.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.networks.netwo$ 

 ${\tt locator} \ (indico. modules. events. notes. models. notes. Event {\tt Note} {\tt ator} \ (indico. modules. events. time table. models. entries. Time table {\tt Entry})$ 

locator (indico.modules.events.models.reviews.ProposalGroupProx (indico.modules.events.timetable.models.breaks.Break

locator (indico.modules.events.papers.models.comments.PapæReviéirdiammendules.events.tracks.models.tracks.Track

attribute), 246

attribute), 253

attribute), 255

attribute), 260

Index 439

attribute), 132

attribute), 133

attribute), 191

attribute), 194

attribute), 326	M
locator (indico.modules.news.models.news.NewsItem attribute), 326	magnitudes (indico.web.forms.fields.RelativeDeltaField attribute), 346
locator (indico.modules.users.models.users.User attribute), 274	magnitudes (indico.web.forms.fields.TimeDeltaField attribute), 340
<pre>locator (indico.modules.vc.models.vc_rooms.VCRoom</pre>	make_abstract_form() (in module in-
<pre>locator (indico.modules.vc.models.vc_rooms.VCRoomE</pre>	EventAssociation dico.modules.events.contributions.util), 180
<pre>lock_event() (in module in- dico.modules.events.operations), 138</pre>	make_diff_log() (in module in-
log () (indico.modules.events.abstracts.models.abstracts.method), 146 log () (indico.modules.events.contributions.models.contri	Abstract make_email_primary() (in- dico modules users models users User
method), 171 log() (indico.modules.events.models.events.Event	<pre>make_registration_form() (in module in- dico.modules.events.registration.util), 229</pre>
method), 125 log() (indico.modules.events.registration.models.registra	make_reminder_email() (in module in- utions.Registrationodules.events.reminders.util), 236
method), 214 LOG_DIR (built-in variable), 53	<pre>make_setup_state()</pre>
log_entries (indico.modules.events.models.events.Eve attribute), 125	mt method), 79
logged_date (indico.modules.events.logs.models.entrie attribute), 187 logged_dt (indico.modules.events.logs.models.entries.E	ss.EventLogfints/modules.events.surveys.util), 252
attribute), 187 logged_in (in module indico.core.signals.users), 90 LOGGING_CONFIG_FILE (built-in variable), 54	management_url (in module in- dico.core.signals.event_management), 87
logging_disabled (in-	manager_form (indico.modules.events.requests.base.RequestDefinitionBattribute), 238
dico.modules.events.models.events.Event attribute), 125	<pre>manager_notification_recipients (in- dico.modules.events.registration.models.forms.RegistrationForm</pre>
logo (indico.modules.categories.models.categories.Categories), 265	ory attribute), 220 manager_notifications_enabled (in-
logo (indico.modules.events.models.events.Event attribute), 125	dico.modules.events.registration.models.forms.RegistrationForm attribute), 220
logo_metadata (indico.modules.categories.models.categories.Categories.Categories.categories.Categories.categories.Categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categories.categor	manager_save() (in-
logo_metadata (in- dico.modules.events.models.events.Event	managers (indico.modules.events.papers.models.call_for_papers.CallForattribute), 193
attribute), 125 LOGO_URL (built-in variable), 51 logo_url (indico.modules.categories.models.categories.	managers_and_submitters (in- dico.modules.events.contributions.models.fields.ContributionFiel Category attribute), 174
attribute), 265 logo_url (indico.modules.events.models.events.Event attribute), 125	managers_only (in- dico.modules.events.contributions.models.fields.ContributionFiel attribute), 174
	ent <u>PluginM</u> ixin(indico.modules.events.models.events.Event attribute), 126
logo_url (indico.modules.vc.plugins.VCPluginMixin attribute), 315	map_url (indico.modules.rb.models.rooms.Room at- tribute), 291
longitude (indico.modules.rb.models.rooms.Room attribute), 291	map_url_template (in- dico.modules.rb.models.locations.Location attribute), 296
	MapArea (class in in-

```
dico.modules.rb.models.map_areas), 296
                                                        MenuEntryType
                                                                                   (class
                                                                                                           in-
mapping (indico.modules.rb.models.reservations.RepeatMapping
                                                                 dico.modules.events.layout.models.menu),
         attribute), 297
                                                                 184
                                                  (in-merge\ (indico.modules.events.abstracts.models.reviews.AbstractAction
mark_as_duplicate
         dico.modules.events.abstracts.models.reviews.AbstractActioattribute), 154
         attribute), 154
                                                        merge person info()
                                                                                                          (in-
MarkdownPreviewer
                                                                 dico.modules.events.models.persons.EventPerson
                              (class
                                          in
                                                   in-
         dico.modules.attachments.preview), 288
                                                                 method), 129
marshmallow_aliases
                                                  (in- merge_users()
                                                                                  (in
                                                                                            module
                                                                                                           in-
         dico. modules. events. abstracts. models. abstracts. Abstract\\
                                                                 dico.modules.users.util), 279
         attribute), 146
                                                        merge_users()
                                                                                                          (in-
marshmallow_aliases
                                                                 dico.modules.events.models.persons.EventPerson
                                                  (in-
         dico.modules.events.abstracts.models.comments.AbstractConlasennethod), 129
         attribute), 149
                                                        merge_users()
                                                                                                          (in-
marshmallow_aliases
                                                  (in-
                                                                 dico.modules.events.papers.models.competences.PaperCompeten
         dico.modules.events.abstracts.models.reviews.AbstractReviewlass method), 195
         attribute), 156
                                                        merge_users()
                                                                                                          (in-
max_advance_days
                                                  (in-
                                                                 dico.modules.events.registration.models.registrations.Registration
         dico.modules.rb.models.rooms.Room attribute),
                                                                 class method), 214
                                                        merge users()
MAX_UPLOAD_FILE_SIZE (built-in variable), 56
                                                                 dico.modules.events.settings.EventACLProxy
MAX_UPLOAD_FILES_TOTAL_SIZE (built-in vari-
                                                                 method), 142, 205
         able), 56
                                                        merge users()
                                                                                                          (in-
md5 (indico.modules.attachments.models.attachments.AttachmentFiledico.modules.users.models.suggestions.SuggestedCategory
         attribute), 283
                                                                 class method), 277
md5 (indico.modules.designer.models.images.DesignerImageEile;ed (in module indico.core.signals.users), 90
         attribute), 317
                                                        merged (indico.modules.events.abstracts.models.abstracts.AbstractPublic
\verb|md5| (indico.modules.events.abstracts.models.files.AbstractFile|) \\
                                                                 attribute), 147
         attribute), 152
                                                        merged (indico.modules.events.abstracts.models.abstracts.AbstractState
md5 (indico.modules.events.layout.models.images.ImageFile
                                                                 attribute), 147
         attribute), 182
                                                        merged_into(indico.modules.events.abstracts.models.abstracts.Abstrac
md5 (indico.modules.events.papers.models.files.PaperFile
                                                                 attribute), 146
         attribute), 196
                                                        merged_into_id
md5 (indico.modules.events.papers.models.templates.PaperTemplate dico.modules.events.abstracts.models.abstracts.Abstract
         attribute), 203
                                                                 attribute), 146
                                                                                                          (in-
md5 (indico.modules.events.registration.models.registrationsnRegistdationsDatai.d
         attribute), 216
                                                                 dico.modules.users.models.users.User
                                                                                                           at-
md5 (indico.modules.events.static.models.static.StaticSite
                                                                 tribute), 274
         attribute), 262
                                                        merged_into_user
                                                                                                          (in-
meeting(indico.modules.events.models.events.EventType
                                                                 dico.modules.users.models.users.User
                                                                                                           at-
                                                                 tribute), 274
         attribute), 127
members (indico.modules.groups.models.groups.LocalGroupessage (indico.modules.events.reminders.models.reminders.EventRemin
         attribute), 310
                                                                 attribute), 235
MEMCACHED_SERVERS (built-in variable), 49
                                                        message_complete
                                                                                                          (in-
menu_entries_for_event()
                                                                 dico. modules. events. registration. models. forms. Registration Form\\
                                   (in module
                                                   in-
                                                                 attribute), 220
         dico.modules.events.layout.util), 186
MenuEntry
                       (class
                                                        message_pending
                                                                                                          (in-
                                                   in-
                                                                 dico.modules.events.registration.models.forms.RegistrationForm
         dico.modules.events.layout.models.menu),
         183
                                                                 attribute), 220
MenuEntryData
                          (class
                                                        message_unpaid
                                        in
                                                   in-
         dico.modules.events.layout.util), 185
                                                                 dico.modules.events.registration.models.forms.RegistrationForm
                                                                 attribute), 220
MenuEntryMixin
                           (class
                                                   in-
         dico.modules.events.layout.models.menu),
                                                        meta (indico.modules.events.logs.models.entries.EventLogEntry
         184
                                                                 attribute), 187
```

```
metadata_postprocess
                                                                                                    (in
                                                                                                                         module
                                                                                                                                                            in- modified_dt (indico.modules.search.result_schemas.AttachmentResultS
                            dico.core.signals.event), 85
                                                                                                                                                                                                        attribute), 72
\verb|mgmt_field| (indico.modules.events.contributions.models: | field | indico.modules.events.contributions.models: | field | indico.modules.events.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.con
                                                                                                                                                                                                        attribute), 73
mixed (indico.modules.events.abstracts.models.abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.
                            attribute), 147
                                                                                                                                                                                                        attribute), 312
moderation enabled
                                                                                                                                                          (in- modify() (indico.modules.rb.models.reservations.Reservation
                            dico.modules.events.registration.models.forms.RegistrationFnethod), 298
                            attribute), 220
                                                                                                                                                                           modify_registration()
                                                                                                                                                                                                                                                                                  (in
                                                                                                                                                                                                                                                                                                      module
                                                                                                                                                                                                                                                                                                                                        in-
modification_end_dt
                                                                                                                                                                                                        dico.modules.events.registration.util), 229
                                                                                                                                                          (in-
                            dico.modules.events.abstracts.models.call_for_abstracts!@dilfdixAbstradus.categories.models.settings.CategorySetting
                            attribute), 148
                                                                                                                                                                                                        attribute), 268
                                                                                                                                                          (in- module (indico.modules.events.logs.models.entries.EventLogEntry
modification_end_dt
                            dico.modules.events.registration.models.forms.RegistrationFatribute), 187
                            attribute), 220
                                                                                                                                                                           module (indico.modules.events.models.settings.EventSetting
modification_ended
                                                                                                                                                          (in-
                                                                                                                                                                                                        attribute), 135
                            dico.modules.events.abstracts.models.abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts.Abstracts
                            attribute), 146
                                                                                                                                                                                                       attribute), 136
modification ended
                                                                                                                                                          (in- module (indico.modules.users.models.settings.UserSetting
                            dico.modules.events.abstracts.models.call_for_abstracts.CallffoibAlbs)racts
                            attribute), 148
                                                                                                                                                                           MONTH (indico.modules.rb.models.reservations.RepeatFrequency
modification mode
                                                                                                                                                          (in-
                                                                                                                                                                                                        attribute), 296
                            dico.modules.events.registration.models.forms.Registration.Findiaco.modules.categories.models.categories.Category
                                                                                                                                                                                                       method), 266
                            attribute), 220
ModificationMode
                                                                                                                                                                          move () (indico.modules.events.layout.models.menu.MenuEntry
                                                                                           (class
                                                                                                                                in
                                                                                                                                                            in-
                            dico.modules.events.registration.models.forms),
                                                                                                                                                                                                        method), 183
                                                                                                                                                                                                                   (indico.modules.events.models.events.Event
                                                                                                                                                                           move()
modified_by (indico.modules.events.abstracts.models.abstracts.Abstrata), 126
                            attribute), 146
                                                                                                                                                                           move () (indico.modules.events.timetable.models.entries.TimetableEntry
modified_by (indico.modules.events.abstracts.models.comments.AbstractS.Distinct
                             attribute), 149
                                                                                                                                                                           move_category()
                                                                                                                                                                                                                                                                                             module
                                                                                                                                                                                                                                                                                                                                        in-
modified_by (indico.modules.events.papers.models.comments.Papdirevierdalemoungories.operations), 268
                            attribute), 194
                                                                                                                                                                           move_next_to()
                                                                                                                                                                                                                                                                                                                                     (in-
modified_by_id
                                                                                                                                                                                                        dico.modules.events.timetable.models.entries.TimetableEntry
                                                                                                                                                          (in-
                            dico.modules.events.abstracts.models.abstracts.Abstract
                                                                                                                                                                                                       method), 255
                                                                                                                                                                           move start dt()
                                                                                                                                                                                                                                                                                                                                     (in-
                            attribute), 146
modified by id
                                                                                                                                                          (in-
                                                                                                                                                                                                        dico.modules.events.models.events.Event
                            dico.modules.events.abstracts.models.comments.AbstractComentent(), 126
                            attribute), 149
                                                                                                                                                                           move_timetable_entry()
                                                                                                                                                                                                                                                                                     (in
                                                                                                                                                                                                                                                                                                       module
modified_by_id
                                                                                                                                                                                                        dico.modules.events.timetable.operations),
                                                                                                                                                          (in-
                            dico.modules.events.papers.models.comments.PaperReviewC5mment
                                                                                                                                                                           moved (in module indico.core.signals.category), 82
                            attribute), 194
modified dt (indico.modules.attachments.models.attachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachmentsch(trachment
                                                                                                                                                                                             (indico.modules.users.models.users.UserTitle\\
                            attribute), 282
                                                                                                                                                                           mr
modified_dt (indico.modules.events.abstracts.models.abstracts.Altsibate), 276
                                                                                                                                                                                                              (indico.modules.users.models.users.UserTitle
                             attribute), 146
                                                                                                                                                                           mrs
modified_dt (indico.modules.events.abstracts.models.comments.Abstridoct@pn???//ent
                                                                                                                                                                                            (indico.modules.users.models.users.UserTitle
                            attribute), 149
                                                                                                                                                                                                                                                                                                                                        at-
modified_dt (indico.modules.events.abstracts.models.reviews.AbstraleuRe);i2W6
                            attribute), 156
                                                                                                                                                                           MultiIPNetworkField
                                                                                                                                                                                                                                                                              (class
                                                                                                                                                                                                                                                                                                                                        in-
modified_dt (indico.modules.events.papers.models.comments.PapdinRevierdales.metworks.fields), 333
                            attribute), 194
                                                                                                                                                                           multipass_data
                                                                                                                                                                                                                                                                                                                                     (in-
modified_dt (indico.modules.events.papers.models.reviews.PaperRievenmodules.auth.models.identities.Identity
                            attribute), 200
                                                                                                                                                                                                       attribute), 302
```

```
(in- MultipleItemsField
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (class
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       in-
multipass_group_name
                                                          dico.modules.attachments.models.principals.AttachmentFolalierBrinebi.foutms.fields), 342
                                                          attribute), 286
                                                                                                                                                                                                                                                                                                                                                                   MultiStringField
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       in-
multipass_group_name
                                                                                                                                                                                                                                                                                                                               (in-
                                                                                                                                                                                                                                                                                                                                                                                                                                dico.web.forms.fields), 342
                                                          dico.modules.attachments.models.principals.Attachment (Pindicipal) odules.users.models.users.User Title
                                                          attribute), 287
                                                                                                                                                                                                                                                                                                                                                                                                                              tribute), 276
multipass group name
                                                                                                                                                                                                                                                                                                                               (in-
                                                          dico. modules. categories. models. principals. Category Principal
                                                           attribute), 267
                                                                                                                                                                                                                                                                                                                                                                   name (indico.core.oauth.models.applications.OAuthApplication
multipass_group_name
                                                                                                                                                                                                                                                                                                                               (in-
                                                                                                                                                                                                                                                                                                                                                                                                                                attribute), 307
                                                           dico. modules. events. contributions. models. principals. General metric in Betite i
                                                           attribute), 176
                                                                                                                                                                                                                                                                                                                                                                                                                               attribute), 268
multipass_group_name
                                                                                                                                                                                                                                                                                                                               (in-name\ (indico.modules.designer.placeholders.CategoryTitlePlaceholder))
                                                          dico.modules.events.models.principals.EventPrincipal
                                                                                                                                                                                                                                                                                                                                                                                                                               attribute), 324
                                                          attribute), 131
                                                                                                                                                                                                                                                                                                                                                                   \verb|name| (indico.modules.designer.placeholders.EventDatesPlaceholder)|
multipass_group_name
                                                                                                                                                                                                                                                                                                                                (in-
                                                                                                                                                                                                                                                                                                                                                                                                                                attribute), 319
                                                          dico. modules. events. models. setting \textit{Sprincip} \textit{Qhdico.} modules. designer. placeholders. \textit{EventDescriptionPlaceholders} and \textit{Quantitative} \textit{Qhdico.} modules. designer. placeholders. \textit{Qhdico.} modules. designer. placeholders. \textit{Qhdico.} modules. designer. placeholders. designer. pla
                                                          attribute), 136
                                                                                                                                                                                                                                                                                                                                                                                                                               attribute), 319
multipass_group_name
                                                                                                                                                                                                                                                                                                                               (in- name (indico.modules.designer.placeholders.EventLogoPlaceholder
                                                           dico.modules.events.sessions.models.principals.SessionPrincipalbute), 325
                                                          attribute), 244
                                                                                                                                                                                                                                                                                                                                                                   name\ (indico.modules.designer.placeholders.EventOrgTextPlaceholder)
                                                                                                                                                                                                                                                                                                                               (in-
multipass_group_name
                                                                                                                                                                                                                                                                                                                                                                                                                               attribute), 320
                                                           dico. modules. events. tracks. models. principals. Track \cite{Rrinding} in a dico. modules. designer. placeholders. Event \cite{RoomPlaceholder} and \cite{Rrinding} in a dico. modules. designer. placeholders. Event \cite{RoomPlaceholder} and \cite{Rrinding} in a dico. modules. designer. placeholders. Event \cite{RoomPlaceholder} and \cite{Rrinding} in a dico. modules. designer. placeholders. Event \cite{RoomPlaceholder} and \cite{Rrinding} in a dico. modules. designer. placeholders. Event \cite{Rrinding} and \cite{Rri
                                                          attribute), 261
                                                                                                                                                                                                                                                                                                                                                                                                                               attribute), 324
multipass_group_name
                                                                                                                                                                                                                                                                                                                                                               \verb|name| (indico.modules.designer.placeholders. Event Speakers Placeholder)|
                                                          dico.modules.rb.models.blocking_principals.BlockingPrincipatribute), 324
                                                           attribute), 295
                                                                                                                                                                                                                                                                                                                                                                   \verb|name| (indico.modules.designer.placeholders.EventTitlePlaceholder)|
multipass_group_provider
                                                                                                                                                                                                                                                                                                                               (in-
                                                                                                                                                                                                                                                                                                                                                                                                                               attribute), 323
                                                          dico. modules. attachments. models. principals. Attachment \textit{FoldierP. rived in els}. designer. placeholders. Event \textit{VenuePlaceholder} attachments \textit{VenueP
                                                          attribute), 286
                                                                                                                                                                                                                                                                                                                                                                                                                               attribute), 324
multipass_group_provider
                                                                                                                                                                                                                                                                                                                               (in-name\ (indico.modules.designer.placeholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.RegistrationAddressPlaceholders.Registration
                                                          dico.modules.attachments.models.principals.AttachmentPringipalute), 323
                                                          attribute), 287
                                                                                                                                                                                                                                                                                                                                                                    name (indico.modules.designer.placeholders.RegistrationAffiliationPlaceho
multipass_group_provider
                                                                                                                                                                                                                                                                                                                               (in-
                                                                                                                                                                                                                                                                                                                                                                                                                               attribute), 323
                                                          dico. modules. categories. models. principals. Category Paring in the own objects of the control of the contr
                                                          attribute), 267
                                                                                                                                                                                                                                                                                                                                                                                                                               attribute), 322
multipass group provider
                                                                                                                                                                                                                                                                                                                               (in-name\ (indico.modules.designer.placeholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.RegistrationCountryPlaceholders.Registration
                                                          dico.modules.events.contributions.models.principals.Contributions.ipgl
                                                           attribute), 176
                                                                                                                                                                                                                                                                                                                                                                    name (indico.modules.designer.placeholders.RegistrationEmailPlaceholder
multipass_group_provider
                                                                                                                                                                                                                                                                                                                               (in-
                                                                                                                                                                                                                                                                                                                                                                                                                               attribute), 322
                                                           dico. modules. events. models. principals. Event Principal_{\Theta} (indico. modules. designer. placeholders. Registration First Name Placeholders. Registration First Name Placeholders. The principal of the princi
                                                           attribute), 131
                                                                                                                                                                                                                                                                                                                                                                                                                               attribute), 321
multipass_group_provider
                                                                                                                                                                                                                                                                                                                               (in-name\ (indico.modules.designer.placeholders.RegistrationFriendlyIDP laceholders.RegistrationFriendlyIDP laceholders.RegistrationFriendlyRegistrationFriendlyRegistrationFriendlyRegistrationFriendlyRegistrationFriendlyRegistrationFriendlyRegi
                                                           dico.modules.events.models.settings.EventSettingPrincipal attribute), 322
                                                           attribute), 136
                                                                                                                                                                                                                                                                                                                                                                   name (indico.modules.designer.placeholders.RegistrationFullNameNoTitle.
multipass_group_provider
                                                                                                                                                                                                                                                                                                                                (in-
                                                                                                                                                                                                                                                                                                                                                                                                                               attribute), 320
                                                          dico. modules. events. sessions. models. principals. Sessions Principal modules. designer. placeholders. Registration Full Name No Title and the principal modules of the principal modules. The principal modules of the principal modules of the principal modules. The principal modules of the principal modules of the principal modules of the principal modules. The principal modules of the principal modules. The principal modules of the princip
                                                          attribute), 244
                                                                                                                                                                                                                                                                                                                                                                                                                               attribute), 320
multipass_group_provider
                                                                                                                                                                                                                                                                                                                               (in- name (indico.modules.designer.placeholders.RegistrationFullNameNoTitle
                                                          dico. modules. events. tracks. models. principals. TrackPrincipal {\it attribute}), 321
                                                          attribute), 261
                                                                                                                                                                                                                                                                                                                                                                   name (indico.modules.designer.placeholders.RegistrationFullNameNoTitle.
multipass_group_provider
                                                                                                                                                                                                                                                                                                                               (in-
                                                                                                                                                                                                                                                                                                                                                                                                                               attribute), 321
```

attribute), 295

 $dico. modules. rb. models. blocking_principals. B$ 

attribute), 320

- name (indico.modules.designer.placeholders.RegistrationFullNam(aRdicohobdudBs.events.abstracts.placeholders.TargetAbstractTitlePlaattribute), 320 attribute), 163
- name (indico.modules.designer.placeholders.RegistrationFullNorm(aRlliceholders.abstracts.placeholders.TargetSubmitterFirstNattribute), 320 attribute), 163
- name (indico.modules.designer.placeholders.RegistrationFullNorm(iRllicolmbdhrlDs.events.abstracts.placeholders.TargetSubmitterLastNormattribute), 321 attribute), 163
- name (indico.modules.designer.placeholders.RegistrationLastNam/áRdiacahobdarles.events.abstracts.placeholders.TargetSubmitterName. attribute), 321 attribute), 163
- name (indico.modules.designer.placeholders.RegistrationPhomePl(indiobderodules.events.agreements.placeholders.AgreementLinkPlacattribute), 323 attribute), 168
- name (indico.modules.designer.placeholders.RegistrationPositionPladitholdedules.events.agreements.placeholders.PersonNamePlaceholders.attribute), 323 attribute), 168
- name (indico.modules.designer.placeholders.RegistrationPriceRedicaldoctemodules.events.contributions.models.types.ContributionType
  attribute), 322
  attribute), 179
  name (indico modules designer placeholders RegistrationTicket@R.Blditahnlddules events layout models menu MenuEntry
- name (indico.modules.designer.placeholders.RegistrationTickæt@RPldiæholdenles.events.layout.models.menu.MenuEntry attribute), 322 attribute), 183
- name (indico.modules.designer.placeholders.RegistrationTitheRlaceinolider.modules.events.layout.util.MenuEntryData attribute), 321 attribute), 186
- name (indico.modules.events.abstracts.placeholders.Abstract&Del(ineliobdenodules.events.logs.renderers.EmailRenderer attribute), 159 attribute), 188
- name (indico.modules.events.abstracts.placeholders.Abstractsmvit\u00e4tindiciBh\u00e4h\u00e4labesheldents.logs.renderers.EventLogRendererBase attribute), 160 attribute), 188
- name (indico.modules.events.abstracts.placeholders.AbstractSussi(inRicmaholldes.events.logs.renderers.SimpleRenderer attribute), 161 attribute), 189
- name (indico.modules.events.abstracts.placeholders.AbstractTitke Pludidoobdadules.events.models.references.ReferenceType attribute), 159 attribute), 132
- name (indico.modules.events.abstracts.placeholders.AbstractTruekPldticahorlednles.events.models.settings.EventSetting attribute), 160 attribute), 135
- name (indico.modules.events.abstracts.placeholders.Abstract&RA.flhatiebohladules.events.models.settings.EventSettingPrincipal attribute), 160 attribute), 136
- name (indico.modules.events.abstracts.placeholders.CoAuthorsel/undiollerodules.events.papers.models.templates.PaperTemplate attribute), 161 attribute), 203
- name (indico.modules.events.abstracts.placeholders.Contribution TypeiPlanuchhillus:events.persons.placeholders.ContributionsPlaceholders.attribute), 164

  name (indico.modules.events.abstracts.placeholders.Contributions URAiPlanuchhillus:events.persons.placeholders.EmailPlaceholders.Contributions URAiPlanuchhillus:events.persons.placeholders.EmailPlaceholders.
- name (indico.modules.events.abstracts.placeholders.Contribution (IRAiPhanchhilles:events.persons.placeholders.EmailPlaceholder attribute), 164 attribute), 210
- name (indico.modules.events.abstracts.placeholders.EventTitbaRba(individenodules.events.persons.placeholders.EventLinkPlaceholder attribute), 159

  attribute), 211
- name (indico.modules.events.abstracts.placeholders.EventUREmPd(indicamodules.events.persons.placeholders.EventTitlePlaceholder attribute), 159 attribute), 211
- name (indico.modules.events.abstracts.placeholders.Judgment@enimdittP.knoelhubesleevents.persons.placeholders.FirstNamePlaceholder attribute), 164 attribute), 211
- name (indico.modules.events.abstracts.placeholders.PrimanyAnth@insdilac.ehodders.events.persons.placeholders.LastNamePlaceholder attribute), 161 attribute), 211
- name (indico.modules.events.abstracts.placeholders.Submittex:Fix:XiNdinoPhacehosderents.persons.placeholders.RegisterLinkPlaceholde attribute), 162 attribute), 212
- name (indico.modules.events.abstracts.placeholders.Submitteachæs(NudircePhandehlækdevents.registration.models.forms.RegistrationForm attribute), 162 attribute), 220
- name (indico.modules.events.abstracts.placeholders.SubmittexNanielliaoeholdeles.events.registration.placeholders.invitations.FirstNan attribute), 161 attribute), 231
- name (indico.modules.events.abstracts.placeholders.SubmitterTiel@indicehonlodenles.events.registration.placeholders.invitations.Invitation attribute), 162 attribute), 232
- name (indico.modules.events.abstracts.placeholders.TargetAbstractihDiPlanebabldes:events.registration.placeholders.invitations.LastNamattribute), 162 attribute), 232

```
name (indico.modules.events.registration.placeholders.registration.placeholders.RegistrationFullN
                                                                                                                                                                                                                                 attribute), 320
                                attribute), 229
name (indico.modules.events.registration.placeholders.registration.placeholders.registration.fullN
                                attribute), 229
                                                                                                                                                                                                                                  attribute), 321
name (indico.modules.events.registration.placeholders.registratioEx.FieldPlaceholdetclass
                                                                                                                                                                                                                                                                                                                                                                                 in-
                                                                                                                                                                                                                                 dico.modules.users.models.users), 271
                               attribute), 230
name (indico.modules.events.registration.placeholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.blaceholders.registration.bla
                                attribute), 230
                                                                                                                                                                                                                                  attribute), 147
name (indico.modules.events.registration.placeholders.registration.s.HPRlindiholderdules.events.logs.models.entries.EventLogKind
                               attribute), 230
                                                                                                                                                                                                                                 attribute), 187
name (indico.modules.events.registration.placeholders.registrættionsx.kdstillinnerNahdholndetworks.models.networks.IPNetwork
                                                                                                                                                                                                                                  attribute), 325
                                attribute), 231
name (indico.modules.events.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.registration.placeholders.placeholders.placeholders.placeholders.pla
                               attribute), 231
                                                                                                                                                                                                                                  attribute), 326
name (indico.modules.events.registration.placeholders.registENiDEs(Regiaationelledus.mpl.hnoelleduservations.RepeatFrequency
                                attribute), 231
                                                                                                                                                                                                                                  attribute), 296
name (indico.modules.events.requests.base.RequestDefinition:Bases ubmission_emails
                                attribute), 238
                                                                                                                                                                                                                                 dico.modules.events.surveys.models.surveys.Survey
name (indico.modules.groups.models.groups.LocalGroup
                                                                                                                                                                                                                                 attribute), 246
                                attribute), 310
                                                                                                                                                                                                new_tab (indico.modules.events.layout.models.menu.MenuEntry
name (indico.modules.networks.models.networks.IPNetworkGroup attribute), 184
                               attribute), 326
                                                                                                                                                                                                NewsItem (class in indico.modules.news.models.news),
                                                                                                                                                                                                                                  326
name (indico.modules.rb.models.equipment.EquipmentType
                                                                                                                                                                                                next() (indico.modules.events.payment.models.transactions.TransactionS
                                attribute), 295
name (indico.modules.rb.models.locations.Location at-
                                                                                                                                                                                                                                 class method), 208
                                                                                                                                                                                                NO_REPLY_EMAIL (built-in variable), 53
                               tribute), 296
                              (indico.modules.rb.models.map_areas.MapArea
                                                                                                                                                                                                NO_RESERVATION_USER_STRATEGY
                                                                                                                                                                                                                                                                                                                                                                               (in-
name
                               attribute), 296
                                                                                                                                                                                                                                 dico.modules.rb.models.reservation_occurrences.ReservationOcc
name (indico.modules.rb.models.room_attributes.RoomAttribute
                                                                                                                                                                                                                                 attribute), 300
                               attribute), 292
                                                                                                                                                                                                 nonbookable_periods
                                                                                                                                                                                                                                                                                                                                                                               (in-
name (indico.modules.rb.models.rooms.Room attribute),
                                                                                                                                                                                                                                  dico.modules.rb.models.rooms.Room attribute),
name (indico.modules.search.result_schemas.PersonSchematonBookablePeriod
                                                                                                                                                                                                                                                                                                          (class
                                attribute), 73
                                                                                                                                                                                                                                 dico.modules.rb.models.room_nonbookable_periods),
name (indico.modules.users.models.affiliations.UserAffiliation
                               attribute), 276
                                                                                                                                                                                                 none (indico.core.oauth.models.applications.SystemAppType
name (indico.modules.users.models.settings.UserSetting
                                                                                                                                                                                                                                 attribute), 307
                                attribute), 277
                                                                                                                                                                                                 \verb"none" (indico.modules.events.abstracts.models.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackModels.abstracts.EditTrackM
                          (indico.modules.users.models.users.PersonMixin
                                                                                                                                                                                                                                 attribute), 148
name
                                                                                                                                                                                                none (indico.modules.events.abstracts.settings.BOACorrespondingAuthorT
                               attribute), 272
name (indico.modules.vc.models.vc rooms.VCRoom at-
                                                                                                                                                                                                                                 attribute), 165
                                                                                                                                                                                                 none (indico.modules.events.contributions.models.persons.AuthorType
                                tribute), 312
name_options (indico.modules.designer.placeholders.RegistrationEttHMuta);NoTitlePlaceholder
                               attribute), 320
                                                                                                                                                                                                 \verb"none" (indico.modules.events.time table.reschedule.Reschedule Modelle Mode
name_options (indico.modules.designer.placeholders.RegistrationEttliName,NoEttlePlaceholderB
                                                                                                                                                                                                 none (indico.modules.users.models.users.UserTitle at-
                                attribute), 320
name_options (indico.modules.designer.placeholders.RegistrationFriblNe)n2NoTitlePlaceholderC
                                                                                                                                                                                                 not_allowed(indico.modules.events.registration.models.forms.Modifica
                               attribute), 321
name_options (indico.modules.designer.placeholders.RegistrationEttliblatme,NaTitlePlaceholderD
                               attribute), 321
                                                                                                                                                                                                 not_empty_answers
name_options (indico.modules.designer.placeholders.RegistrationHidbNandaResackentusesurveys.models.items.SurveyQuestion
                               attribute), 320
                                                                                                                                                                                                                                 attribute), 249
name_options (indico.modules.designer.placeholders.RegistrationeFull\(\frac{\text{Vadie P.Inocholes!evP}}{\text{Particular}}\) en tions (indico.modules.designer.placeholders.RegistrationeFull\(\frac{\text{Vadie P.Inocholes!evP}}{\text{Vadie P.Inocholes!evP}}\) en tions (indico.modules.designer.placeholders.P.Inocholes.designer.placeholders.P.Inocholes.designer.placeholders.P.Inocholes.desi
                                attribute), 320
                                                                                                                                                                                                                                 attribute), 247
```

```
not_started(indico.modules.events.abstracts.models.abstracts.AbstrabtRe);i2WIngState
                              attribute), 147
                                                                                                                                                                                    nth_parent() (indico.modules.categories.models.categories.Category
note (indico.modules.events.contributions.models.contributions.Contribution), 266
                                                                                                                                                                                    number (indico.modules.events.papers.models.revisions.PaperRevision
                              attribute), 171
note (indico.modules.events.contributions.models.subcontributions.Sadb Conte) button
                             attribute), 178
                                                                                                                                                                                     number
                                                                                                                                                                                                                       (indico.modules.rb.models.rooms.Room
                                         (indico.modules.events.models.events.Event
                                                                                                                                                                                                                   tribute), 292
note
                              attribute), 126
\verb"note" (indico.modules.events.notes.models.notes. EventNote \cite{W} vision
                              attribute), 192
                                                                                                                                                                                     OAuth2AuthorizationCode
                                                                                                                                                                                                                                                                                                         (class
                                                                                                                                                                                                                                                                                                                                       in
                                                                                                                                                                                                                                                                                                                                                         in-
{\tt note} (indico.modules.events.sessions.models.blocks.SessionBlock
                                                                                                                                                                                                                  dico.core.oauth.models.tokens), 307
                              attribute), 242
                                                                                                                                                                                     OAuthApplication
                                                                                                                                                                                                                                                                                   (class
                                                                                                                                                                                                                                                                                                                                                         in-
note (indico.modules.events.sessions.models.sessions.Session
                                                                                                                                                                                                                   dico.core.oauth.models.applications), 304
                              attribute), 241
                                                                                                                                                                                     OAuthApplicationUserLink
                                                                                                                                                                                                                                                                                                            (class
                                                                                                                                                                                                                                                                                                                                                         in-
note_added (in module indico.core.signals.event), 85
                                                                                                                                                                                                                   dico.core.oauth.models.applications), 307
note_deleted (in module indico.core.signals.event),
                                                                                                                                                                                    OAuthToken
                                                                                                                                                                                                                                                                                                                                                         in-
                                                                                                                                                                                                                   dico.core.oauth.models.tokens), 308
\verb|note_id| (indico.modules.events.notes.models.notes.EventNotes_EventNotes_id)| Indico.modules.events.models.persons.PersonLinkBase (indico.modules.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.notes.events.note
                              attribute), 192
                                                                                                                                                                                                                   attribute), 130
\verb|note_id| (indico.modules.search.result\_schemas. Event Note Result Schemas. Event Note Result Schem
                              attribute), 73
                                                                                                                                                                                                                   attribute), 255
note_modified (in module indico.core.signals.event),
                                                                                                                                                                                    object_relationship_name
                                                                                                                                                                                                                   dico.modules.events.abstracts.models.persons.AbstractPersonLin
note restored (in module indico.core.signals.event),
                                                                                                                                                                                                                   attribute), 153
                              85
                                                                                                                                                                                     object_relationship_name
notification_before_days
                                                                                                                                                                  (in-
                                                                                                                                                                                                                   dico.modules.events.contributions.models.persons.ContributionPe
                              dico.modules.rb.models.rooms.Room attribute),
                                                                                                                                                                                                                   attribute), 175
                                                                                                                                                                                     object_relationship_name
notification_before_days_monthly
                                                                                                                                                                  (in-
                                                                                                                                                                                                                   dico. modules. events. contributions. models. persons. Sub Contributions and the substitution of the sub
                              dico.modules.rb.models.rooms.Room attribute),
                                                                                                                                                                                                                   attribute), 175
                                                                                                                                                                                     object_relationship_name
notification_before_days_weekly
                                                                                                                                                                  (in-
                                                                                                                                                                                                                   dico.modules.events.models.persons.EventPersonLink
                              dico.modules.rb.models.rooms.Room attribute),
                                                                                                                                                                                                                   attribute), 129
                                                                                                                                                                                     object_relationship_name
notification emails
                                                                                                                                                                  (in-
                                                                                                                                                                                                                   dico.modules.events.models.persons.PersonLinkBase
                             dico.modules.rb.models.rooms.Room attribute),
                                                                                                                                                                                                                   attribute), 130
                                                                                                                                                                                     object_relationship_name
                                                                                                                                                                                                                                                                                                                                                       (in-
notification_sender_address
                                                                                                                                                                  (in-
                                                                                                                                                                                                                   dico.modules.events.sessions.models.persons.SessionBlockPerson
                              dico.modules.events.registration.models.forms.RegistrationFortmbute), 243
                             attribute), 220
                                                                                                                                                                                     occurrences (indico.modules.rb.models.reservations.Reservation
notification sent
                                                                                                                                                                  (in-
                                                                                                                                                                                                                   attribute), 298
                              dico.modules.rb.models.reservation\_occurrences. {\tt Reservation} {\tt Qecsurrences}. {\tt Reservation} {\tt Qecsurrences} {\tt Reservation} {\tt Reservation
                                                                                                                                                                                                                                                                                    (class
                                                                                                                                                                                                                                                                                                                            in
                                                                                                                                                                                                                                                                                                                                                         in-
                             attribute), 300
                                                                                                                                                                                                                   dico.web.forms.fields), 340
notifications_enabled
                                                                                                                                                                  (in-
                                                                                                                                                                                    old_api_keys (indico.modules.users.models.users.User
                             dico. modules. events. surveys. models. surveys. Survey
                                                                                                                                                                                                                   attribute), 275
                              attribute), 246
                                                                                                                                                                                     open() (indico.modules.events.abstracts.models.call_for_abstracts.CallFo
notifications_enabled
                                                                                                                                                                  (in-
                                                                                                                                                                                                                   method), 148
                              dico.modules.rb.models.rooms.Room attribute),
                                                                                                                                                                                                                (indico.modules.events.papers.models.call_for_papers.CallForPapers.
                              291
                                                                                                                                                                                                                   method), 193
notify_managers
                                                                                                                                                                  (in-
                                                                                                                                                                                    open () (indico.modules.events.surveys.models.surveys.Survey
                              dico.modules.categories.models.categories.Category
                                                                                                                                                                                                                   method), 247
                             attribute), 266
                                                                                                                                                                                     open cfa()
                                                                                                                                                                                                                                                                                                      module
                                                                                                                                                                                                                                                                                                                                                         in-
notify_participants
                                                                                                                                                                  (in-
                                                                                                                                                                                                                   dico.modules.events.abstracts.operations),
                              dico.modules.events.surveys.models.surveys.Survey
                                                                                                                                                                                                                   157
```

(in- own venue (indico.modules.events.sessions.models.blocks.SessionBlock

```
module
                                                                                                                                       dico.modules.events.contributions.models.contributions.Contribu
open_cfp()
                                                (in
                                                                                                         in-
                   dico.modules.events.papers.operations),
                                                                                                                                       attribute), 171
                                                                                                                    own no access contact
                                                                                                                                                                                                                            (in-
                                                                                                                                       dico.modules.events.models.events.Event
option_widget
                                                                                                        (in-
                   dico. web. forms. fields. Indico Enum Radio Field \\
                                                                                                                                       attribute), 126
                  attribute), 341
                                                                                                                    own no access contact
                                                                                                                                                                                                                            (in-
                                                                                                                                       dico.modules.events.sessions.models.sessions.Session
option_widget
                                                                                                        (in-
                   dico.web.forms.fields.IndicoQuerySelectMultipleCheckboxFixtdibute), 241
                  attribute), 345
                                                                                                                    own_no_access_contact
                                                                                                                                                                                                                            (in-
option_widget
                                                                                                        (in-
                                                                                                                                       dico.modules.events.tracks.models.tracks.Track
                   dico.web. forms. fields. IndicoSelect Multiple Checkbox Field
                                                                                                                                      attribute), 260
                   attribute), 334
                                                                                                                    own_no_access_contact
                                                                                                        (in-
                                                                                                                                       dico.modules.rb.models.rooms.Room attribute),
order_by_name
                  dico.modules.events.registration.models.registrations.Registration
                                                                                                                    \verb"own_room" (indico.modules.events.contributions.models.contributions. Contributions) and the property of the contribution o
                  attribute), 214
organizer_info
                                                                                                        (in-
                                                                                                                                        attribute), 171
                                                                                                                    own_room (indico.modules.events.models.events.Event
                  dico.modules.events.models.events.Event
                   attribute), 126
                                                                                                                                       attribute), 126
attribute), 187
                                                                                                                                       attribute), 242
overlaps() (indico.modules.rb.models.reservation_occurrences.Bessetindico.Oucdulæsneeents.sessions.models.sessions.Session
                                                                                                                                       attribute), 241
                  method), 300
overlaps() (indico.modules.rb.models.room_nonbookablewperiodsxiNomdbiokubleHesiodents.timetable.models.breaks.Break
                  method), 293
                                                                                                                                       attribute), 254
override_request_endpoint() (in module in- own_room_id(indico.modules.events.contributions.models.contributions
                   dico.modules.events.static.util), 263
                                                                                                                                       attribute), 171
OverrideMultipleItemsField (class
                                                                                                                   own_room_id(indico.modules.events.models.events.Event
                                                                                                in
                                                                                                        in-
                  dico.web.forms.fields), 343
                                                                                                                                       attribute), 126
OverviewStats
                                                      (class
                                                                                                                   own_room_id (indico.modules.events.sessions.models.blocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.SessionBlocks.
                                                                                                          in-
                   dico.modules.events.registration.stats), 234
                                                                                                                                       attribute), 242
own_address (indico.modules.events.contributions.models.wantributions:Qindiributiodules.events.sessions.models.sessions.Session
                  attribute), 171
                                                                                                                                       attribute), 241
own_address(indico.modules.events.models.events.Eventown_room_id(indico.modules.events.timetable.models.breaks.Break
                   attribute), 126
                                                                                                                                       attribute), 254
own address (indico.modules.events.sessions.models.blockssSessionBlockse
                                                                                                                                       dico.modules.events.contributions.models.contributions.Contribu
                  attribute), 242
own address (indico.modules.events.sessions.models.sessions.Sessionribute), 171
                   attribute), 241
                                                                                                                   own_room_name
                                                                                                                                                                                                                            (in-
own_address(indico.modules.events.timetable.models.breaks.Breaklico.modules.events.models.events.Event
                  attribute), 254
                                                                                                                                       attribute), 126
own data (indico.modules.events.registration.models.items.kagistrationFormsSection
                                                                                                                                                                                                                            (in-
                                                                                                                                       dico.modules.events.sessions.models.blocks.SessionBlock
                   attribute), 226
own_map_url(indico.modules.events.models.events.Event
                                                                                                                                       attribute), 242
                  attribute), 126
                                                                                                                                                                                                                            (in-
                                                                                                                    own_room_name
own_no_access_contact
                                                                                                        (in-
                                                                                                                                       dico. modules. events. sessions. models. sessions. Session\\
                  dico.modules.attachments.models.attachments.Attachment attribute), 241
                  attribute), 282
                                                                                                                    own room name
                                                                                                                                       dico.modules.events.timetable.models.breaks.Break
own_no_access_contact
                                                                                                        (in-
                  dico.modules.attachments.models.folders.AttachmentFolderattribute), 254
                  attribute), 285
                                                                                                                    own_venue (indico.modules.events.contributions.models.contributions.Co
own_no_access_contact
                                                                                                                                       attribute), 171
                                                                                                        (in-
                  dico.modules.categories.models.categoryen_venue (indico.modules.events.models.events.Event
                  attribute), 266
                                                                                                                                       attribute), 126
```

Index 447

own_no_access_contact

attribute), 242		indico.modules.events.papers.models.revisio	ons.PaperRevision
own_venue (indico.modules.events.sessions.models			
attribute), 241		_content_reviewers	(in-
$\verb"own_venue" (indico.modules.events.timetable.mode")$	ls.breaks.Break	dico. modules. events. contributions. models.	contributions.Contribu
attribute), 254		attribute), 171	
own_venue_id(indico.modules.events.contributio	ns.modøkspe <b>en</b> t <u>r</u>	<del>ibutious</del> sC <b>indicouniod</b> ules.events.contributio	ons.models.contribution
attribute), 171		attribute), 171	
own_venue_id(indico.modules.events.models.eve	<i>nts.Eve</i> ptaper_	_layout_reviewers	(in-
attribute), 126		dico. modules. events. contributions. models.	contributions.Contribu
own_venue_id(indico.modules.events.sessions.ma			
attribute), 242		revision	(in-
own_venue_id(indico.modules.events.sessions.ma	odels.sessions.S	e <b>shicon</b> modules.events.papers.models.comme	ents.PaperReviewComn
attribute), 241		attribute), 194	
own_venue_id(indico.modules.events.timetable.m	10dels.hprapks:1 <u>B</u> 1		(in-
attribute), 254		dico. modules. events. papers. models. files. Position of the property of th	iperFile
own_venue_name	(in-	attribute), 196	
dico. modules. events. contributions. models.	contribuHtiopas.£&		in-
attribute), 171		dico.modules.events.papers.models.review	s),
own_venue_name	(in-	198	
dico.modules.events.models.events.Event	PaperC	commentVisibility (class in	in-
attribute), 126		dico.modules.events.papers.models.review	s),
own_venue_name	(in-	198	
dico.modules.events.sessions.models.block	s. <i>Sessio∄n</i> Bopæk∶C		in-
attribute), 242		dico.modules.events.papers.models.compe	tences),
own_venue_name	(in-	195	
dico.modules.events.sessions.models.sessio attribute), 241		dico.modules.events.papers.fields), 331	in-
own_venue_name	(in- PaperF	ile (class in	in-
dico.modules.events.timetable.models.brea attribute), 254	ks.Break	dico.modules.events.papers.models.files), 195	
own_visibility_horizon	(in- PaperJ	TudgmentProxy (class in	in-
dico.modules.categories.models.categories	.Category	dico.modules.events.papers.models.review.	s),
attribute), 266		199	
$\verb"owner" (indico.modules.designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.templates.Designer.models.t$	esigne <b>r:Tæpıpk</b> æ		in-
attribute), 318		dico.modules.events.papers.models.review	s),
owner (indico.modules.rb.models.rooms.Room		199	
tribute), 292		deviewComment (class in	in-
<pre>owner_id (indico.modules.rb.models.rooms.Room</pre>	e at-	dico.modules.events.papers.models.comme 194	ents),
D	PaperR	deviewQuestion (class in	in-
P		dico.modules.events.papers.models.review	_questions),
page (indico.modules.events.layout.models.menu.Me	enuEntry	197	
attribute), 184	PaperR	deviewRating (class in	in-
page (indico.modules.events.layout.models.menu.Moattribute), 184	enuEntryType	dico.modules.events.papers.models.review 198	_ratings),
<pre>page_id(indico.modules.events.layout.models.men</pre>	u.Menu <b>Emp</b> rR	<pre>leviewType (class in   dico.modules.events.papers.models.review.</pre>	in- s),
Paper (class in indico.modules.events.papers.model	s.papers),	200	
196	PaperR	devision (class in	in-
paper (indico.modules.events.contributions.models.	contributions.C	odiศษาการปุ่นles.events.papers.models.revisio	ns),
attribute), 171		200	
paper (indico.modules.events.papers.models.files.Pa	<i>aperFil</i> PaperR	devisionState (class in	in-
attribute), 196		dico.modules.events.papers.models.revisio	ns),
		202	

```
PaperTemplate
                           (class
                                                                  attribute), 126
         dico.modules.events.papers.models.templates),
                                                         password (indico.modules.auth.models.identities.Identity
                                                                  attribute), 302
                            (class
                                                         password_hash
PaperTypeProxy
                                          in
                                                    in-
                                                                                                            (in-
         dico.modules.events.papers.models.reviews),
                                                                   dico.modules.auth.models.identities.Identity
                                                                  attribute), 302
                                                   (in- payment_dt (indico.modules.events.registration.models.registrations.Reg
param_required
         dico.modules.events.persons.placeholders.ContributionsPlaaetröbdee), 214
         attribute), 210
                                                         PaymentPluginMixin
                                                                                         (class
                                                                                                             in-
                                                                                                     in
                                                                  dico.modules.events.payment.plugins), 209
param_required
                                                   (in-
         dico.modules.events.registration.placeholders.registraqtions:#FieldPlaceholder
                                                                                         (class
                                                                                                             in-
                                                                   dico.modules.events.payment.models.transactions),
         attribute), 230
param_restricted
                                                   (in-
         dico.modules.events.persons.placeholders.ContribationsPlaceholder
                                                                                   (class
                                                                                                  in
                                                                                                             in-
                                                                   dico.modules.attachments.preview), 288
         attribute), 210
param_restricted
                                                   (in-pending (indico.modules.events.agreements.models.agreements.Agreement
         dico.modules.events.registration.placeholders.registrations.EiteldPlteojeh6lder
         attribute), 230
                                                         pending (indico.modules.events.agreements.models.agreements.Agreements.
                                                   (in-
parent_chain_query
                                                                  attribute), 167
         dico.modules.categories.models.categories.Categorending (indico.modules.events.payment.models.transactions.Transaction
         attribute), 266
                                                                   attribute), 208
parent_id (indico.modules.categories.models.categories.Categories, Category (indico.modules.events.payment.models.transactions.Transaction
         attribute), 266
                                                                   attribute), 208
parent id (indico.modules.events.layout.models.menu.MenuEntrya (indico.modules.events.registration.models.invitations.Invitations.
         attribute), 184
                                                                   attribute), 221
parent_id (indico.modules.events.registration.models.forpe_fielides.RegistrationeHalesFielels.registration.models.registrations.Registratione
                                                                   attribute), 217
         attribute), 217
parent_id (indico.modules.events.registration.models.forpre_fielids.de/eijslinationoHatesRevisotsald@untesfisehbdels.requests.RequestState
                                                                   attribute), 237
         attribute), 218
parent_id (indico.modules.events.registration.models.iteme.RegistrationiFormothubes.events.static.models.static.StaticState
         attribute), 224
                                                                   attribute), 263
parent_id(indico.modules.events.registration.models.iteme.RegistrationmuRentenabDutd8ke:tiloreked_rooms.BlockedRoomState
         attribute), 225
                                                                   attribute), 294
parent_id (indico.modules.events.registration.models.iteme.Registrationmodels.reservations.ReservationState
                                                                   attribute), 299
         attribute), 226
parent_id (indico.modules.events.registration.models.iteme.RegistrationsFormEext
                                                                                                            (in-
         attribute), 226
                                                                  dico.modules.events.surveys.models.submissions.SurveySubmissions.
parent_id(indico.modules.events.surveys.models.items.SurveyItemattribute), 251
                                                         pending_paper_files
         attribute), 248
                                                                                                            (in-
parent_id(indico.modules.events.surveys.models.items.SurveyQuediammodules.events.contributions.models.contributions.Contribu
         attribute), 249
                                                                  attribute), 171
parent\_id (indico.modules.events.surveys.models.items.Specessinons (indico.modules.categories.models.principals.CategoryPri
         attribute), 250
                                                                  attribute), 267
parent_id (indico.modules.events.surveys.models.items.Special ions (indico.modules.events.contributions.models.principals.Co
         attribute), 250
                                                                  attribute), 176
parent_id (indico.modules.events.timetable.models.entriex=EimetableEntr(indico.modules.events.models.principals.EventPrincipal
         attribute), 255
                                                                  attribute), 131
                                                   (in-permissions (indico.modules.events.sessions.models.principals.Session
partial_completion
         dico.modules.events.surveys.models.surveys.Survey
                                                                  attribute), 244
                                                         permissions (indico.modules.events.tracks.models.principals.TrackPrin
participants (indico.modules.events.logs.models.entries.EventLogtRaiblute), 261
         attribute), 188
                                                         permissions_info
participation_regform
                                                   (in-
                                                                  dico.modules.events.abstracts.fields.TrackRoleField
         dico.modules.events.models.events.Event
                                                                  attribute), 331
```

```
person (indico.modules.events.abstracts.models.persons.AbstractPerkianlinddules.events.fields.EventPersonLinkListField
                                                                                                                                                                                                                                                                    attribute), 327
                                     attribute), 153
person (indico.modules.events.contributions.models.persops:ContributionsPersonLink
                                                                                                                                                                                                                                                                    dico.modules.events.fields.PersonLinkListFieldBase
                                     attribute), 175
person (indico.modules.events.contributions.models.persons.SubConstitibilitation)PersonLink
                                     attribute), 175
                                                                                                                                                                                                                              person link cls
                                                                                                                                                                                                                                                                                                                                                                                                                                       (in-
person (indico.modules.events.models.persons.EventPersonLink
                                                                                                                                                                                                                                                                   attribute), 129
                                                                                                                                                                                                                                                                    attribute), 333
person(indico.modules.events.models.persons.PersonLinkBaxeson_link_data
                                                                                                                                                                                                                                                                                                                                                                                                                                       (in-
                                                                                                                                                                                                                                                                    dico.modules.events.models.persons.PersonLinkDataMixin
                                     attribute), 130
person (indico.modules.events.sessions.models.persons.SessionBlockPeriband);n180
                                     attribute), 243
                                                                                                                                                                                                                              person_link_unique_columns
person_email (indico.modules.events.agreements.models.agreementiscoArgraduntes.events.abstracts.models.persons.AbstractPersonLin.
                                                                                                                                                                                                                                                                   attribute), 153
                                    attribute), 166
person_id(indico.modules.events.abstracts.models.persones.AbstractRarkonLinkque_columns
                                     attribute), 153
                                                                                                                                                                                                                                                                    dico.modules.events.contributions.models.persons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPersons.ContributionPer
person_id (indico.modules.events.contributions.models.persons.Conttribution,PRdEsonLink
                                                                                                                                                                                                                              person_link_unique_columns
person_id(indico.modules.events.contributions.models.persons.SubContributions.models.persons.SubContributions.models.persons.SubContributions.models.persons.SubContributions.models.persons.SubContributions.models.persons.SubContributions.models.persons.SubContributions.models.persons.SubContributions.models.persons.SubContributions.models.persons.SubContributions.models.persons.SubContributions.models.persons.SubContributions.models.persons.SubContributions.models.persons.SubContributions.models.persons.SubContributions.models.persons.SubContributions.models.persons.SubContributions.models.persons.SubContributions.models.persons.SubContributions.models.persons.SubContributions.models.persons.SubContributions.models.persons.SubContributions.models.persons.SubContributions.models.persons.SubContributions.models.persons.SubContributions.models.persons.SubContributions.models.persons.SubContributions.persons.SubContributions.persons.SubContributions.Persons.SubContributions.Persons.SubContributions.Persons.SubContributions.Persons.SubContributions.Persons.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContributions.SubContri
                                     attribute), 175
                                                                                                                                                                                                                                                                    attribute), 175
person_id(indico.modules.events.models.persons.EventReesonbinklink_unique_columns
                                                                                                                                                                                                                                                                                                                                                                                                                                       (in-
                                                                                                                                                                                                                                                                    dico.modules.events.models.persons.EventPersonLink
                                     attribute), 129
person_id (indico.modules.events.models.persons.PersonLinkBase attribute), 129
                                                                                                                                                                                                                              person_link_unique_columns
                                     attribute), 130
person_id (indico.modules.events.sessions.models.persons.SessionBiockfledsdnLinkents.models.persons.PersonLinkBase
                                    attribute), 243
                                                                                                                                                                                                                                                                    attribute), 130
person_link_backref_name
                                                                                                                                                                                                        (in- person_link_unique_columns
                                                                                                                                                                                                                                                                                                                                                                                                                                       (in-
                                    dico. modules. events. abstracts. models. persons. Abstract Person il \textit{Linux} handle odules. events. sessions. models. persons. Session Block Person il \textit{Linux} handle odules. events. sessions. models. persons. Session Block Person il \textit{Linux} handle odules. events. 
                                    attribute), 153
                                                                                                                                                                                                                                                                   attribute), 243
person_link_backref_name
                                                                                                                                                                                                        (in- person_links (indico.modules.events.abstracts.models.abstracts.Abstracts.Abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstract
                                    dico.modules.events.contributions.models.persons.Contributions.models.persons.Contributions.models.persons.Contributions.models.persons.Contributions.models.persons.Contributions.models.persons.Contributions.models.persons.Contributions.models.persons.Contributions.models.persons.Contributions.models.persons.Contributions.models.persons.Contributions.models.persons.Contributions.models.persons.Contributions.models.persons.Contributions.models.persons.Contributions.models.persons.Contributions.models.persons.Contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contributions.contrib
                                    attribute), 175
                                                                                                                                                                                                                              person_links (indico.modules.events.contributions.models.contribution
person_link_backref_name
                                                                                                                                                                                                        (in-
                                                                                                                                                                                                                                                                    attribute), 171
                                     dico.modules.events.contributions.models.persons; Sub Contributions Pardin binto dules.events.contributions.models.subcontribu
                                    attribute), 175
                                                                                                                                                                                                                                                                    attribute), 178
person_link_backref_name
                                                                                                                                                                                                        (in- person_links (indico.modules.events.models.events.Event
                                     dico.modules.events.models.persons.EventPersonLink
                                                                                                                                                                                                                                                                    attribute), 126
                                     attribute), 129
                                                                                                                                                                                                                               person_links (indico.modules.events.sessions.models.blocks.SessionBl
person_link_backref_name
                                                                                                                                                                                                        (in-
                                                                                                                                                                                                                                                                    attribute), 242
                                    dico.modules.events.models.persons.PersonLink B q serson_name (indico.modules.events.agreements.models.agreements.Agreements.Agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.ag
                                    attribute), 130
                                                                                                                                                                                                                                                                   attribute), 166
person_link_backref_name
                                                                                                                                                                                                        (in- person_updated
                                                                                                                                                                                                                                                                                                                                                                                 module
                                                                                                                                                                                                                                                                                                                                                                                                                                         in-
                                    dico.modules.events.sessions.models.persons.SessionBlockPdisonbineksignals.event), 85
                                    attribute), 243
                                                                                                                                                                                                                              personal_data_type
                                                                                                                                                                                                                                                                                                                                                                                                                                       (in-
                                                                                                                                                                                                                                                                    dico.modules.events.registration.models.form_fields.Registration1
person_link_cls
                                                                                                                                                                                                        (in-
                                     dico.modules.events.abstracts.fields.AbstractPersonLinkListEiteliabute), 217
                                                                                                                                                                                                                              personal_data_type
                                    attribute), 329
                                                                                                                                                                                                                                                                    dico.modules.events.registration.models.form_fields.Registration1
person_link_cls
                                                                                                                                                                                                        (in-
                                     dico.modules.events.contributions.fields.ContributionPersonditmldiutef;ields
                                    attribute), 331
                                                                                                                                                                                                                              personal_data_type
                                                                                                                                                                                                                                                                    dico.modules.events.registration.models.items.RegistrationFormItems.
person_link_cls
                                                                                                                                                                                                        (in-
                                    dico.modules.events.contributions.fields.SubContributionPewstoribitkLi3tF4eld
                                    attribute), 331
                                                                                                                                                                                                                               personal_data_type
                                                                                                                                                                                                                                                                                                                                                                                                                                       (in-
person_link_cls
                                                                                                                                                                                                        (in-
                                                                                                                                                                                                                                                                    dico.modules.events.registration.models.items.RegistrationFormP
```

```
attribute), 225
                                                                                                                                                                                                     plugin (indico.modules.events.payment.models.transactions.PaymentTran
                                                                                                                                                                                 (in-
personal_data_type
                                                                                                                                                                                                                                       attribute), 207
                                dico.modules.events.registration.models.items.RegistrationRondisocniodules.events.requests.base.RequestDefinitionBase
                                attribute), 226
                                                                                                                                                                                                                                       attribute), 239
personal_data_type
                                                                                                                                                                                 (in- plugin (indico.modules.vc.models.vc_rooms.VCRoom
                                dico.modules.events.registration.models.items.RegistrationFattriBexte), 312
                                attribute), 226
                                                                                                                                                                                                      plugin_link (indico.modules.events.layout.models.menu.MenuEntryTyp
PersonalDataType
                                                                                                         (class
                                                                                                                                                    in
                                                                                                                                                                                    in-
                                                                                                                                                                                                                                       attribute), 184
                                 dico.modules.events.registration.models.items),
                                                                                                                                                                                                     plugin_url_rule_to_js()
                                                                                                                                                                                                                                                                                                                                                      module
                                                                                                                                                                                                                                                                                                                                                                                          in-
                                 223
                                                                                                                                                                                                                                       dico.core.plugins), 80
PersonLinkBase
                                                                                                  (class
                                                                                                                                                 in
                                                                                                                                                                                                     PluginCategory (class in indico.core.plugins), 80
                                                                                                                                                                                    in-
                                dico.modules.events.models.persons), 129
                                                                                                                                                                                                     PLUGINS (built-in variable), 57
PersonLinkDataMixin
                                                                                                                  (class
                                                                                                                                                                                                     populate_obj() (indico.web.forms.fields.JSONField
                                                                                                                                                          in
                                                                                                                                                                                    in-
                                dico.modules.events.models.persons), 130
                                                                                                                                                                                                                                       method), 335
PersonLinkListFieldBase
                                                                                                                               (class
                                                                                                                                                                                                     position (indico.modules.categories.models.categories.Category
                                                                                                                                                                                    in-
                                dico.modules.events.fields), 328
                                                                                                                                                                                                                                       attribute), 266
PersonMixin
                                                                                       (class
                                                                                                                                                                                                     position (indico.modules.events.abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.Abstracts.models.email_templates.A
                                                                                                                                            in
                                                                                                                                                                                    in-
                                dico.modules.users.models.users), 271
                                                                                                                                                                                                                                       attribute), 151
                                                                                                                                                                                                     \verb"position" (indico.modules.events.abstracts.models.review_questions. Abstracts.models.review_questions. Abstracts.models.review.questions.doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/doi.org/do
PersonNamePlaceholder
                                                                                                                         (class
                                                                                                                                                                                    in-
                                dico.modules.events.agreements.placeholders),
                                                                                                                                                                                                                                       attribute), 154
                                                                                                                                                                                                      position (indico.modules.events.contributions.models.fields.Contribution
persons (indico.modules.search.result_schemas.ContributionResultSchrebnae), 173
                                                                                                                                                                                                      position (indico.modules.events.contributions.models.subcontributions.
                                 attribute), 72
persons (indico.modules.search.result_schemas.EventResultSchemattribute), 178
                                attribute), 71
                                                                                                                                                                                                      position (indico.modules.events.layout.models.menu.MenuEntry
PersonSchema
                                                                                           (class
                                                                                                                                                                                                                                       attribute), 184
                                 dico.modules.search.result_schemas), 73
                                                                                                                                                                                                     position (indico.modules.events.papers.models.review_questions.Paper)
phone (indico.modules.events.models.persons.EventPerson
                                                                                                                                                                                                                                       attribute), 198
                                                                                                                                                                                                     position (indico.modules.events.registration.models.form_fields.Registration.models.form_fields.Registration.models.form_fields.Registration.models.form_fields.Registration.models.form_fields.Registration.models.form_fields.Registration.models.form_fields.Registration.models.form_fields.Registration.models.form_fields.Registration.models.form_fields.Registration.models.form_fields.Registration.models.form_fields.Registration.models.form_fields.Registration.models.form_fields.Registration.models.form_fields.Registration.models.form_fields.Registration.models.form_fields.Registration.models.form_fields.Registration.models.form_fields.Registration.models.form_fields.Registration.models.form_fields.Registration.models.form_fields.Registration.models.form_fields.Registration.form.fields.Registration.form.fields.Registration.form.fields.Registration.form.fields.Registration.fields.form.fields.Registration.fields.form.fields.Registration.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.fo
                                attribute), 129
phone (indico.modules.events.models.persons.PersonLinkBase
                                                                                                                                                                                                                                       attribute), 217
                                 attribute), 130
                                                                                                                                                                                                     position (indico.modules.events.registration.models.form_fields.Registration.models.form_fields.Registration.models.form_fields.Registration.models.form_fields.Registration.models.form_fields.Registration.models.form_fields.Registration.models.form_fields.Registration.models.form_fields.Registration.models.form_fields.Registration.models.form_fields.Registration.models.form_fields.Registration.models.form_fields.Registration.models.form_fields.Registration.models.form_fields.Registration.models.form_fields.Registration.models.form_fields.Registration.models.form_fields.Registration.models.form_fields.Registration.models.form_fields.Registration.models.form_fields.Registration.models.form_fields.Registration.models.form_fields.Registration.form.fields.Registration.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.form.fields.
phone (indico.modules.events.registration.models.items.PersonalDataTypleute), 218
                                attribute), 223
                                                                                                                                                                                                     position (indico.modules.events.registration.models.items.PersonalData
                                 (indico.modules.users.models.users.User
                                                                                                                                                                                                                                       attribute), 223
phone
                                                                                                                                                                                    at-
                                 tribute), 275
                                                                                                                                                                                                     position (indico.modules.events.registration.models.items.RegistrationF
Photo (class in indico.modules.rb.models.photos), 296
                                                                                                                                                                                                                                       attribute), 224
                                    (indico.modules.rb.models.rooms.Room
                                                                                                                                                                                                     position (indico.modules.events.registration.models.items.RegistrationF
                                 tribute), 292
                                                                                                                                                                                                                                       attribute), 225
photo_id (indico.modules.rb.models.rooms.Room at-
                                                                                                                                                                                                     position (indico.modules.events.registration.models.items.RegistrationF
                                tribute), 292
                                                                                                                                                                                                                                       attribute), 226
                                                                                                                                                                                                     \verb"position" (indico.modules.events.registration.models.items. Registration Formula (indico.modules.events.registration) and the position of 
picture (indico.modules.users.models.users.User at-
                                tribute), 275
                                                                                                                                                                                                                                       attribute), 226
picture_metadata
                                                                                                                                                                                 (in-
                                                                                                                                                                                                     position (indico.modules.events.surveys.models.items.SurveyItem
                                dico.modules.users.models.users.User
                                                                                                                                                                                                                                       attribute), 248
                                                                                                                                                                                    at-
                                tribute), 275
                                                                                                                                                                                                     position (indico.modules.events.surveys.models.items.SurveyQuestion
                                                                                                                                                                                                                                       attribute), 249
picture_source
                                                                                                                                                                                 (in-
                                dico.modules.users.models.users.User
                                                                                                                                                                                    at-
                                                                                                                                                                                                     position (indico.modules.events.surveys.models.items.SurveySection
                                tribute), 275
                                                                                                                                                                                                                                       attribute), 250
plugin (indico.modules.events.layout.models.menu.MenuEpotspition (indico.modules.events.surveys.models.items.SurveyText
                                 attribute), 184
                                                                                                                                                                                                                                       attribute), 250
plugin (indico.modules.events.layout.util.MenuEntryDataposition (indico.modules.events.tracks.models.tracks.Track
                                                                                                                                                                                                                                       attribute), 260
                                attribute), 186
plugin (indico.modules.events.logs.renderers.EventLogRepderertBase (indico.modules.events.abstracts.models.abstracts.AbstractRev
```

attribute), 147

attribute), 189

```
positive (indico.modules.events.logs.models.entries.EventLogKinddico.modules.events.fields.ReferencesField
              attribute), 187
                                                                                                     method), 328
possible_render_modes
                                                                             (in- pre validate()
              dico.modules.categories.models.categories.Category
                                                                                                    dico. modules. networks. fields. MultiIPNetwork Field \\
              attribute), 266
                                                                                                     method), 333
possible render modes
                                                                             (in- pre validate()
                                                                                                                                                                    (in-
              dico.modules.events.abstracts.models.abstracts.Abstract
                                                                                                    dico.web.forms.fields.IndicoDateTimeField
                                                                                                     method), 340
              attribute), 146
                                                                             (in- pre_validate()
possible_render_modes
                                                                                                                                                                    (in-
              dico. modules. events. abstracts. models. reviews. AbstractReview ico. web. forms. fields. IndicoPalette Picker Field and the property of th
              attribute), 156
                                                                                                     method), 339
possible_render_modes
                                                                             (in- pre_validate()
              dico.modules.events.contributions.models.contributions.Conditibutions.fields.IndicoSinglePalettePickerField
              attribute), 171
                                                                                                    method), 339
possible_render_modes
                                                                             (in- pre_validate()
                                                                                                                                                                    (in-
              dico.modules.events.contributions.models.subcontributions.SlinbCornb:floutius:fields.MultipleItemsField
              attribute), 178
                                                                                                     method), 343
possible_render_modes
                                                                             (in- pre validate()
                                                                                                                                                                    (in-
              dico.modules.events.models.events.Event
                                                                                                     dico.web.forms.fields.MultiStringField
              attribute), 126
                                                                                                     method), 342
possible_render_modes
                                                                             (in- pre_validate()
                                                                                                                                                                    (in-
              dico.modules.events.papers.models.reviews.PaperReview
                                                                                                    dico.web.forms.fields.OverrideMultipleItemsField
              attribute), 200
                                                                                                     method), 343
possible render modes
                                                                             (in- pre_validate()
                                                                                                                                                                    (in-
              dico.modules.events.papers.models.revisions.PaperRevisiondico.web.forms.fields.RelativeDeltaField
              attribute), 201
                                                                                                    method), 346
possible_render_modes
                                                                             (in- pre_validate()
                                                                                                                                                                    (in-
              dico.modules.events.sessions.models.sessions.Session
                                                                                                     dico.web.forms.fields.TextListField
                                                                                                                                                             method),
              attribute), 241
possible_render_modes
                                                                             (in- pre_validate()
                                                                                                                                                                    (in-
              dico.modules.events.surveys.models.items.SurveyItem
                                                                                                     dico.web.forms.fields.TimeDeltaField method),
              attribute), 248
                                                                             (in- preferences (in module indico.core.signals.users), 90
possible_render_modes
              dico.modules.events.timetable.models.breaks.Breakreload_acl_entries()
                                                                                                     dico.modules.events.contributions.models.contributions.Contribu
              attribute), 254
possible_render_modes
                                                                             (in-
                                                                                                     class method), 171
              dico.modules.events.tracks.models.tracks.Track preload_acl_entries()
                                                                                                                                                                    (in-
              attribute), 260
                                                                                                     dico.modules.events.sessions.models.sessions.Session
pre_validate()
                                                                              (in-
                                                                                                     class method), 241
              dico.modules.events.abstracts.fields.AbstractFieldpreload_all_acl_entries()
                                                                                                                                                                    (in-
                                                                                                     dico.modules.events.models.events.Event
              method), 328
pre_validate()
                                                                             (in-
                                                                                                     method), 126
              dico.modules.events.abstracts.fields.AbstractPersonEnikObstFieldEnt Attached Items
                                                                                                                                                                    (in-
              method), 329
                                                                                                     dico.modules.events.contributions.models.contributions.Contribu
pre_validate()
                                                                             (in-
                                                                                                     attribute), 169
              dico.modules.events.abstracts.fields.EmailRuleListRieItlOAD_EVENT_ATTACHED_ITEMS
                                                                                                                                                                    (in-
                                                                                                     dico.modules.events.contributions.models.subcontributions.SubC
              method), 330
                                                                                                     attribute), 177
pre_validate()
                                                                             (in-
              dico.modules.events.contributions.fields.ContributionsEntFielda*TACHED_ITEMS
                                                                                                     dico.modules.events.sessions.models.sessions.Session
                                                                                                     attribute), 240
pre_validate()
                                                                             (in-
              dico.modules.events.fields.EventPersonLinkListFieldELOAD_EVENT_NOTES
                                                                                                                                                                    (in-
              method), 327
                                                                                                     dico.modules.events.contributions.models.contributions.Contribu
                                                                                                     attribute), 169
pre_validate()
                                                                             (in-
```

```
PRELOAD EVENT NOTES
                                                 (in- principal_for
                                                                                                         (in-
         dico.modules.events.contributions.models.subcontributions.SiubcConordilbusiontegories.models.principals.CategoryPrincipal
         attribute), 177
                                                                attribute), 267
PRELOAD_EVENT_NOTES
                                                 (in- principal_for
                                                                                                         (in-
         dico.modules.events.sessions.models.sessions.Session
                                                                dico.modules.events.contributions.models.principals.Contribution
         attribute), 240
                                                                attribute), 176
Previewer
                      (class
                                                      principal for
                                      in
                                                                                                         (in-
         dico.modules.attachments.preview), 288
                                                                dico.modules.events.models.principals.EventPrincipal
price (indico.modules.events.registration.models.registrations.Registratibute), 131
         attribute), 214
                                                       principal_for
price (indico.modules.events.registration.models.registrations.RegisthiationDdutes.events.sessions.models.principals.SessionPrincipal
         attribute), 216
                                                                attribute), 244
price_adjustment
                                                 (in- principal_for
                                                                                                         (in-
         dico.modules.events.registration.models.registrations.Registrations.dules.events.tracks.models.principals.TrackPrincipal
         attribute), 214
                                                                attribute), 261
primary (indico.modules.events.contributions.models.persons.AuthorIlyperder
                                                                                                         (in-
         attribute), 174
                                                                dico.modules.events.registration.models.forms.RegistrationForm
primary_authors
                                                 (in-
                                                                attribute), 221
         dico.modules.events.models.persons.AuthorsSpeakersiMiximpal_order
                                                                                                         (in-
         attribute), 127
                                                                dico.modules.groups.core.GroupProxy
                                                                                                         at-
primary_email_changed
                                 (in
                                       module
                                                  in-
                                                                tribute), 311
         dico.core.signals.users), 90
                                                       principal order
                                                                                                         (in-
PrimaryAuthorsPlaceholder
                                                                dico.modules.networks.models.networks.IPNetworkGroup
                                     (class in
                                                  in-
         dico.modules.events.abstracts.placeholders),
                                                                attribute), 326
                                                       principal order
                                                                                                         (in-
\verb|principal| (indico.modules.events.models.persons. EventPerson
                                                                dico.modules.users.models.users.User
                                                                                                         at-
         attribute), 129
                                                                tribute), 275
principal_backref_name
                                                 (in- principal_type
                                                                                                         (in-
         dico.modules.attachments.models.principals.AttachmentFoldlico.modules.events.registration.models.forms.RegistrationForm
         attribute), 286
                                                                attribute), 221
principal_backref_name
                                                 (in- principal_type
                                                                                                         (in-
         dico.modules.attachments.models.principals.AttachmentPrindiapanhodules.networks.models.networks.IPNetworkGroup
         attribute), 287
                                                                attribute), 326
principal_backref_name
                                                 (in- principal_type
                                                                                                         (in-
         dico.modules.categories.models.principals.CategoryPrincipdlco.modules.users.models.users.User
                                                                                                         at-
         attribute), 267
                                                                tribute), 275
principal_backref_name
                                                 (in- PrincipalField (class in indico.web.forms.fields),
         dico.modules.events.contributions.models.principals.ContributionPrincipal
         attribute), 176
                                                       PrincipalListField
                                                                                      (class
                                                                                                  in
                                                                                                         in-
principal_backref_name
                                                 (in-
                                                                dico.web.forms.fields), 343
         dico.modules.events.models.principals.EventPrincipalInt badge template
                                                                                              module
                                                                                       (in
                                                                                                         in-
         attribute), 131
                                                                dico.core.signals.event), 86
                                                 (in- private (indico.modules.events.surveys.models.surveys.Survey
principal_backref_name
         dico.modules.events.models.settings.EventSettingPrincipal attribute), 247
                                                       process (in module indico.core.signals.rh), 90
         attribute), 136
principal_backref_name
                                                 (in- process_args (in module indico.core.signals.rh), 90
         dico.modules.events.sessions.models.principals.SessionsPrincipalta()
         attribute), 244
                                                                dico.modules.categories.fields.CategoryField
principal_backref_name
                                                 (in-
                                                                method), 333
         dico.modules.events.tracks.models.principals.TrackPrincipal_data()
         attribute), 261
                                                                dico.modules.networks.fields.MultiIPNetworkField
                                                                method), 333
principal backref name
                                                 (in-
         dico.modules.rb.models.blocking_principals.Blocking_Principalata()
                                                                                                         (in-
         attribute), 295
                                                                dico.web.forms.fields.IndicoEmailRecipientsField
```

method), 348	method), 346
	process_formdata() (in-
dico. web. forms. fields. IndicoPalette Picker Field	dico. web. forms. fields. Indico Single Palette Picker Field
method), 339	method), 339
=	process_formdata() (in-
dico.web.forms.fields.IndicoStaticTextField method), 338	dico.web.forms.fields.IndicoWeekDayRepetitionField method), 347
	process_formdata() (in-
dico.web.forms.fields.IndicoTimezoneSelectFielmethod), 341	d dico.web.forms.fields.JSONField method), 335
	process_formdata() (in-
dico.modules.users.ext.ExtraUserPreferences method), 281	dico.web.forms.fields.MultipleItemsField method), 343
process_formdata() (in-	process_formdata() (in-
dico.modules.categories.fields.CategoryField method), 333	dico.web.forms.fields.MultiStringField method), 342
process_formdata() (in-	process_formdata() (in-
dico.modules.events.fields.EventPersonListField method), 327	dico.web.forms.fields.OccurrencesField method), 341
process_formdata() (in-	process_formdata() (in-
dico.modules.events.fields.ReferencesField method), 328	dico.web.forms.fields.OverrideMultipleItemsField method), 343
	process_formdata() (in-
dico.modules.events.papers.fields.PaperEmailSomethod), 333	ettingsField dico.web.forms.fields.PrincipalField method), 344
	process_formdata() (in-
dico.modules.networks.fields.MultiIPNetworkFi method), 334	eld dico.web.forms.fields.PrincipalListField method), 344
process_formdata() (in- dico.web.forms.fields.EditableFileField method), 345	process_formdata() (in- dico.web.forms.fields.RelativeDeltaField method), 346
	process_formdata() (in-
dico.web.forms.fields.EmailListField method), 338	dico.web.forms.fields.TextListField method), 337
process_formdata() (in-	process_formdata() (in-
dico.web.forms.fields.FileField method), 342	dico.web.forms.fields.TimeDeltaField method), 340
	processed_by_id (in-
dico.web.forms.fields.HiddenEnumField method), 341	dico.modules.events.requests.models.requests.Request attribute), 237
<pre>process_formdata() (in-</pre>	processed_by_user (in-
dico.web.forms.fields.HiddenFieldList method), 336	dico.modules.events.requests.models.requests.Request attribute), 237
process_formdata() (in-	<pre>processed_dt (indico.modules.events.requests.models.requests.Reque</pre>
dico.web.forms.fields.IndicoDateTimeField	attribute), 237
method), 340	prof (indico.modules.users.models.users.UserTitle at-
process_formdata() (in-	tribute), 276
dico.web.forms.fields.IndicoLocationField method), 345	PROFILE (built-in variable), 52 ProfilePictureSource (class in in-
process_formdata() (in-	dico.modules.users.models.users), 272
dico.web.forms.fields.IndicoPalettePickerField method), 339	
	proposal_attr (in-
	khoxBoolean <b>tiisela</b> nodules events models reviews ProposalRevisionMixin

```
attribute), 135
                                                                attribute), 266
                                                 (in- protection_mode
                                                                                                        (in-
proposal_attr
        dico.modules.events.papers.models.revisions.PaperRevisiondico.modules.events.contributions.models.contributions.Contribu
        attribute), 201
                                                                attribute), 172
proposal_type
                                                 (in- protection_mode
                                                                                                        (in-
        dico.modules.events.abstracts.models.abstracts.Abstract
                                                               dico.modules.events.models.events.Event
        attribute), 146
                                                                attribute), 126
proposal_type
                                                 (in- protection mode
                                                                                                        (in-
                                                                dico. modules. events. sessions. models. sessions. Session\\
         dico.modules.events.models.reviews.ProposalMixin
                                                                attribute), 241
        attribute), 134
proposal_type
                                                 (in- protection_mode
                                                                                                        (in-
        dico.modules.events.papers.models.papers.Paper
                                                                dico.modules.events.tracks.models.tracks.Track
        attribute), 197
                                                                attribute), 260
ProposalCommentMixin
                                                      protection_mode
                                (class
                                           in
                                                                                                        (in-
         dico.modules.events.models.reviews), 133
                                                                dico.modules.rb.models.rooms.Room attribute),
ProposalGroupProxy
                              (class
                                          in
                                                  in-
                                                                292
         dico.modules.events.models.reviews), 133
                                                      protection_parent
                                                                                                        (in-
ProposalMixin
                          (class
                                                                dico.modules.attachments.models.attachments.Attachment
                                                 in-
        dico.modules.events.models.reviews), 133
                                                                attribute), 282
ProposalReviewMixin
                               (class
                                                 in-
                                                      protection parent
                                                                                                        (in-
                                                                dico. modules. attachments. models. folders. Attachment Folder\\
        dico.modules.events.models.reviews), 134
ProposalRevisionMixin
                                 (class
                                                                attribute), 285
                                                 in-
         dico.modules.events.models.reviews), 134
                                                      protection_parent
                                                                                                        (in-
proposed_action
                                                                dico.modules.categories.models.categories.Category
                                                 (in-
         dico.modules.events.abstracts.models.reviews.AbstractReviewtribute), 266
        attribute), 156
                                                      protection parent
proposed_action
                                                 (in-
                                                                dico.modules.events.contributions.models.contributions.Contribu
        dico. modules. events. papers. models. reviews. Paper Review \\
                                                               attribute), 172
        attribute), 200
                                                      protection_parent
                                                                                                        (in-
                                                                dico.modules.events.models.events.Event
proposed_contribution_type
                                                 (in-
        dico.modules.events.abstracts.models.reviews.AbstractReviewttribute), 126
        attribute), 156
                                                      protection_parent
                                                                                                        (in-
                                                                dico.modules.events.sessions.models.sessions.Session
proposed_contribution_type_id
                                                 (in-
        dico.modules.events.abstracts.models.reviews.AbstractRevieattribute), 241
        attribute), 156
                                                      protection_parent
proposed_related_abstract
                                                 (in-
                                                                dico.modules.rb.models.rooms.Room attribute),
        dico.modules.events.abstracts.models.reviews.AbstractReview92
        attribute), 156
                                                      provider (indico.modules.auth.models.identities.Identity
proposed_related_abstract_id
                                                 (in-
                                                                attribute), 302
        dico.modules.events.abstracts.models.reviews.AbstractRiview (indico.modules.events.payment.models.transactions.PaymentT
        attribute), 156
                                                               attribute), 207
proposed_tracks
                                                 (in- PROVIDER_MAP (built-in variable), 48
        dico.modules.events.abstracts.models.reviews.AbstractReview_attr (indico.modules.events.papers.models.papers.Paper
        attribute), 156
                                                                attribute), 197
                                     module
                                                     proxy (indico.modules.groups.models.groups.LocalGroup
protection_changed
                             (in
         dico.core.signals.acl), 81
                                                                attribute), 310
protection_mode
                                                 (in- proxy_to_reservation_if_last_valid_occurrence()
        dico.modules.attachments.models.attachments.Attachment (in module indico.modules.rb.models.util), 301
        attribute), 282
                                                      public (indico.modules.events.contributions.models.fields.ContributionFi
                                                 (in-
protection_mode
                                                                attribute), 174
        dico.modules.attachments.models.folders.AttachmentBalider_regform_access
                                                                                                        (in-
                                                                dico.modules.events.models.events.Event
        attribute), 285
protection_mode
                                                 (in-
                                                                attribute), 126
```

 $dico.modules.categories.models.categories.Category \verb|blic_state| (indico.modules.events.abstracts.models.abstracts.Abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts$ 

```
attribute), 146
                                                                                                                                                                                                                                                                      rating_range(indico.modules.events.abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts.models.call_for_abstracts
PUBLIC_SUPPORT_EMAIL (built-in variable), 53
                                                                                                                                                                                                                                                                                                                  attribute), 148
publish_checkin_enabled
                                                                                                                                                                                                                                           (in- rating_range (indico.modules.events.papers.models.call_for_papers.C
                                            dico.modules.events.registration.models.forms.RegistrationFattnibute), 193
                                          attribute), 221
                                                                                                                                                                                                                                                                     RatingReviewField
                                                                                                                                                                                                                                                                                                                                                                                                                    (class
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     in-
publish_registration_count
                                                                                                                                                                                                                                                                                                                  dico.modules.events.fields), 328
                                                                                                                                                                                                                                           (in-
                                          dico.modules.events.registration.models.forms.RegistrationsEurnaser_access()
                                                                                                                                                                                                                                                                                                                                                                                                                                       (in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   module
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     in-
                                                                                                                                                                                                                                                                                                                  dico.modules.rb.util), 301
                                                                                                                                                                                                                                           (in- rb_is_admin() (in module indico.modules.rb.util),
publish_registrations_enabled
                                          dico.modules.events.registration.models.forms.RegistrationForm
                                           attribute), 221
                                                                                                                                                                                                                                                                      read_access (indico.modules.categories.models.principals.CategoryPri
published_registrations
                                                                                                                                                                                                                                                                                                                  attribute), 267
                                                                                                                                                                                                                                           (in-
                                          dico.modules.events.models.events.Event
                                                                                                                                                                                                                                                                      read_access (indico.modules.events.contributions.models.principals.Co
                                          attribute), 126
                                                                                                                                                                                                                                                                                                                  attribute), 176
                                                                                                                                                                                                                                                                      \verb|read_access| (indico.modules.events.models.principals.EventPrincipal
Q
                                                                                                                                                                                                                                                                                                                  attribute), 131
\verb"query" (indico.modules.categories.settings. Category Settings \textit{Prody-} \texttt{access} (indico.modules.events.sessions.models.principals.Sessions. access (indico.modules.events.sessions.models.principals.Sessions.models.principals.Sessions.models.principals.Sessions.models.principals.Sessions.models.principals.Sessions.models.principals.Sessions.models.principals.Sessions.models.principals.Sessions.models.principals.Sessions.models.principals.Sessions.models.principals.Sessions.models.principals.Sessions.models.principals.Sessions.models.principals.Sessions.models.principals.Sessions.models.principals.Sessions.models.principals.Sessions.models.principals.Sessions.models.principals.Sessions.models.principals.Sessions.models.principals.Sessions.models.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.principals.Sessions.princip
                                                                                                                                                                                                                                                                                                                  attribute), 244
                                            attribute), 270
\verb"query" (indico.modules.events.settings.EventSettingsProxy "read\_access" (indico.modules.events.tracks.models.principals.TrackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.trackPrincipals.tr
                                                                                                                                                                                                                                                                                                                  attribute), 261
                                           attribute), 143, 206
query (indico.modules.users.models.settings.UserSettingsPipedy_to_open
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (in-
                                                                                                                                                                                                                                                                                                                  dico.modules.events.surveys.models.surveys.SurveyState
                                            attribute), 278
                                                                                                                                                                                                                                                                                                                  attribute), 247
query_active_surveys()
                                                                                                                                                                 (in
                                                                                                                                                                                              module
                                                                                                                                                                                                                                               in-
                                                                                                                                                                                                                                                                      real_visibility_horizon
                                           dico.modules.events.surveys.util), 252
                                                                                                                                                                                                                                                                                                                  dico.modules.categories.models.categories.Category
query_personal_tokens()
                                                                                                                                                                                                                                           (in-
                                                                                                                                                                                                                                                                                                                  attribute), 266
                                          dico. modules. users. models. users. User \\
                                                                                                                                                                                                                                                                       realm(indico.modules.events.logs.models.entries.EventLogEntry)
                                          method), 275
question (indico.modules.events.abstracts.models.review_ratings.AbstractReviewRating
                                                                                                                                                                                                                                                                      reason (indico.modules.events.agreements.models.agreements.Agreement
                                            attribute), 154
question (indico.modules.events.papers.models.review_ratings.PaperRieWewRlang)
                                                                                                                                                                                                                                                                       reason (indico.modules.rb.models.blockings.Blocking
                                            attribute), 198
question (indico.modules.events.surveys.models.items.SurveyItemT\ftetibute), 294
                                                                                                                                                                                                                                                                      recipients (indico.modules.events.abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.Abstracts.models.email_logs.abstracts.models.email_logs.abstracts.models.email_logs.abstracts.models.email_logs.abstracts.models.email_logs.abstracts.models.email_logs.abstracts.models.email_logs.abstracts.models.email_l
                                            attribute), 248
question (indico.modules.events.surveys.models.submissions.SurveyAribwte), 150
                                                                                                                                                                                                                                                                      recipients (indico.modules.events.reminders.models.reminders.EventR
                                          attribute), 251
                                                                                                                                                                                                                                                                                                                  attribute), 235
question_class
                                                                                                                                                                                                                                           (in-
                                                                                                                                                                                                                                                                                                                                                                                                                                                             module
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     in-
                                           dico.modules.events.abstracts.models.review_ratings!AbstractReviewPating()
                                                                                                                                                                                                                                                                                                                  dico.modules.auth.util), 304
                                          attribute), 154
                                                                                                                                                                                                                                                               redirect_uri(indico.core.oauth.models.tokens.OAuth2AuthorizationCo
question_class
                                           dico.modules.events.papers.models.review_ratings.PaperReviewhth
                                                                                                                                                                                                                                                                       redirect uris
question_id(indico.modules.events.abstracts.models.review_ratingis.Abstractsion_id(indico.modules.events.abstracts.models.review_ratingis.Abstractsion_id(indico.modules.events.abstracts.models.review_ratingis.Abstractsion_id(indico.modules.events.abstracts.models.review_ratingis.Abstractsion.id(indico.modules.events.abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.models.review_ratingis.Abstracts.mo
                                                                                                                                                                                                                                                                                                                  attribute), 307
                                           attribute), 154
question_id(indico.modules.events.papers.models.reviewEPatings:PaperReviewMillinin variable), 49
                                                                                                                                                                                                                                                                      reference_backref_name
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (in-
                                            attribute), 198
\verb"question_id" (indico.modules.events.surveys.models.submissions. \textit{Sdiffe-produles}.events.contributions.models.references. Contributions. States and the contribution of the contribut
                                                                                                                                                                                                                                                                                                                  attribute), 177
                                            attribute), 251
questions (indico.modules.events.surveys.models.surveys.Sufree)ence_backref_name
                                                                                                                                                                                                                                                                                                                  dico. modules. events. contributions. models. references. Sub Contributions and the substitution of the 
                                           attribute), 247
                                                                                                                                                                                                                                                                                                                  attribute), 177
R
                                                                                                                                                                                                                                                                      reference_backref_name
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (in-
                                                                                                                                                                                                                                                                                                                  dico.modules.events.models.references.EventReference
\verb"radio_widget" (indico.web. forms. fields. Indico Protection Field
                                                                                                                                                                                                                                                                                                                  attribute), 131
                                           attribute), 345
                                                                                                                                                                                                                                                                       reference backref name
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (in-
```

```
dico.modules.events.models.references.ReferenceModelBasedico.modules.events.util), 141
        attribute), 132
                                                       register_transaction()
                                                                                              module
                                                                                                         in-
reference type
                                                                dico.modules.events.payment.util), 208
         dico.modules.events.contributions.models.references.ContributionsReference
                                                                                  (in
                                                                                           module
                                                                                                         in-
         attribute), 177
                                                                dico.modules.auth.util), 304
                                                 (in- registered (in module indico.core.signals.users), 90
reference_type
        dico.modules.events.contributions.models.reference Sub Contribution Reference
                                                                dico.modules.events.layout.models.menu.MenuEntry
         attribute), 177
reference_type
                                                 (in-
                                                                attribute), 184
        \it dico.modules.events.models.references.EventReferences is terLinkPlaceholder
                                                                                          (class
                                                                                                         in-
         attribute), 131
                                                                dico.modules.events.persons.placeholders),
reference_type
                                                 (in-
                                                                212
        dico.modules.events.models.references.ReferenceMedelBaseation
                                                                                (class
                                                                                              in
                                                                                                         in-
        attribute), 132
                                                                dico.modules.events.registration.models.registrations),
reference_type_id
                                                 (in-
                                                                212
        dico.modules.events.contributions.models.references.ContributionRefindince.modules.events.payment.models.transactions.Pay
        attribute), 177
                                                                attribute), 207
reference_type_id
                                                 (in-registration (indico.modules.events.registration.models.invitations.Re
        dico.modules.events.contributions.models.references.SubContribution,Reference
                                                       registration_checkin_updated (in module in-
         attribute), 177
reference_type_id
                                                 (in-
                                                                dico.core.signals.event), 86
        dico.modules.events.models.references.EventReferenceistration_created
                                                                                             module
        attribute), 131
                                                                dico.core.signals.event), 86
                                                 (in- registration_deleted
                                                                                             module
reference_type_id
                                                                                                         in-
         dico.modules.events.models.references.ReferenceModelBasadico.core.signals.event), 86
        attribute), 132
                                                       registration form
                                                                                                        (in-
ReferenceModelBase
                              (class
                                                  in-
                                                                dico.modules.attachments.models.principals.AttachmentFolderPr
        dico.modules.events.models.references),
                                                                attribute), 286
                                                       registration_form
                                                                                                        (in-
references (indico.modules.events.contributions.models.contributidias.Gontulbationachments.models.principals.AttachmentPrincipals
         attribute), 172
                                                                attribute), 287
references (indico.modules.events.contributions.models.subcontributions.Subcontribution
                                                                                                        (in-
                                                                dico.modules.categories.models.principals.CategoryPrincipal
         attribute), 178
references (indico.modules.events.models.events.Event
                                                                attribute), 267
                                                       registration form
         attribute), 126
ReferencesField
                            (class
                                        in
                                                                dico.modules.events.contributions.models.principals.Contribution
                                                  in-
        dico.modules.events.fields), 328
                                                                attribute), 176
ReferenceType
                          (class
                                                      registration_form
                                                  in-
         dico.modules.events.models.references),
                                                                dico.modules.events.models.principals.EventPrincipal
         132
                                                                attribute), 131
refresh_event_persons()
                                                      registration form
                                                 (in-
                                                                                                        (in-
        dico.modules.events.models.events.Event
                                                                dico.modules.events.models.settings.EventSettingPrincipal
                                                                attribute), 136
        method), 126
register_event_time_change() (in module in-
                                                      registration_form
                                                                                                        (in-
         dico.modules.events.util), 140
                                                                dico. modules. events. sessions. models. principals. Session Principal\\
                                                                attribute), 244
register_link_events()
                                                 (in-
        dico.modules.vc.models.vc_rooms.VCRoomEventAssociationation_form
        class method), 313
                                                                dico.modules.events.tracks.models.principals.TrackPrincipal
register_location_change() (in module in-
                                                                attribute), 261
         dico.modules.events.util), 140
                                                       registration_form
register_login()
                                                                dico.modules.rb.models.blocking\_principals.BlockingPrincipal
                                                 (in-
        dico.modules.auth.models.identities.Identity
                                                                attribute), 295
        method), 303
                                                       registration_form_created (in module in-
                                                                dico.core.signals.event), 86
register_time_change()
                                       module
                                                  in-
```

```
registration_form_deleted (in module in-
                                                              attribute), 295
         dico.core.signals.event), 86
                                                     registration_form_wtform_created (in mod-
registration_form_edited
                                       module
                                                in-
                                                              ule indico.core.signals.event), 86
                                                     registration id
        dico.core.signals.event), 86
                                                                                                      (in-
registration_form_id
                                                (in-
                                                              dico.modules.events.payment.models.transactions.PaymentTransa
        dico.modules.attachments.models.principals.AttachmentFoldenRbitte\)paD7
        attribute), 286
                                                     registration id
registration form id
                                                              dico.modules.events.registration.models.invitations.RegistrationIr
                                                (in-
        dico.modules.attachments.models.principals.AttachmentPrinatipiablute), 222
        attribute), 287
                                                     registration_id
                                                                                                      (in-
registration_form_id
                                                (in-
                                                              dico.modules.events.registration.models.registrations.Registration
        dico.modules.categories.models.principals.CategoryPrincipaltribute), 216
        attribute), 267
                                                     registration_limit
                                                                                                      (in-
registration_form_id
                                                (in-
                                                              dico.modules.events.registration.models.forms.RegistrationForm
        dico.modules.events.contributions.models.principals.ContributionReinalipal
        attribute), 176
                                                     registration_personal_data_modified (in
registration_form_id
                                                (in-
                                                              module indico.core.signals.event), 86
        dico.modules.events.models.principals.EventPrincipadistration_requested
                                                                                                      in-
        attribute), 131
                                                              dico.core.signals.users), 90
                                                (in- registration state updated (in module in-
registration_form_id
        dico.modules.events.models.settings.EventSettingPrincipal dico.core.signals.event), 86
        attribute), 136
                                                     registration_updated
                                                                                           module
registration_form_id
                                                (in-
                                                              dico.core.signals.event), 86
        dico.modules.events.registration.models.form_fields=Registration.EorTatField:ssPlaceholder (class in in-
        attribute), 217
                                                              dico.modules.designer.placeholders), 323
registration_form_id
                                                (in- RegistrationAffiliationPlaceholder (class
        dico.modules.events.registration.models.form_fields.Registrationdicomforts.das.hDesignFaceholders), 323
        attribute), 219
                                                     RegistrationAmountPlaceholder (class in in-
                                                              dico.modules.designer.placeholders), 322
registration_form_id
                                                (in-
        dico.modules.events.registration.models.invitation.Registrationiloxilation.tryPlaceholder (class in in-
        attribute), 222
                                                              dico.modules.designer.placeholders), 323
registration_form_id
                                                (in- RegistrationData
                                                                                  (class
                                                                                              in
                                                                                                      in-
        dico.modules.events.registration.models.items.RegistrationFdiroltmodules.events.registration.models.registrations),
        attribute), 224
                                                              215
                                                (in- RegistrationEmailPlaceholder (class in in-
registration_form_id
        dico.modules.events.registration.models.items.RegistrationFdianParxdulasDlassisaeriphaceholders), 322
        attribute), 225
                                                     RegistrationFirstNamePlaceholder (class in
registration_form_id
                                                (in-
                                                              indico.modules.designer.placeholders), 321
        dico.modules.events.registration.models.items.RegistrationEcriniSectionEm
                                                                                  (class
        attribute), 226
                                                              dico.modules.events.registration.models.forms),
registration_form_id
                                                (in-
        dico.modules.events.registration.models.items.RegistrationEcrtniTextFormField
                                                                                      (class
        attribute), 226
                                                              dico.modules.events.registration.models.form fields),
registration_form_id
                                                (in-
        dico.modules.events.registration.models.registrationnFormFieldData (class in in-
                                                              dico.modules.events.registration.models.form_fields),
        attribute), 214
registration_form_id
                                                (in-
                                                              218
        dico.modules.events.sessions.models.principals.SeRsigniPrincipalonFormItem
                                                                                     (class
                                                                                               in
                                                                                                      in-
        attribute), 244
                                                              dico.modules.events.registration.models.items),
registration_form_id
                                                (in-
        dico.modules.events.tracks.models.principals.TrackPrjincipalationFormItemType
                                                                                         (class
        attribute), 261
                                                              dico.modules.events.registration.models.items),
registration_form_id
                                                (in-
        dico.modules.rb.models.blocking principals.BlockingPrincipalionFormPersonalDataField
```

	(class	in		in-	147	232	( 1		
	dico.modules.events.	registration.mo	odels.forn	n_fiel	<b>@%</b> ,gist		(class	in	in-
	218	_				dico.modules.event.	s.registration.i	models.re	gistrations),
Regist	rationFormPerso					216			
	(class	in			Regist	rationTicketQF			
	dico.modules.events.	registration.mo	odels.item			indico.modules.des			
	224				Regist	rationTitlePla			ı in-
Regist	rationFormSect			in-		dico.modules.desig			
	<i>dico.modules.events.</i> 225	registration.mo	odels.item	ıs),	reject	(indico.modules.eve attribute), 154	nts.abstracts.i	nodels.re	views.AbstractAction
Regist	rationFormText	(class			reject	(indico.modules.eve	nts.papers.mo	dels.revie	ews.PaperAction
	dico.modules.events.	registration.mo	odels.item			attribute), 198			
	226				reject		nts.payment.n	nodels.tra	insactions.TransactionA
Regist	rationFriendly					attribute), 208			
	in indico.modules.de				reject		events.agreem	ents.mod	els.agreements.Agreem
Regist	rationFullName	NoTitlePlac	ceholde			method), 167			
	(class	in		in-	reject		events.request	s.base.Re	equestDefinitionBase
	dico.modules.design					class method), 239			
Regist	rationFullName	NoTitlePla	ceholde	erB	reject		rb.models.blo	cked_rooi	ns.BlockedRoom
	(class	in		in-		method), 294			
	dico.modules.design	er.placeholders	s), 320		reject	() (indico.modules	rb.models.rese	ervation_	occurrences.Reservatio
Regist	rationFullName	NoTitlePlac	ceholde	erC		method), 300			
	(class	in		in-	reject	() (indico.modules	rb.models.rese	ervations.	Reservation
	dico.modules.design	er.placeholders	s), 321			method), 298			
Regist	rationFullName	NoTitlePlac	ceholde	erD	reject	ed (indico.modules.	events.abstrac	ts.models	s.abstracts.AbstractPub
	(class	in		in-		attribute), 147			
	dico.modules.design	er.placeholders	s), 321		reject	ed (indico.modules.	events.abstrac	ts.models	s.abstracts.AbstractStat
Regist	rationFullName	Placeholde	r (class	in		attribute), 148			
	indico.modules.desig	gner.placeholde	ers), 319		reject	ed (indico.modules.	events.agreem	ents.mod	lels.agreements.Agreem
Regist	rationFullName	Placeholde	rB (class			attribute), 167			
	indico.modules.desig				reject	ed (indico.modules.	events.agreem	ents.mod	lels.agreements.Agreem
Regist	rationFullName	Placeholde	rc (class	in		attribute), 167			
	indico.modules.desig	gner.placeholde	ers), 320		reject	ed (indico.modules.	events.papers.	models.re	evisions.PaperRevision
Regist	rationFullName	Placeholde	rD (class			attribute), 202			
	indico.modules.desig				reject	ed (indico.modules.	events.paymer	ıt.models.	.transactions.Transacti
Regist	rationInvitation			in-	_	attribute), 208	1 ,		
			odels.invii	tatior	nr)eject	ed (indico.modules.	events.registra	ition.mod	lels.registrations.Regist
	221					attribute), 217	-		
Regist	rationLastName	Placeholde	r (class	in	reject	ed (indico.modules.	events.request	s.models.	requests.RequestState
_	indico.modules.desig				_	attribute), 237	•		
Regist	rationPhonePlac			in-	reject	ed (indico.modules.	rb.models.blo	cked_rooi	ms.BlockedRoomState
2	dico.modules.design				2	attribute), 294			
Regist		*	* *	in	reject		rb.models.rese	ervation	occurrences.Reservatio
- 5	indico.modules.desig				- 5	attribute), 301		_	
Regist.	rationPricePlac			in-	reject.	ed (indico.modules.	rb.models.rese	ervations.	ReservationState
5	dico.modules.design				)	attribute), 299			
Regist	rationRequest	(class		in-	reject		ules.rb.models	blocked	_rooms.BlockedRoom
1109100	dico.modules.auth.m	`			10,000	attribute), 294	ares.ro.modeets	oroeneu_	_rooms.Brockeditoom
	303		.c.neque		reject	ed_on_behalf			(in-
reais+	rations		(	in-			s agreements i	nodels a	greements.AgreementSt
109100	dico.modules.events.	registration ma	,	•	gistration		s.agreemems.r	noucis.uz	, reaments a 18 reements i
	attribute), 221		. ac is goin		-	ion_reason			(in-
Regist	rationSettings	Proxy (clas	s in	in-			s.registration	models re	egistrations.Registration
	dico.modules.events.					attribute), 214	-0		G
			0 //			//			

rejection_reason

rejection_reason

rejection_reason

231

RelativeDeltaField

remove_principal()

attribute), 294

attribute), 300

attribute), 298

dico.web.forms.fields), 346

ule indico.modules.rb.util), 301

method), 142, 205

render () (indico.modules.designer.placeholders.CategoryFithePlaceholdico.modules.events.abstracts.placeholders.SubmitterNa	amel
class method), 324 class method), 161	
render() (indico.modules.designer.placeholders.EventDatæsRåæeholderdico.modules.events.abstracts.placeholders.SubmitterTit	tlePl
class method), 319 class method), 162	
render () (indico.modules.designer.placeholders.EventDexcriptionPlaciellibleemodules.events.abstracts.placeholders.TargetAbstra	actII
class method), 319 class method), 162	
render () (indico.modules.designer.placeholders.EventLog@Placeholdeindico.modules.events.abstracts.placeholders.TargetAbstra	actTi
class method), 325 class method), 163	
render() (indico.modules.designer.placeholders.EventOrgExxtPlace)h(indico.modules.events.abstracts.placeholders.TargetSubmi	itter
class method), 320 class method), 163	
render() (indico.modules.designer.placeholders.EventRoomRäweholdindico.modules.events.abstracts.placeholders.TargetSubmi	itter
class method), 324 class method), 163	
render() (indico.modules.designer.placeholders.EventSpædents#Placekinldero.modules.events.abstracts.placeholders.TargetSubmi	itter
class method), 324 class method), 163	
render () (indico.modules.designer.placeholders.EventTitlePlaceholdidindico.modules.events.agreements.models.agreements.Agr	reem
class method), 323 method), 167	
$\verb render()  (indico.modules.designer.placeholders. Event Vermer River high dim dico.modules. events. agreements. placeholders. Agreement die vermente die verme$	ıtLin
class method), 324 class method), 168	
$\verb render()  (indico.modules.designer.placeholders.Registration Almount Rindeholders.events.agreements.placeholders.Person National Rindeholders.events.agreements.placeholders.events.agreements.placeholders.events.agreements.placeholders.events.agreements.placeholders.events.agreements.placeholders.events.agreements.placeholders.events.agreements.placeholders.events.agreements.placeholders.events.agreements.events.agreements.events.agreements.events.agreements.events.agreements.events.agreements.events.agreements.events.agreements.events.agreements.events.agreements.events.agreements.events.agreements.events.agreements.events.agreements.events.agreements.events.agreements.events.agreements.events.agreements.events.agreements.events.agreements.events.agreements.events.agreements.events.agreements.events.agreements.events.agreements.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.events.event$	meP
class method), 322 class method), 168	
render () (indico.modules.designer.placeholders.RegistrationPricePlatibledemodules.events.logs.models.entries.EventLogEntry	
class method), 322 method), 187	
$\verb render()  (indico.modules.designer.placeholders.Registration Ticket QRPh diwholden les.events.persons.placeholders.Contributions)   Contribution to the contribution of the contributi$	sPlac
class method), 322 class method), 210	
$\verb render()  (indico.modules.events.abstracts.placeholders.AbstractEQP  (incholden odules.events.persons.placeholders.Email Placeholders.AbstractEQP  (incholden odules.events.persons.placeholders.Email Placeholders.Email Placeholders.AbstractEQP  (incholden odules.events.persons.placeholders.Email Placeholders.Email Placeholders.Emai$	oldei
class method), 159 class method), 210	
render () (indico.modules.events.abstracts.placeholders.AbstracthwiththiahEiRhPdalesholdens.persons.placeholders.EventLinkPla	ıceho
class method), 160 class method), 211	
$\verb render()  (indico.modules.events.abstracts.placeholders.AbstractSos)  (in \textit{Ricasholddes}.events.persons.placeholders.EventTitlePlaceholders.abstracts.placeholders.EventTitlePlaceholders.EventTitlePlaceholders.events.persons.placeholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitle$	ıceho
class method), 161 class method), 211	
$\verb render()  (indico.modules.events.abstracts.placeholders. \textit{Abstract} Fit le \textit{Piladial condition} due to leave the fitting of the property of the property$	асећ
class method), 160 class method), 211	
$\verb render()  (indico.modules.events.abstracts.placeholders.AbstractTrackFildiachndelules.events.persons.placeholders.LastNamePlaceholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholders.abstracts.placeholder$	ıceho
class method), 160 class method), 211	

(in-

(in-

in-

(in-

dico.modules.rb.models.reservation_occurrences.Reservationl@xxxuvxthrede), 164

dico.modules.events.registration.placeholders.registrations)class method), 159

in

(class

dico.modules.events.settings.EventACLProxy

class method), 160

class method), 161

class method), 164

class method), 159

class method), 164

class method), 161

class method), 162

class method), 162

(in- render () (indico.modules.events.abstracts.placeholders.ContributionTyp

render() (indico.modules.events.abstracts.placeholders.ContributionUR

render() (indico.modules.events.abstracts.placeholders.JudgmentComm

render() (indico.modules.events.abstracts.placeholders.PrimaryAuthors

render() (indico.modules.events.abstracts.placeholders.SubmitterFirstN

 $dico.modules.rb.models.blocked_rooms.BlockedRacemder() (indico.modules.events.abstracts.placeholders.CoAuthorsPlaceder())$ 

dico.modules.rb.models.reservations.Reservation render() (indico.modules.events.abstracts.placeholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitlePlaceholders.EventTitleP

RejectionReasonPlaceholder (class in in- render() (indico.modules.events.abstracts.placeholders.EventURLPlace

remove_room_spritesheet_photo() (in mod- render() (indico.modules.events.abstracts.placeholders.SubmitterLastNo

460 Index

render() (indico.modules.events.abstracts.placeholders.Abstractt/RLflhdiebahhdrules.events.persons.placeholders.RegisterLinkPlace

```
class method), 212
                                                                                                                                  dico.modules.vc.plugins.VCPluginMixin
render () (indico.modules.events.registration.placeholders.invitationseffiost)\@ntilePlaceholder
                                                                                                               render_manage_event_info_box()
                  class method), 231
                                                                                                                                                                                                                    (in-
render() (indico.modules.events.registration.placeholders.invitatiodichwitadidaLinkPllagidsoVAPluginMixin
                  class method), 232
                                                                                                                                  method), 316
render () (indico.modules.events.registration.placeholderx.environs.dats(Vinahee).lmoelubed.enategories.models.categories.Category
                                                                                                                                  attribute), 266
                  class method), 232
render () (indico.modules.events.registration.placeholders.eagdsenationsdEventlichkAlahdkolekents.abstracts.models.abstracts.Abstrac
                  class method), 229
                                                                                                                                  attribute), 146
render() (indico.modules.events.registration.placeholders.eagdsenutionsdEventlicheRlahdkolekents.abstracts.models.comments.Abstrac
                  class method), 229
                                                                                                                                  attribute), 149
render () (indico.modules.events.registration.placeholders.events.abstracts.models.reviews.Abstracts
                  class method), 230
                                                                                                                                  attribute), 156
render () (indico.modules.events.registration.placeholders.eagistration.sdEi(istNiconalbdaleholders.contributions.models.contributions
                                                                                                                                  attribute), 172
                  class method), 230
render() (indico.modules.events.registration.placeholders.eagdsenutionsdH)Phdiacholdenles.events.contributions.models.subcontributi
                  class method), 230
                                                                                                                                  attribute), 178
render () (indico.modules.events.registration.placeholderx.exgistration.sl&dstNiumeRbahdkolekents.models.events.Event
                  class method), 231
                                                                                                                                  attribute), 126
render () (indico.modules.events.registration.placeholders.eagdsetration.sl&ifibAliaoeholdeles.events.notes.models.notes.EventNoteRevis
                  class method), 231
                                                                                                                                  attribute), 192
render() (indico.modules.events.registration.placeholders.eagdsenation.cd.Rejeation.ReacholeRelevents| levents| levents|
                  class method), 231
                                                                                                                                  attribute), 194
render archive()
                                                                                                             render mode (indico.modules.events.papers.models.reviews.PaperReviews.
                                                         (in
                                                                           module
                                                                                                     in-
                  dico.modules.events.contributions.util), 181
                                                                                                                                  attribute), 200
render_base_price()
                                                                                                    (in- render_mode (indico.modules.events.papers.models.revisions.PaperRevi
                  dico.modules.events.registration.models.forms.RegistrationFattnibute), 201
                  method), 221
                                                                                                                \verb"render_mode" (indico.modules.events.sessions.models.sessions. Session
                                                                                                                                  attribute), 241
render_base_price()
                                                                                                    (in-
                  dico.modules.events.registration.models.registrationes:Registrationes (indico.modules.events.surveys.models.items.SurveyItem
                  method), 214
                                                                                                                                  attribute), 248
render_buttons()
                                                                                                               \verb"render_mode" (indico.modules.events.surveys.models.items. Survey Question and the control of the control of
                  dico.modules.vc.plugins.VCPluginMixin
                                                                                                                                  attribute), 249
                  method), 315
                                                                                                                render_mode (indico.modules.events.surveys.models.items.SurveySection
render_changes()
                                                                           module
                                                                                                     in-
                                                                                                                                  attribute), 250
                                                         (in
                  dico.modules.events.logs.util), 188
                                                                                                                render_mode (indico.modules.events.surveys.models.items.SurveyText
render details()
                                                                                                    (in-
                                                                                                                                  attribute), 250
                  dico.modules.events.payment.models.transactions.PaywentTransactiondico.modules.events.timetable.models.breaks.Break
                  method), 207
                                                                                                                                  attribute), 254
                                                                                                    (in- render_mode (indico.modules.events.tracks.models.tracks.Track
render_entry()
                  dico. modules. events. logs. renderers. Event Log Renderer Base\ attribute),\ 260
                  class method), 189
                                                                                                                render_payment_form()
                                                                                                                                  dico.modules.events.payment.plugins.PaymentPluginMixin
render_entry_info_balloon() (in module in-
                  dico.modules.events.timetable.util), 258
                                                                                                                                  method), 209
render_event_buttons()
                                                                                                               render_pdf()
                                                                                                                                                                  (in
                                                                                                                                                                                       module
                                                                                                                                                                                                                     in-
                                                                                                    (in-
                  dico.modules.vc.plugins.VCPluginMixin
                                                                                                                                  dico.modules.events.contributions.util), 181
                  method), 315
                                                                                                                render_price()
                                                                                                                                                                                                                    (in-
                                                                                                                                  dico.modules.events.registration.models.registrations.Registration
render_form()
                                                                                                    (in-
                  dico.modules.events.requests.base.RequestDefinitionBase method), 214
                  class method), 239
                                                                                                                render_price()
                                                                                                                                                                                                                    (in-
render_form()
                                                                                                    (in-
                                                                                                                                  dico.modules.events.registration.models.registrations.Registration
                  dico.modules.vc.plugins.VCPluginMixin
                                                                                                                                  method), 216
                  method), 315
                                                                                                                render_price_adjustment()
                                                                                                                                                                                                                    (in-
render_info_box()
                                                                                                    (in-
                                                                                                                                  dico.modules.events.registration.models.registrations.Registration
```

method), 214		attribute), 168
render_protection_message()	(in-	required (indico.modules.events.registration.placeholders.invitations.Inv
dico.web.forms.fields.IndicoProtectionFie		attribute), 232
method), 345		RescheduleMode (class in in-
render_session_timetable() (in modul	le in-	· ·
dico.modules.events.timetable.util), 258		258
render_session_type_row() (in module	e in-	Rescheduler (class in in-
dico.modules.events.sessions.util), 245		dico.modules.events.timetable.reschedule),
<pre>render_template_func()</pre>	(in-	258
dico.core.plugins.WPJinjaMixinPlugin	static	Reservation (class in in-
method), 80		dico.modules.rb.models.reservations), 297
render_transaction_details()	(in-	reservation_id (in-
	mentPl	luginMixin dico.modules.rb.models.reservation_edit_logs.ReservationEditLo
method), 209		attribute), 300
renderer (indico.modules.events.logs.models.ent	ries.Ev	
attribute), 187		dico.modules.rb.models.reservation_occurrences.ReservationOcc
repeat_frequency	(in-	attribute), 300
dico.modules.rb.models.reservations.Rese	rvation	n ReservationEditLog (class in in-
attribute), 298		dico.modules.rb.models.reservation_edit_logs),
repeat_interval	(in-	299
${\it dico.modules.rb.models.reservations.Rese}$	ervation	n ReservationLink ( $class$ in in-
attribute), 298		dico.modules.rb.models.reservations), 299
RepeatFrequency (class in	in-	ReservationOccurrence (class in in-
dico.modules.rb.models.reservations), 290	6	dico.modules.rb.models.reservation_occurrences),
RepeatMapping (class in	in-	300
dico.modules.rb.models.reservations), 290	6	ReservationOccurrenceState (class in in-
$\verb"repetition" (indico.modules.rb.models.reservation") and the state of the control of the cont$	ons.Res	servation dico.modules.rb.models.reservation_occurrences),
attribute), 298		301
reply_to_address	(in-	reservations (indico.modules.events.models.events.Event
dico.modules.events.abstracts.models.em	ail_tem	
attribute), 151		reservations (indico.modules.rb.models.rooms.Room
reply_to_address	(in-	attribute), 292
dico. modules. events. reminders. models. reminders.	ninders	s.EventRemaindenns_need_confirmation (in-
attribute), 235		$dico. modules. rb. models. rooms. Room\ attribute),$
Request (class in	in-	292
dico.modules.events.requests.models.requ	ests),	ReservationState (class in in-
236		dico.modules.rb.models.reservations), 299
RequestDefinitionBase (class in	in-	$\verb"reset" () (indico.modules.events.agreements.models.agreements.Agreements) and the second control of the se$
dico.modules.events.requests.base), 237		method), 167
requested_dt (indico.modules.events.static.mod	dels.sta	
attribute), 262		dico.modules.events.abstracts.operations),
RequestState (class in	in-	157
dico.modules.events.requests.models.requ	ests),	reset_approval() (in-
237		dico. modules. rb. models. reservations. Reservation
require_feature() (in module	in-	method), 298
dico.modules.events.features.util), 181		reset_client_secret() (in-
require_login	(in-	dico. core. oauth. models. applications. OA uth Application
dico. modules. events. registration. models. for the property of the propert	orms.R	
attribute), 221		reset_paper_state() (in module in-
	on.mod	dels.forms.RegitstmatiduFastervents.papers.operations),
attribute), 221		203
$\verb"require_user" (indico.modules.events.surveys.m$	odels.s	
attribute), 247		dico.modules.users.models.users.User
required (indico.modules.events.agreements.place	ceholde	ers.Agreeme <b>muthokP</b> J@CEholder

```
(in-
                                                                                                    attribute), 134
reset state()
              dico.modules.events.abstracts.models.abstracts.Abstractsion attr
                                                                                                                                                                   (in-
              method), 146
                                                                                                    dico.modules.events.papers.models.reviews.PaperReview
                                                                                                    attribute), 200
reset_state()
                                                                             (in-
              dico.modules.events.papers.models.papers.Paper revision_count
              method), 197
                                                                                                    dico.modules.events.papers.models.papers.Paper
resolve title()
                                          (in
                                                         module
                                                                              in-
                                                                                                    attribute), 197
              dico.modules.vc.util), 314
                                                                                      revision_id(indico.modules.events.papers.models.comments.PaperRev
restore() (indico.modules.events.models.events.Event
                                                                                                    attribute), 194
              method), 126
                                                                                     revision_id(indico.modules.events.papers.models.files.PaperFile
restored (in module indico.core.signals.event), 86
                                                                                                    attribute), 196
RESULTS_PER_PAGE
                                                                             (in-
                                                                                     revision_id (indico.modules.events.papers.models.reviews.PaperRevie
              dico.modules.search.base.IndicoSearchProvider
                                                                                                    attribute), 200
              attribute), 70
                                                                                     revisions (indico.modules.events.notes.models.notes.EventNote
ResultSchemaBase
                                             (class
                                                                in
                                                                              in-
                                                                                                    attribute), 191
              dico.modules.search.result_schemas), 71
                                                                                      revisions (indico.modules.events.papers.models.papers.Paper
review (indico.modules.events.abstracts.models.review_ratings.AbstatteiButeig,wlRdting
              attribute), 154
                                                                                     revisions enabled
                                                                                                                                                                   (in-
review (indico.modules.events.papers.models.review_ratings.PaperRieviewBattleg.events.abstracts.models.abstracts.Abstract
              attribute), 198
                                                                                                    attribute), 146
review_class (indico.modules.events.abstracts.models.review_srixtings_AbstracteReviewRating
                                                                                                                                                                   (in-
                                                                                                   dico.modules.events.models.reviews.ProposalMixin
              attribute), 154
review_class (indico.modules.events.papers.models.review_ratingstPhpmeRevbewRating
              attribute), 198
                                                                                     revisions enabled
review_id (indico.modules.events.abstracts.models.review_ratings.dibotraactRiberseevRattsingodels.reviews.ProposalRevisionMixin
              attribute), 154
                                                                                                    attribute), 135
review_id (indico.modules.events.papers.models.review_retirigs:PaperReviewReting
                                                                                                                                                                   (in-
              attribute), 198
                                                                                                    dico.modules.events.papers.models.papers.Paper
reviewed_for (indico.modules.events.abstracts.models.abstracts.EditIbrate) Mode
              attribute), 148
                                                                                     rewrite_css_urls()
                                                                                                                                                 module
                                                                                                                                                                    in-
                                                                                                                                    (in
reviewed_for_tracks
                                                                             (in-
                                                                                                    dico.modules.events.static.util), 263
              dico.modules.events.abstracts.models.abstracts.Abstractite_static_url()
                                                                                                                                                  module
                                                                                                                                       (in
                                                                                                                                                                    in-
              attribute), 146
                                                                                                    dico.modules.events.static.util), 263
reviewers (indico.modules.events.abstracts.models.reviewerkbsitractCommenteVistbility (class
                                                                                                                                                      in
                                                                                                                                                                    in-
              attribute), 155
                                                                                                    dico.modules.events.static.util), 263
reviewers (indico.modules.events.papers.models.reviews\textbility)
                                                                                                                                    (class
                                                                                                                                                                    in-
                                                                                                    dico.modules.events.management.controllers),
reviewing (indico.modules.events.logs.models.entries.EventLogRedland
              attribute), 188
                                                                                     Room (class in indico.modules.rb.models.rooms), 289
                                                                             (in- room_id (indico.modules.rb.models.blocked_rooms.BlockedRoom
reviewing_instructions
              dico.modules.events.abstracts.models.call for abstracts.CallfiritAibs); als
              attribute), 148
                                                                                      room id (indico.modules.rb.models.reservations.Reservation
reviewing state
                                                                             (in-
                                                                                                    attribute), 298
              dico.modules.events.abstracts.models.abstracts.Abstracts.Abstracts.Abstracts.Abstracts.abstracts.Abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstracts.abstrac
              attribute), 146
                                                                                                    attribute), 292
revision (indico.modules.events.models.reviews.ProposalReviewiMi.(indico.modules.rb.models.room_bookable_hours.BookableHours.
              attribute), 134
                                                                                                    attribute), 293
revision (indico.modules.events.papers.models.reviews.PaperRevia\(\)(indico.modules.rb.models.room_nonbookable_periods.NonBookable)
              attribute), 200
                                                                                                    attribute), 293
revision_attr
                                                                             (in- room_name (indico.modules.events.contributions.models.subcontributions
              dico.modules.events.abstracts.models.reviews.AbstractReviewttribute), 178
                                                                                     {\tt room\_name}\ (indico.modules.search.result\_schemas.LocationResultSchem
              attribute), 156
```

attribute), 73

(in-

(in-

dico.modules.events.models.reviews.ProposalReviewsMiximame_format

revision_attr

	dico.modules.ra attribute), 296	b.models.loca	ations.Location	ı	schema	_post_dump dico.core.signals.	(in .plugin), 88	module	in-	
	tribute	(class	in	in-	schema	_post_load	(in	module	in-	
	dico.modules.ri	•				dico.core.signals.	`		•••	
	292		,		schema	_pre_load	(in	module	in-	
RoomAtt	tributeAssc	ciation	(class in	in-	o orrema.	dico.core.signals.	`		0.0	
	dico.modules.ri		`	111	scheme	(indico.modules.e			ReferenceType	
	292	b.moucis.roo	n_anrionics),		SCITCING	attribute), 132	venis.mouc	is.rejerences	.Rejerence Type	
roome (i	indico.modules.i	rh models lo	cations Locatio	n at-	scope (i	indico.core.oauth.i	models toke	ons OAuth2A	uthorizationCode	
•	tribute), 296	o.moueis.ioc	anons.Locano	n ai-	scope (	attribute), 308	moue is.ioke	ns.0/141112/1	umonzanoncoae	
	OLD_URLS (bu	ilt in variabl	a) 56		cconoc	(indico.core.oauth	h models an	nlications ()	AuthApplicationI	lsor <b>I</b> in
				uil tam	_	s <b>artteilEmme</b> vil TeVn pla		pucanons.O	липаррисиноно	serLin
		evenis.absira	cis.modeis.emc	ui_iem	_	_		kans TakanM	adalDana	
	attribute), 151		bla magabadula	Dogolo.		(indico.core.oauth	ı.moaeis.ioi	kens. Tokenivi	oaeibase	
	ndico.modules.e	evenis.iimeia	vie.rescheauie.	Kescne		attribute), 310	onto alestua	ota madala al	atua eta Abatua et	
	method), 259			G		indico.modules.eve	ents.abstrac	rs.moaeis.ai	stracts.Abstract	
	g (indico.modul	es.events.stai	ic.moaeis.stati	c.Statio			. 1 .	. 11	' 41D	
	attribute), 263				score(	indico.modules.eve	ents.abstrac	rts.models.re	views.AbstractRev	new
S						attribute), 156	. 11		7D : 14: 1	
S					score(	indico.modules.eve	ents.models	.reviews.Pro	posalReviewMixir	ı
safe_la	ast_login_d	lt		(in-		attribute), 134				
	dico.modules.a	uth.models.io	lentities.Identii	ty	score(	indico.modules.eve	ents.papers.	.models.revie	ews.PaperReview	
	attribute), 303					attribute), 200				
save()	(indico.modules	s.users.ext.Ex	traUserPrefere	ences	score(	indico.modules.use	ers.models	suggestions	SuggestedCategor	У
	method), 281					attribute), 277				
save_i	dentity_inf	(in	module	in-	search			s.core.Group	oProxy	
	dico.modules.a	uth.util), 304				class method), 31				
save_sı	ubmitted_su	rvey_to_	session()	(in	search	() (indico.module	es.search.ba	se.IndicoSed	archProvider	
	module ind	ico.modules.	events.surveys.	util),		method), 70				
	253					_data( <i>indico.mo</i>	odules.even	ts.registratio	n.models.registrat	ions.R
schedul	le (indico.modi	ıles.events.al	stracts.setting	s.BOAS	SortField	attribute), 216				
	attribute), 165		O		search	_payload			(in-	
schedul	le()( <i>indico.m</i>	odules.events	s.abstracts.moa	lels.cai	ll for abs	ાનોલ્જ.! <b>C</b> વર્તમ [ા] ક&સ્પકા	ptseqbstract	ts.fields.Abst	ractField	
	method), 148				<del>-</del> -	attribute), 328				
schedul	le()(indico.m	odules.events	s.papers.model	s.call	fore väber	s.Califindiapensod	lules.events	.abstracts.fie	lds.AbstractField	
	method), 193		T of the second		) = 1 <u>- 1</u> - 1	attribute), 328				
	le_board_nu	ımber		(in-	search	_users()	(in	module	in-	
	dico.modules.e		ts.settings.BO	,	ïeld	dico.modules.use	rs.util), 280	)		
	attribute), 165	, cstere street	1515011111651251	100.11	Search	Option (class in	indico.mo	dules.search	.base),	
	le_cfa()	(in	module	in-		70				
	dico.modules.e	*			Search	Options	(class	in	in-	
	157	venis.aosirae	is.operanons),			dico.modules.sea	*	70		
	le_cfp()	(in	module	in-	Search	Target (class in			.base).	
	dico.modules.e	*		ırı-		70			,	
	203	venis.papers.	operations),		second	ary(indico.modu	les events c	ontributions	models persons A	uthorT
		+ + ()	(in modulo	in	0000110	attribute), 174			cressip er serisir	
	le_contribu		(in module	in-	second	ary_authors			(in-	
	dico.modules.e	vents.timetat	ne.operanons),		SCCOIIG		nte modele	narsons Autl	norsSpeakersMixii	n
	256	1. 1	1	1 1	1		momoueis,	persons.11ull	ю вырешкетыный	
		o.modules.eve	ents.reminders.	models	s.reminder	sattvihutedminder			(in-	
	attribute), 235				second	ary_emails <i>dico.modules.use</i>	re models -	sars Hear	,	
	led_notes		-	(in-			rs.moueis.u	seis. USEI	at-	
	dico.modules.e	vents.models	.events.Event		0.0000-1	tribute), 275			(in	
	attribute), 126	401			second	ary_local_ide			(in-	
SCHEDUI	LED_TASK_OV	ERRIDE ( $b\iota$	uitt-in variable)	), 49		dico.modules.use tribute), 275	rs.moaets.u	sers. User	at-	

dico.modules.categories.serialize), 269

dico.modules.categories.serialize), 270

```
attribute), 248
                                                              dico.modules.categories.util), 269
section pd (indico.modules.events.registration.models.itsmx.Ražistration:Formhton:Typepre bookings ()
                                                                                                      (in
        attribute), 224
                                                              module indico.modules.rb.util), 301
                                                     serialize contribution for ical()
sections (in module indico.core.signals.menu), 88
sections (indico.modules.events.registration.models.forms.RegistrationForm
                                                                                module
                                                                                                      in-
        attribute), 221
                                                              dico.modules.events.contributions.util), 181
sections (indico.modules.events.surveys.models.surveys.Surveys.lize_contribution_person_link()
        attribute), 247
                                                                                module
                                                              (in
                                                                                                      in-
sections_with_answered_fields
                                                              dico.modules.events.contributions.util), 181
                                                (in-
        dico.modules.events.registration.models.registrationevent_for_ical() (in module in-
                                                              dico.modules.events.util), 141
        attribute), 214
send()(indico.modules.events.reminders.models.reminders.ÆvæntRæmindervent_for_json_ld() (in module
                                                              indico.modules.events.util), 141
        method), 235
send() (indico.modules.events.requests.base.RequestDefinistionBasis.ze_event_person()
                                                                                       (in
                                                                                             module
                                                                                                      in-
        class method), 239
                                                              dico.modules.events.util), 141
send avatar()
                        (in
                                  module
                                                 in-
                                                     serialize group()
                                                                                  (in
                                                                                          module
                                                                                                      in-
        dico.modules.users.util), 280
                                                              dico.modules.groups.util), 311
send default avatar()
                                      module
                                                     serialize_ip_network_group() (in module in-
                                (in
                                                 in-
        dico.modules.users.util), 280
                                                              dico.modules.networks.util), 326
send new agreements()
                                                     serialize log entry()
                                (in
                                      module
                                                                                            module
                                                                                                      in-
                                                in-
        dico.modules.events.agreements.util), 167
                                                              dico.modules.events.logs.util), 188
                                                     serialize_nonbookable_periods() (in mod-
send_start_notification()
                                                (in-
        dico.modules.events.surveys.models.surveys.Survey
                                                              ule indico.modules.rb.util), 302
        method), 247
                                                     serialize_occurrences()
                                                                                       (in
                                                                                             module
                                                                                                      in-
send_submission_notification()
                                                              dico.modules.rb.util), 302
                                                (in-
        dico.modules.events.surveys.models.surveys.Surveyerialize_person_for_json_ld() (in module
        method), 247
                                                              indico.modules.events.util), 141
send_to_participants
                                                (in- serialize_person_link()
                                                                                       (in
                                                                                            module
                                                                                                      in-
        dico.modules.events.reminders.models.reminders.EventRemitidomodules.events.util), 141
        attribute), 235
                                                      serialize_registration_form() (in module
send_to_speakers
                                                (in-
                                                              indico.modules.events.registration.util), 229
        dico.modules.events.reminders.models.reminders.EventRemindersession_for_ical() (in module in-
        attribute), 235
                                                              dico.modules.events.sessions.util), 245
sent_dt (indico.modules.events.abstracts.models.email_logs.AbstractEmailbogEntbyle_hours() (in module in-
        attribute), 150
                                                              dico.modules.rb.util), 302
SENTRY_DSN (built-in variable), 54
                                                     serialize_user()
                                                                                 (in
                                                                                         module
                                                                                                      in-
SENTRY LOGGING LEVEL (built-in variable), 54
                                                              dico.modules.users.util), 280
separator (indico.modules.events.layout.models.menu.Memtertes/Typedico.modules.events.models.events.Event at-
        attribute), 185
                                                              tribute), 126
                                                      series_id(indico.modules.events.models.events.Event
serialize_availability()
                                  (in module
                                                in-
        dico.modules.rb.util), 301
                                                              attribute), 126
serialize_blockings()
                                                     service_name(indico.modules.vc.plugins.VCPluginMixin
                                (in
                                      module
                                                 in-
        dico.modules.rb.util), 301
                                                              attribute), 316
serialize_booking_details() (in module in-
                                                     Session
                                                                          (class
                                                                                          in
                                                                                                      in-
        dico.modules.rb.util), 301
                                                              dico.modules.events.sessions.models.sessions),
serialize_categories_ical() (in module in-
        dico.modules.categories.serialize), 269
                                                      \verb§session] (indico.modules.attachments.models.folders.AttachmentFolder
serialize_category()
                               (in
                                                in-
                                                              attribute), 285
        dico.modules.categories.serialize), 269
                                                      session (indico.modules.events.contributions.models.contributions.Contributions.
serialize_category_atom() (in module in-
                                                              attribute), 172
```

section (indico.modules.events.registration.models.items.Registration.Founttem.Dype_chain() (in module in-

section(indico.modules.events.surveys.models.items.SurveyItémTypze_category_role() (in module in-

SECRET KEY (built-in variable), 54

attribute), 224

```
session (indico.modules.events.contributions.models.subcontribution) Sub-Contribution
                                                                                                                                                                     (in-
                                                                                                     dico.modules.events.abstracts.settings.BOASortField
              attribute), 178
session (indico.modules.events.notes.models.notes.EventNote
                                                                                                     attribute), 165
              attribute), 191
                                                                                       session_coordinator_priv_enabled()
                                                                                                                                                                      (in
session (indico.modules.events.sessions.models.sessions.Session
                                                                                                    module
                                                                                                                      indico.modules.events.sessions.util),
                                                                                                      245
              attribute), 241
session(indico.modules.rb.models.reservations.Reservationableixkon deleted
                                                                                                                                  (in
                                                                                                                                                 module
                                                                                                                                                                      in-
              attribute), 299
                                                                                                      dico.core.signals.event), 86
session_block
                                                                              (in-
                                                                                      session_id(indico.modules.attachments.models.folders.AttachmentFold
              dico.modules.attachments.models.folders.AttachmentFolderattribute), 285
              attribute), 285
                                                                                       {\tt session\_id} (indico.modules.events.contributions.models.contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributions.Contributi
                                                                              (in-
                                                                                                     attribute), 172
session_block
              dico.modules.events.contributions.models.contributions.Contributionalico.modules.events.notes.models.notes.EventNote
              attribute), 172
                                                                                                     attribute), 191
session_block
                                                                              (in-session\_id(indico.modules.events.sessions.models.blocks.SessionBlocks))
              dico.modules.events.notes.models.notes.EventNote
                                                                                                     attribute), 243
              attribute), 191
                                                                                       session_id(indico.modules.events.sessions.models.principals.SessionP
session block
                                                                                                     attribute), 244
                                                                              (in-
              dico.modules.events.timetable.models.entries.TimetableEntry_id (indico.modules.rb.models.reservations.ReservationLink
                                                                                                     attribute), 299
SESSION BLOCK
                                                                              (in- SESSION_LIFETIME (built-in variable), 55
              dico.modules.events.timetable.models.entries.TimesableEntryTspenedule_board
              attribute), 256
                                                                                                     dico.modules.events.abstracts.settings.BOASortField
session block
                                                                              (in-
                                                                                                     attribute), 165
              dico.modules.rb.models.reservations.ReservationLimbssion siblings
                                                                                                                                                                     (in-
              attribute), 299
                                                                                                     dico.modules.events.timetable.models.entries.TimetableEntry
session_block_count
                                                                                                     attribute), 255
                                                                              (in-
              dico.modules.events.models.events.Event
                                                                                       session_title
                                                                                                                                                                     (in-
              attribute), 127
                                                                                                     dico.modules.events.abstracts.settings.BOASortField
session_block_deleted
                                                    (in
                                                              module
                                                                                                     attribute), 165
                                                                               in-
              dico.core.signals.event), 86
                                                                                       session_updated
                                                                                                                                                 module
                                                                                                                                                                      in-
session_block_id
                                                                              (in-
                                                                                                      dico.core.signals.event), 86
              dico.modules.attachments.models.folders.Attachm&mtEolidenBlock
                                                                                                                               (class
                                                                                                                                                                      in-
                                                                                                                                                     in
              attribute), 285
                                                                                                     dico.modules.events.sessions.models.blocks),
session block id
                                                                              (in-
              dico.modules.events.contributions.models.contributions.Contributions.Contributions
                                                                                                                                              (class
                                                                                                                                                                      in-
              attribute), 172
                                                                                                     dico.modules.events.sessions.models.persons),
session_block_id
                                                                              (in-
                                                                                                     243
              dico.modules.events.notes.models.notes.EventNot&essionBlockPersonLinkListField (class in
                                                                                                     indico.modules.events.sessions.fields), 333
              attribute), 191
                                                                              (in- SessionListToPDF
session block id
                                                                                                                                     (class
                                                                                                                                                                      in-
              dico.modules.events.sessions.models.persons.SessionBlockPdisonLindlales.events.sessions.util), 244
              attribute), 243
                                                                                       SessionPrincipal
                                                                                                                                     (class
                                                                                                                                                                      in-
session_block_id
                                                                              (in-
                                                                                                     dico.modules.events.sessions.models.principals),
              dico.modules.events.timetable.models.entries.TimetableEntr\( \)\( 43\)
              attribute), 255
                                                                                       set () (indico.modules.categories.settings.CategorySettingsProxy
session_block_id
                                                                              (in-
                                                                                                     method), 270
              dico.modules.rb.models.reservations.ReservationLinkt()
                                                                                                    (indico.modules.events.settings.EventACLProxy
              attribute), 299
                                                                                                     method), 142, 205
session_block_id
                                                                              (in- set () (indico.modules.events.settings.EventSettingsProxy
              dico.modules.vc.models.vc_rooms.VCRoomEventAssociatiomethod), 143, 206
              attribute), 313
                                                                                       set () (indico.modules.users.models.settings.UserSettingsProxy
session_block_updated
                                                    (in
                                                              module
                                                                               in-
                                                                                                     method), 278
              dico.core.signals.event), 86
                                                                                       set_attribute_value()
                                                                                                                                                                     (in-
```

```
dico.modules.rb.models.rooms.Room method), settings form
                                                                                                                                                                                                                          (in-
                   292
                                                                                                                                      dico.modules.events.payment.plugins.PaymentPluginMixin
set_custom_field()
                                                                                                                                      attribute), 209
                   dico. modules. events. contributions. models. contributious. {\tt Causto} \underline{\textit{m}} \textbf{Fixel} ds \textit{Mixin}
                                                                                                                                                                                                                          (in-
                  method), 172
                                                                                                                                      dico.modules.vc.plugins.VCPluginMixin
set custom fields()
                                                                 (in
                                                                                module
                                                                                                                                      attribute), 316
                                                                                                         in-
                  dico, modules, events, util), 141
                                                                                                                   settings form field opts
                                                                                                                                                                                                                          (in-
                                                                                                                                      dico.core.plugins.IndicoPlugin
set deadline()
                                                      (in
                                                                           module
                                                                                                         in-
                                                                                                                                                                                                              attribute),
                   dico.modules.events.papers.operations),
                                                                                                                                      78
                   203
                                                                                                                   shell_context
                                                                                                                                                                        (in
                                                                                                                                                                                             module
                                                                                                                                                                                                                            in-
set_feature_enabled()
                                                                    (in
                                                                                  module
                                                                                                        in-
                                                                                                                                      dico.core.signals.plugin), 89
                   dico.modules.events.features.util), 181
                                                                                                                   shift_following_entries() (in module
                                                                                                                                                                                                                           in-
set_multi() (indico.modules.categories.settings.CategorySettings.Piaxmodules.events.timetable.util), 258
                  method), 271
                                                                                                                   short_external_url
                                                                                                                                                                                                                          (in-
set_multi() (indico.modules.events.settings.EventSettingsProxy dico.modules.events.models.events.Event
                   method), 144, 206
                                                                                                                                      attribute), 127
set\_multi() (indico.modules.users.models.settings.Usersettings.Powx) eta(indico.modules.events.tracks.models.tracks.Tracks.models.tracks.Tracks.tracks.Tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks.tracks
                  method), 278
                                                                                                                                      attribute), 260
set_participant_list_columns()
                                                                                                       (in- short_title_with_group
                  dico.modules.events.registration.settings.RegistrationSettingsleventsoldules.events.tracks.models.tracks.Track
                  method), 232
                                                                                                                                      attribute), 260
set_participant_list_form_ids()
                                                                                                       (in- short_url (indico.modules.events.models.events.Event
                   dico.modules.events.registration.settings.RegistrationSettings:Pribute), 127
                                                                                                                   should_show_draft_warning() (in module in-
                  method), 232
set_reviewing_state()
                                                                    (in
                                                                                  module
                                                                                                        in-
                                                                                                                                      dico.modules.events.util), 141
                   dico.modules.events.papers.operations),
                                                                                                                   show(indico.modules.vc.models.vc rooms.VCRoomEventAssociation
                                                                                                                                      attribute), 313
                                                                                                                  show_links(indico.modules.events.models.series.EventSeries
set_reviewing_state()
                                                                                                       (in-
                  dico.modules.events.papers.models.call_for_papers.CallFordPatribuste), 135
                  method), 193
                                                                                                                   show_sequence_in_title
                                                                                                                                                                                                                          (in-
set_user_avatar()
                                                             (in
                                                                              module
                                                                                                         in-
                                                                                                                                      dico.modules.events.models.series.EventSeries
                   dico.modules.users.util), 280
                                                                                                                                      attribute), 135
settings (indico.core.plugins.IndicoPlugin attribute), siblings (indico.modules.events.timetable.models.entries.TimetableEntr.
                                                                                                                                      attribute), 255
settings (indico.modules.auth.models.registration_requests)RegistrationPeopuest
                                                                                                                                                                                                                          (in-
                                                                                                                                      dico.modules.events.timetable.models.entries.TimetableEntry
                  attribute), 303
settings (indico.modules.events.settings.ThemeSettingsProxy
                                                                                                                                      attribute), 255
                   attribute), 144, 206
                                                                                                                   sidemenu (in module indico.core.signals.event), 86
settings (indico.modules.users.models.users.User at- signed_dt (indico.modules.events.agreements.models.agreements.Agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreements.agreem
                  tribute), 275
                                                                                                                                      attribute), 167
settings_backref_name
                                                                                                       (in-
                                                                                                                  signed from ip
                                                                                                                                                                                                                          (in-
                   dico.modules.events.models.settings.EventSetting
                                                                                                                                      dico.modules.events.agreements.models.agreements.Agreement
                  attribute), 135
                                                                                                                                      attribute), 167
settings_backref_name
                                                                                                       (in- signed_on_behalf
                                                                                                                                                                                                                          (in-
                  dico.modules.events.models.settings.EventSettingPrincipal dico.modules.events.agreements.models.agreements.Agreement
                   attribute), 136
                                                                                                                                      attribute), 167
settings_backref_name
                                                                                                       (in- signing_secret
                                                                                                                                                                                                                          (in-
                  dico.modules.events.models.settings.EventSettingsMixin
                                                                                                                                      dico.modules.users.models.users.User
                                                                                                                                                                                                                            at-
                  attribute), 136
                                                                                                                                      tribute), 275
settings_converters
                                                                                                       (in-
                                                                                                                  SimpleRenderer
                                                                                                                                                                            (class
                                                                                                                                                                                                                            in-
                  dico.core.plugins.IndicoPlugin
                                                                                                                                      dico.modules.events.logs.renderers), 189
                                                                                           attribute),
                                                                                                                   site (indico.modules.rb.models.rooms.Room attribute),
settings_form (indico.core.plugins.IndicoPlugin at-
                   tribute), 78
                                                                                                                   size (indico.modules.attachments.models.attachments.AttachmentFile
```

```
attribute), 283
                                                                  dico.modules.rb.models.rooms.Room attribute),
\verb|size| (indico.modules.designer.models.images.DesignerImageFile|) \\
                                                                  292
         attribute), 317
                                                         SQLALCHEMY DATABASE URI (built-in variable), 51
size (indico.modules.events.abstracts.models.files.Abstract#QEALCHEMY_POOL_RECYCLE (built-in variable), 51
                                                         SQLALCHEMY_POOL_SIZE (built-in variable), 51
         attribute), 152
size (indico.modules.events.layout.models.images.ImageFB@LALCHEMY POOL TIMEOUT (built-in variable), 51
                                                         standard(indico.modules.users.models.users.ProfilePictureSource
         attribute), 182
size (indico.modules.events.papers.models.files.PaperFile
                                                                  attribute), 272
         attribute), 196
                                                         start_date(indico.modules.rb.models.blockings.Blocking
size (indico.modules.events.papers.models.templates.PaperTemplateattribute), 294
         attribute), 203
                                                         start_dt (indico.modules.events.abstracts.models.call_for_abstracts.Ca
size (indico.modules.events.registration.models.registrations.RegistratiribDac)a 148
         attribute), 216
                                                         start_dt (indico.modules.events.contributions.models.contributions.Con
size (indico.modules.events.static.models.static.StaticSite
                                                                  attribute), 172
         attribute), 262
                                                         start_dt (indico.modules.events.models.events.Event
skip_moderation
                                                   (in-
                                                                  attribute), 127
         dico.modules.events.registration.models.invitations.Registrationindiitatinoodules.events.papers.models.call_for_papers.CallFor
                                                                  attribute), 194
slug (indico.modules.events.contributions.models.contributionss:Contributions.modules.events.registration.models.forms.RegistrationF
         attribute), 172
                                                                  attribute), 221
slug (indico.modules.events.contributions.models.subcontributions.SubCoditributionbutidules.events.sessions.models.blocks.SessionBlock
                                                                  attribute), 243
         attribute), 178
slug (indico.modules.events.sessions.models.blocks.SessionsBlack_dt (indico.modules.events.sessions.models.sessions.Session
         attribute), 243
                                                                  attribute), 241
slug (indico.modules.news.models.news.NewsItem at-
                                                         start_dt (indico.modules.events.surveys.models.surveys.Survey
         tribute), 327
                                                                  attribute), 247
SMTP_LOGIN (built-in variable), 53
                                                         start_dt (indico.modules.events.timetable.models.breaks.Break
SMTP_PASSWORD (built-in variable), 53
                                                                  attribute), 254
SMTP_SERVER (built-in variable), 53
                                                         start_dt (indico.modules.events.timetable.models.entries.TimetableEntr
SMTP_TIMEOUT (built-in variable), 53
                                                                  attribute), 255
SMTP_USE_CELERY (built-in variable), 52
                                                         start_dt (indico.modules.rb.models.reservation_occurrences.Reservatio
SMTP_USE_TLS (built-in variable), 53
                                                                  attribute), 300
sort_contribs()
                            (in
                                      module
                                                         start_dt (indico.modules.rb.models.reservations.Reservation
         dico.modules.events.contributions.util), 181
                                                                  attribute), 298
sort_reviewing_questions() (in module in-
                                                         start_dt(indico.modules.rb.models.room_nonbookable_periods.NonBo
         dico.modules.events.operations), 138
                                                                  attribute), 293
source (indico.modules.events.notes.models.notes.EventNoteRevision (indico.modules.search.result_schemas.ContributionResultSche
         attribute), 192
                                                                  attribute), 72
speaker (indico.modules.events.abstracts.settings.BOASorsEieckt_dt (indico.modules.search.result_schemas.EventResultSchema
         attribute), 165
                                                                  attribute), 71
speakers (indico.modules.events.abstracts.settings.BOACotraspondingAidtholtTaype
                                                                                                            (in-
         attribute), 165
                                                                  dico.modules.events.contributions.models.contributions.Contribu
speakers (indico.modules.events.abstracts.settings.SubmissionRightsflyibete), 172
         attribute), 165
                                                         start_dt_display
                                                                                                            (in-
speakers (indico.modules.events.contributions.models.subcontributidious.fuddilous.fubutionmodels.events.Event
         attribute), 178
                                                                  attribute), 127
speakers (indico.modules.events.models.persons.Authors.Speakers.Mtixin) ocal
                                                                                                            (in-
         attribute), 128
                                                                  dico.modules.events.models.events.Event
split_data(indico.web.forms.fields.RelativeDeltaField
                                                                  attribute), 127
         attribute), 346
                                                         start_dt_override
                                                                                                            (in-
                                                                  dico.modules.events.models.events.Event
spotlight_file
                                                   (in-
         dico.modules.events.papers.models.revisions.PaperRevisionattribute), 127
                                                                                                            (in-
         attribute), 201
                                                         start_dt_poster
sprite_position
                                                   (in-
                                                                  dico.modules.events.contributions.models.contributions.Contribu
```

attribute), 172		dico.modu	ıles.events.static.	.models.static	·),	
start_notification_emails	(in-	262				
dico.modules.events.surveys.models.surv	eys.Surve§tats	Base	(class	in	in-	
attribute), 247		dico.modu	ıles.events.registi	ration.stats),	234	
start_notification_recipients		s (indico.mo	dules.events.pay	ment.models.	transactions.PaymentTr	ar
dico.modules.events.surveys.models.surv		attribute),				
attribute), 247	statu	s (indico.m	nodules.vc.model	$ls.vc_rooms.V$	'CRoom	
start_notification_sent	(in-	attribute),	312			
dico.modules.events.surveys.models.surv	eys.Surve <b>y</b> top_	on_match			(in-	
attribute), 247		dico.modu	ıles.events.abstra	acts.models.er	mail_templates.Abstract	$E_{i}$
$\verb start_time   (indico.modules.rb.models.room_beta)   $	ookable_hours.B	oo <b>katbibHte</b> t);	<b>A</b> 51			
attribute), 293	stora	ge_backer	nd		(in-	
starts_between()	(in-	dico.modu	ıles.attachments.	models.attacl	hments.AttachmentFile	
dico.modules.events.models.events.Event	•	attribute),	283			
method), 127	stora	ge_backer	nd		(in-	
${\tt state}\ (indico.modules.events.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abstracts.models.abst$	bstracts.Abstract	dico.modu	ıles.designer.mod	dels.images.D	DesignerImageFile	
attribute), 146		attribute),	317			
state (indico.modules.events.agreements.models.	.agreemenas.Agre	oge <u>ne</u> botacker	nd		(in-	
attribute), 167			ıles.events.abstra	acts.models.fil	les.AbstractFile	
state (indico.modules.events.papers.models.pape	ers.Paper	attribute),	152			
attribute), 197		ge_backer	nd		(in-	
state (indico.modules.events.papers.models.revis		-		t.models.imas	ges.ImageFile	
attribute), 201	1	attribute),		O	, 0	
state (indico.modules.events.registration.models	.invitationstRegis				(in-	
attribute), 222	Ö		ıles.events.paper	s.models.files	.PaperFile	
state (indico.modules.events.registration.models	registrations.Res			J	1	
attribute), 214		ge_backer			(in-	
state (indico.modules.events.requests.models.req				s.models.tem	plates.PaperTemplate	
attribute), 237	1	attribute),		1	1 1	
state (indico.modules.events.static.models.static	. <i>StaticSite</i> stora				(in-	
attribute), 262				ration.models	s.registrations.Registrati	01
state (indico.modules.events.surveys.models.sur	vevs.Survev	attribute),			0	
attribute), 247		ge_backer			(in-	
State (indico.modules.rb.models.blocked_rooms.			ıles.events.static.	.models.static	:.StaticSite	
attribute), 294		attribute),				
state(indico.modules.rb.models.blocked_rooms.	<i>Blocked<b>R</b>⊗™</i> ®RA			riable), 55		
attribute), 294		ge_file_i		,,	(in-	
state(indico.modules.rb.models.reservation_occ				.models.attacl	,	
attribute), 301		attribute),				
state(indico.modules.rb.models.reservations.Re	servationst ora				(in-	
attribute), 298	<i>50.76.55</i> .5.5.2.4	-		dels images D	DesignerImageFile	
state_name(indico.modules.rb.models.blocked_	rooms BlockedR		0	1015111110160512	esignerimager ne	
attribute), 294		ge_file_i			(in-	
STATIC_FILE_METHOD (built-in variable), 56	50014		ıles.events.abstra	acts models fi	,	
static_items(indico.modules.events.util.List(	GeneratorRase	attribute),		icisimo deisijii		
attribute), 139		ge_file_i			(in-	
STATIC_SITE_STORAGE (built-in variable), 55			ıles.events.layouı	t models imag	,	
StaticListLink (class in	in-	attribute),	•	i.moacis.imas	ges.imagei ne	
dico.modules.events.models.static_list_li		ge_file_i			(in-	
136	,, blora		ıles.events.paper	es models files	`	
StaticSite (class in	in-	attribute),		s.modeis.jues	aperi m	
dico.modules.events.static.models.static)		ge_file_i			(in-	
262	, scora			es models tem	plates.PaperTemplate	
StaticSiteState (class in	in-	attribute)		s.moucis.iemp	pianes.1 apei 1011ipiaie	

```
storage_file_id
                                                                                                        (in- subcontribution_id
                                                                                                                                                                                                                            (in-
                   dico.modules.events.registration.models.registrations.RegistrationDdtdes.events.contributions.models.references.SubContribu
                                                                                                                                       attribute), 177
                  attribute), 216
storage_file_id
                                                                                                        (in- subcontribution id
                                                                                                                                                                                                                            (in-
                   dico.modules.events.static.models.static.StaticSite
                                                                                                                                       dico.modules.events.notes.models.notes.EventNote
                  attribute), 262
                                                                                                                                       attribute), 192
store_configuration()
                                                                                                                 subcontribution id
                  dico.modules.events.util.ListGeneratorBase
                                                                                                                                       dico.modules.rb.models.reservations.ReservationLink
                  method), 139
                                                                                                                                       attribute), 299
                                                                                                        (in- subcontribution_id
stored_file_class
                   dico.modules. attachments. models. attachments. Attachment \ \ dico.modules. search. result\_schemas. Attachment Result Schema \ \ dico.modules. attachments. The sult of the
                  attribute), 282
                                                                                                                                       attribute), 72
stored_file_fkey
                                                                                                        (in- subcontribution_id
                                                                                                                                                                                                                            (in-
                  dico.modules.attachments.models.attachments.Attachment \ dico.modules.search.result\_schemas.EventNoteResultSchema
                   attribute), 282
                                                                                                                                       attribute), 73
stored_file_table
                                                                                                        (in- subcontribution_id
                   dico.modules.attachments.models.attachments.Attachment dico.modules.search.result_schemas.SubContributionResultSchen
                   attribute), 282
                                                                                                                                       attribute), 72
STRICT_LATEX (built-in variable), 54
                                                                                                                    subcontribution_updated (in
                                                                                                                                                                                                       module
strict_settings (indico.core.plugins.IndicoPlugin
                                                                                                                                       dico.core.signals.event), 87
                   attribute), 78
                                                                                                                    SubContributionPersonLink (class in
stylesheet (indico.modules.events.models.events.Event
                                                                                                                                       dico.modules.events.contributions.models.persons),
                   attribute), 127
stylesheet_metadata
                                                                                                                   SubContributionPersonLinkListField (class
                  dico.modules.events.models.events.Event
                                                                                                                                       in indico.modules.events.contributions.fields),
                  attribute), 127
SubContribution
                                                           (class
                                                                                      in
                                                                                                         in- SubContributionReference
                                                                                                                                                                                                (class
                                                                                                                                                                                                                 in
                  dico.modules.events.contributions.models.subcontributions) \\ dico.modules.events.contributions.models.references), \\
                                                                                                                                       177
                                                                                                        (in- SubContributionResultSchema (class in in-
subcontribution
                  dico.modules.attachments.models.folders.AttachmentFolder dico.modules.search.result_schemas), 72
                  attribute), 285
                                                                                                                    subcontributions
                                                                                                                                                                                                                            (in-
                                                                                                        (in-
                                                                                                                                       dico.modules.events.contributions.models.contributions.Contribu
subcontribution
                   dico. modules. events. notes. models. notes. Event Note\\
                                                                                                                                       attribute), 172
                  attribute), 191
                                                                                                                    subject (indico.modules.events.abstracts.models.email_logs.AbstractEm
subcontribution
                                                                                                                                       attribute), 150
                                                                                                        (in-
                  dico.modules.rb.models.reservations.ReservationLimb ject (indico.modules.events.abstracts.models.email\_templates.Abstracts.models.email\_templates.Abstracts.models.email\_templates.Abstracts.models.email\_templates.Abstracts.models.email\_templates.Abstracts.models.email\_templates.Abstracts.models.email\_templates.Abstracts.models.email\_templates.Abstracts.models.email\_templates.Abstracts.models.email\_templates.Abstracts.models.email\_templates.Abstracts.models.email\_templates.Abstracts.models.email\_templates.Abstracts.models.email\_templates.Abstracts.models.email\_templates.Abstracts.models.email\_templates.Abstracts.models.email\_templates.Abstracts.models.email\_templates.Abstracts.models.email\_templates.Abstracts.models.email\_templates.Abstracts.models.email\_templates.Abstracts.models.email\_templates.Abstracts.models.email\_templates.Abstracts.models.email\_templates.Abstracts.models.email\_templates.Abstracts.models.email\_templates.Abstracts.models.email\_templates.Abstracts.models.email\_templates.Abstracts.models.email\_templates.Abstracts.models.email\_templates.Abstracts.models.email\_templates.Abstracts.models.email\_templates.Abstracts.models.email\_templates.Abstracts.models.email\_templates.Abstracts.models.email\_templates.Abstracts.models.email\_templates.Abstracts.models.email\_templates.Abstracts.models.email\_templates.Abstracts.models.email\_templates.Abstracts.models.email\_templates.Abstracts.models.email\_templates.Abstracts.models.email\_templates.abstracts.models.email\_templates.abstracts.models.email\_templates.abstracts.models.email\_templates.abstracts.models.email\_templates.abstracts.models.email\_templates.abstracts.models.email\_templates.abstracts.models.email\_templates.abstracts.models.email\_templates.abstracts.models.email\_templates.abstracts.models.email\_templates.abstracts.models.email\_templates.abstracts.models.email\_templates.abstracts.models.email\_templates.abstracts.models.email\_templates.abstracts.models.email\_templates.abstracts.models.email\_templates.abstracts.models.email\_templates.abstracts.models.
                  attribute), 299
                                                                                                                                       attribute), 151
subcontribution
                                                                                                                    submission_comment
                                                                                                                                                                                                                            (in-
                                                                                                        (in-
                   dico.modules.search.base.SearchTarget
                                                                                                                                       dico.modules.events.abstracts.models.abstracts.Abstract
                                                                                                         at-
                  tribute), 70
subcontribution_count
                                                                                                                 submission id
                                                                                                        (in-
                  dico.modules.events.contributions.models.contributions.Conditioniodules.events.surveys.models.submissions.SurveyAnswer
                  attribute), 172
                                                                                                                                       attribute), 251
subcontribution_created (in
                                                                                    module
                                                                                                         in-
                                                                                                                    submission_instructions
                   dico.core.signals.event), 87
                                                                                                                                       dico.modules.events.abstracts.models.call_for_abstracts.CallFora
subcontribution_deleted (in
                                                                                    module
                                                                                                         in-
                                                                                                                                       attribute), 148
                                                                                                                    submission_limit
                  dico.core.signals.event), 87
subcontribution_id
                                                                                                        (in-
                                                                                                                                       dico.modules.events.surveys.models.surveys.Survey
                  dico.modules.attachments.models.folders.AttachmentFolderattribute), 247
                  attribute), 285
                                                                                                                    SubmissionRightsType
                                                                                                                                                                                         (class
                                                                                                                                                                                                              in
                                                                                                                                                                                                                             in-
subcontribution_id
                                                                                                                                       dico.modules.events.abstracts.settings), 165
                                                                                                        (in-
                  dico.modules.events.contributions.models.personss Sub Contribution (Padion binoldules.events.surveys.models.surveys.Survey
                  attribute), 175
                                                                                                                                       attribute), 247
```

```
submitted (indico, modules, events, abstracts, models, abstracts. Abstracts, Placeholders),
                   attribute), 148
submitted (indico.modules.events.papers.models.revisions:Rapers&visidneStatedules.events.static.models.staticStaticState
                   attribute), 202
                                                                                                                                      attribute), 263
submitted_contrib_type
                                                                                                       (in- successful (indico.modules.events.payment.models.transactions.Transa
                  dico.modules.events.abstracts.models.abstracts.Abstract
                                                                                                                                      attribute), 208
                   attribute), 146
                                                                                                                   suggested_categories
                                                                                                                                                                                                                          (in-
                                                                                                                                      dico.modules.users.models.users.User
submitted_contrib_type_id
                                                                                                       (in-
                                                                                                                                                                                                                            at-
                   dico.modules.events.abstracts.models.abstracts.Abstract
                                                                                                                                      tribute), 275
                   attribute), 147
                                                                                                                   SuggestedCategory
                                                                                                                                                                                  (class
                                                                                                                                                                                                                            in-
submitted_dt (indico.modules.events.abstracts.models.abstracts.Abstracts.Abstracts.models.suggestions),
                   attribute), 147
                                                                                                                                      276
submitted_dt(indico.modules.events.papers.models.revisions.aPaparRavisionsabled
                                                                                                                                                                                                                          (in-
                  attribute), 201
                                                                                                                                      dico.modules.categories.models.categories.Category
submitted_dt(indico.modules.events.registration.models.registrationriblaeg)sposion
                   attribute), 215
                                                                                                                   summary (indico.modules.events.logs.models.entries.EventLogEntry
submitted_dt (indico.modules.events.surveys.models.submissions & turibant Suph & Sission
                   attribute), 251
                                                                                                                   summary_data(indico.modules.events.registration.models.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.registrations.reg
submitted_for_tracks
                                                                                                       (in-
                                                                                                                                      attribute), 215
                  dico.modules.events.abstracts.models.abstracts.Abstracts.q_data (indico.modules.events.registration.models.registrations.registrations.registration.models.registrations.registrations.registration.models.registrations.registration.models.registrations.registration.models.registrations.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.registration.models.r
                  attribute), 147
                                                                                                                                      attribute), 216
submitter (indico.modules.events.abstracts.models.abstractRADRTactMAIL (built-in variable), 53
                                                                                                                   supports_currency()
                   attribute), 147
                                                                                                                                                                                                                          (in-
submitter (indico.modules.events.abstracts.settings.AllowEditingTspeo.modules.events.payment.plugins.PaymentPluginMixin
                                                                                                                                      method), 210
                   attribute), 164
submitter (indico.modules.events.abstracts.settings.BOACorrespondingAuthindlispenodules.rb.models.rooms.Room
                   attribute), 165
                                                                                                                                      attribute), 292
submitter (indico.modules.events.papers.models.revisions:PaperRevision
                                                                                                                                                             (class
                                                                                                                                                                                                in
                                                                                                                                                                                                                            in-
                  attribute), 201
                                                                                                                                      dico.modules.events.surveys.models.surveys),
submitter_all
                                                                                                       (in-
                  dico.modules.events.abstracts.settings.AllowEditingTyprey_id (indico.modules.events.surveys.models.items.SurveyItem
                  attribute), 165
                                                                                                                                      attribute), 248
                                                                                                       (in- survey_id (indico.modules.events.surveys.models.items.SurveyQuestion
submitter_authors
                   dico.modules.events.abstracts.settings.AllowEditingType attribute), 249
                                                                                                                   survey_id (indico.modules.events.surveys.models.items.SurveySection
                  attribute), 165
submitter_id (indico.modules.events.abstracts.models.abstracts.Adminionete), 250
                                                                                                                   survey_id (indico.modules.events.surveys.models.items.SurveyText
submitter_id(indico.modules.events.papers.models.revisions.PapættRibuixi)y250
                   attribute), 202
                                                                                                                   survey_id(indico.modules.events.surveys.models.submissions.SurveySu
submitter_primary
                                                                                                       (in-
                                                                                                                                      attribute), 251
                   dico.modules.events.abstracts.settings.AllowEditingTyprevAnswer
                                                                                                                                                                        (class
                                                                                                                                                                                                     in
                   attribute), 165
                                                                                                                                      dico.modules.events.surveys.models.submissions),
SubmitterFirstNamePlaceholder
                                                                                         (class
                   indico.modules.events.abstracts.placeholders),
                                                                                                                   SurveyItem
                                                                                                                                                                    (class
                                                                                                                                                                                                                            in-
                                                                                                                                                                                                    in
                                                                                                                                      dico.modules.events.surveys.models.items),
                                                                                                                                      248
SubmitterLastNamePlaceholder (class in in-
                   dico.modules.events.abstracts.placeholders),
                                                                                                                   SurveyItemType
                                                                                                                                                                            (class
                                                                                                                                                                                                        in
                                                                                                                                                                                                                            in-
                   162
                                                                                                                                      dico.modules.events.surveys.models.items),
SubmitterNamePlaceholder
                                                                           (class
                                                                                                                                      248
                  dico.modules.events.abstracts.placeholders),
                                                                                                                   SurveyQuestion
                                                                                                                                                                            (class
                                                                                                                                                                                                        in
                                                                                                                                                                                                                            in-
                                                                                                                                      dico.modules.events.surveys.models.items),
submitters (indico.modules.events.contributions.models.contributiO48s.Contribution
                   attribute), 172
                                                                                                                   SurveySection
                                                                                                                                                                          (class
                                                                                                                                                                                                      in
                                                                                                                                                                                                                            in-
SubmitterTitlePlaceholder (class
                                                                                                        in-
                                                                                                                                      dico.modules.events.surveys.models.items),
```

	249				telepho	ne (indico.modu	les.rb.mod	els.rooms.Roo	om at-
SurveyS	State	(class	in	in-		tribute), 292			
	dico.modules.e	vents.surveys.	models.survey	(s),		R (built-in varial			
	247					(indico.modules.	attachmen	ts.preview.Pre	eviewer
	Submission	(class	in	in-		attribute), 288			
	dico.modules.e [.] 251	vents.surveys.	models.submi.	ssions)		E (indico.module attribute), 288	s.attachme	nts.preview.In	nagePreviewer
SurveyI	ext	(class	in	in-	TEMPLAT	E (indico.module	s.attachme	nts.preview.P	DFPreviewer
	dico.modules.e	vents.surveys.	models.items)	,		attribute), 288			
	250						s.designer.	models.image	s.DesignerImageFile
	metable_en			in-		attribute), 317	··	7 7	
	dico.modules.e [.] 256					dico.core.signals.	plugin), 89		in-
		o.modules.ever	nts.registratio	n.mode		i <u>on</u> h Regist) ati <b>in</b> a	lico.core.pl	lugins.Indicol	Plugin
	method), 215			_		method), 79			
		nodules.event	s.models.pers	ons.Ev			dules.desi	gner.models.ir	nages.DesignerImageFi
	method), 129	(in	m o dul o	:		attribute), 317			(:
_	e_fields dico.modules.u	(in sars modals u	module	ın-		e_kwargs dica madulas ava	nts logs rei	idarars Evant	(in- LogRendererBase
synced_		sers.moueis.u	3673), 270	(in-		attribute), 189	ius.iogs.rei	iderers.Eveni	LogKendererbase
_	dico.modules.u	sers.models.u	sers.User			e_kwargs			(in-
	tribute), 275		30.3.030.		_	dico.modules.eve	nts.logs.rei	nderers.Simpl	`
synced_				(in-		attribute), 189	G	<i>T</i>	
	dico.modules.u	sers.models.u	sers.User	at-	templat				(in-
	tribute), 275					dico.modules.eve	nts.logs.rer	iderers.Email	Renderer
	nize_data(			(in-		attribute), 188			
	dico.modules.u	sers.models.u	sers.User		templat				(in-
	method), 275						nts.logs.rei	iderers.Event	LogRendererBase
	app_type	1.1. 1	04 4	(in-		attribute), 189			<i>(</i> •
	dico.core.oauth	ı.models.appli	cations.OAuth	ıApplı			ta laaa	. danana Cimal	(in-
	<i>attribute</i> ), 307 _NOTICES_UR	T (built in va	riable) 52			dico.modules.eve attribute), 189	nis.iogs.rer	iaerers.Simpi	eKenaerer
SystemA		(class	in	in-	TEMPLAT				(in-
_	dico.core.oauth	*		· · ·		dico.modules.atta	ichments.p	review.Previev	*
Т						attribute), 288			
-						ervationCon			e (in
TargetA	bstractIDP	laceholde	r (class in	in-		module indico.mo			
	dico.modules.e [.] 162	vents.abstract	s.placeholder:	s),		ervationOcc dico.modules.rb.u	ıtil), 301		
	bstractTit indico.modules					lico.modules.even attribute), 224	ts.registrai	tion.models.it	ems.RegistrationFormIte
	162		<i>T</i>	- //	text(ind	lico.modules.even	ts.surveys.	models.items.	SurveyItemType
TargetS	SubmitterFi	rstNamePl	aceholder			attribute), 248			
	(class	in		in-			ules.events	.sessions.mod	lels.sessions.Session
	dico.modules.e	vents.abstract	s.placeholder:	s),		attribute), 241			
	163						ules.events	.timetable.mo	dels.breaks.Break
=	SubmitterLa		ceholder			attribute), 254	. in dia a sus	h forms folds	) 226
	(class	in		in-	TextPre	tField(class in	n inaico.we (class	vo.jorms.jieias in	in-
	dico.modules.e [.] 163	vents.abstract	s.placeholder.	s),		viewei dico.modules.atta			<i>111</i> -
	163 SubmitterNa	maDlagaha	lder (class	in		indico.modules.ei	_		nt at-
	indico.modules					tribute), 127			
	163	.c.c.ms.wosHu	г. Б.р.шеснош	,	themes(	indico.modules.e attribute), 144, 20		gs.ThemeSett	ingsProxy

```
ThemeSettingsProxv
                                                (class
                                                                                                    dico.modules.events.contributions.models.subcontributions.SubCo
                                                                  in
              dico.modules.events.settings), 144, 206
                                                                                                    attribute), 178
ticket_on_email
                                                                             (in- timetable entry created
                                                                                                                                           (in
                                                                                                                                                     module
                                                                                                                                                                    in-
              dico.modules.events.registration.models.forms.RegistrationRdico.core.signals.event), 87
              attribute), 221
                                                                                      timetable_entry_deleted
                                                                                                                                                     module
                                                                                                                                                                    in-
                                                                             (in-
                                                                                                    dico.core.signals.event), 87
ticket on event page
              dico.modules.events.registration.models.forms.Registrationablorm_entry_updated (in
                                                                                                                                                     module
                                                                                                                                                                    in-
                                                                                                    dico.core.signals.event), 87
              attribute), 221
ticket_on_summary_page
                                                                             (in- TimetableEntry
                                                                                                                                (class
                                                                                                                                                                    in-
                                                                                                                                                     in
              dico.modules.events.registration.models.forms.RegistrationFdira.modules.events.timetable.models.entries),
              attribute), 221
ticket_template
                                                                             (in- TimetableEntryType
                                                                                                                                      (class
                                                                                                                                                                    in-
              dico.modules.events.registration.models.forms.RegistrationFdico.modules.events.timetable.models.entries),
              attribute), 221
                                                                                                    255
                                                                             (in-timezone (indico.modules.categories.models.categories.Category
ticket_template_id
              dico.modules.events.registration.models.forms.RegistrationFattnibute), 266
                                                                                      timezone (indico.modules.events.models.events.Event
              attribute), 221
ticket_uuid(indico.modules.events.registration.models.registrationts:Registrationts
                                                                                      timezone (indico.web.forms.fields.IndicoDateTimeField
              attribute), 215
tickets enabled
                                                                             (in-
                                                                                                    attribute), 340
              dico.modules.events.registration.models.forms.RegistrationEorm (indico.web.forms.fields.OccurrencesField
                                                                                                    attribute), 341
time (indico.modules.events.timetable.reschedule.ReschedutlaMedeone_field
                                                                                                                                                                   (in-
              attribute), 258
                                                                                                    dico.web.forms.fields.IndicoDateTimeField
                                                                                                    attribute), 340
TimeDeltaField (class in indico.web.forms.fields),
                                                                                      timezone field
                                                                                                                                                                   (in-
\verb|timeline| (indico. modules. events. papers. models. revisions. Paper Revisions web. forms. fields. Occurrences Field in the contraction of the
                                                                                                                                                                    at-
              attribute), 202
                                                                                                    tribute), 341
                                                                             (in-title (indico.modules.attachments.models.attachments.Attachment
timeline_item_type
              dico.modules.events.models.reviews.ProposalCommentMixinttribute), 282
              attribute), 133
                                                                                      \verb|title| (indico.modules.attachments.models.folders.AttachmentFolder)|
timeline_item_type
                                                                             (in-
                                                                                                    attribute), 285
              dico.modules.events.models.reviews.ProposalReviewMixi(indico.modules.categories.models.categories.Category
              attribute), 134
                                                                                                    attribute), 266
timeline_item_type
                                                                             (in-title (indico.modules.designer.models.templates.DesignerTemplate
              dico.modules.events.papers.models.reviews.PaperJudgmentPatrxibute), 318
              attribute), 199
                                                                                      \verb+title+ (indico.modules.events.abstracts.models.abstracts.Abstract
TIMELINE_TYPE
                                                                             (in-
                                                                                                    attribute), 147
              dico.modules.events.papers.models.reviews.PaperRexiève (indico.modules.events.abstracts.models.email_templates.AbstractE
              attribute), 199
                                                                                                    attribute), 151
times changed (in module indico.core.signals.event), title (indico.modules.events.abstracts.models.review questions.Abstract
                                                                                                    attribute), 154
timestamp (indico.modules.events.agreements.models.agreements.indicementules.events.contributions.models.contributions.Contributions.
              attribute), 167
                                                                                                    attribute), 172
timestamp (indico.modules.events.payment.models.transactions:RinydientiFunduslestionents.contributions.models.fields.ContributionFields
              attribute), 208
                                                                                                    attribute), 173
timestamp (indico.modules.rb.models.reservation_edit_logs.tReservation.Edit_logs.events.contributions.models.subcontributions.SubC
              attribute), 300
                                                                                                    attribute), 178
timetable_buttons
                                             (in
                                                          module
                                                                              in- title (indico.modules.events.layout.models.menu.MenuEntry
              dico.core.signals.event), 87
                                                                                                    attribute), 184
timetable_entries
                                                                                     title (indico.modules.events.models.events.Event at-
                                                                             (in-
              dico.modules.events.models.events.Event
                                                                                                    tribute), 127
              attribute), 127
                                                                                      \verb|title| (indico.modules.events.models.persons.PersonLinkBase|
timetable_entry
                                                                             (in-
                                                                                                    attribute), 130
```

title (indico.modules.events.models.reviews.ProposalGroupPipers) attribute), 133	y(indico.modules.users.models.users.PersonMixin attribute), 272
· · · · · · · · · · · · · · · · · · ·	
title (indico.modules.events.papers.models.papers.Papertitle_attribute), 197	_attr (indico.modules.events.models.reviews.ProposalGroupProx attribute), 133
title (indico.modules.events.papers.models.review_questions.Rep	perReview Question (in-
attribute), 198	dico.modules.attachments.models.attachments.Attachment
title (indico.modules.events.registration.models.form_fields.Regis	
	_with_group (in-
title (indico.modules.events.registration.models.form_fields.Regis	
attribute), 219	attribute), 260
title (indico.modules.events.registration.models.forms.Regis <u>tr</u> atic	
attribute), 221	dico.modules.events.papers.models.reviews.PaperAction
title (indico.modules.events.registration.models.items.PersonalDe	
	_corrected (in-
title (indico.modules.events.registration.models.items.Registratio attribute), 224	on <b>ktormflunt</b> ules.events.papers.models.revisions.PaperRevisionState attribute), 202
$\verb title  (indico.modules.events.registration.models.items.Re\\  \textbf{gistratio} $	utF&)m(PadisanulDdutleSecvients.surveys.models.items.SurveyItem
attribute), 225	method), 248
title (indico.modules.events.registration.models.items.Registration	wtF&)rn(Seditionmodules.events.surveys.models.items.SurveyQuestion
attribute), 226	method), 249
title (indico.modules.events.registration.models.items.Registration	
attribute), 227	method), 250
title (indico.modules.events.requests.base.RequestDefinitionBase	
attribute), 239	method), 250
$\verb title  (indico.modules.events.sessions.models.blocks.Sessian \textit{Block} slocks.Sessian \textit{Block} sloc$	
attribute), 243	dico.core.oauth.models.tokens), 309
$\verb title  (indico.modules.events.sessions.models.sessions.Sessiop_lessions)                                      $	
attribute), 241	dico.modules.rb.models.map_areas.MapArea
$\verb title  (indico.modules.events.surveys.models.items.SurveyItem $	attribute), 296
attribute), 248 top_le	eft_longitude (in-
$\verb+title+ (indico.modules.events.surveys.models.items. Survey Question and the property of th$	
attribute), 249	attribute), 296
title (indico.modules.events.surveys.models.items.SurveySection	
	(class in indico.modules.events.tracks.models.tracks),
title (indico.modules.events.surveys.models.items.SurveyText	259
	(indico.modules.events.abstracts.models.reviews.AbstractReview
title (indico.modules.events.surveys.models.surveys.Survey	
	(indico.modules.events.contributions.models.contributions.Contrib
title (indico.modules.events.timetable.models.breaks.Break	
· ·	attribute), 172
	_group(indico.modules.events.tracks.models.tracks.Track
title(indico.modules.events.tracks.models.tracks.Track	attribute), 260
	_group_id (in-
title (indico.modules.news.models.news.NewsItem at-	dico.modules.events.tracks.models.tracks.Track
tribute), 327	attribute), 260
$\verb title  (indico.modules.rb.models.room_attributes.RoomAttribute \verb k_i ) $	
attribute), 292	attribute), 156
$\verb title  (indico.modules.search.result_schemas.Attachment   \textit{ResultSchemas}. \\$	$\underline{h}$ ė $m$ $a$ (indico.modules.events.contributions.models.contributions. $Co$
attribute), 72	attribute), 172
title (indico.modules.search.result_schemas.ContributionResudtS	chemindico.modules.events.tracks.models.principals.TrackPrincipals.
attribute), 72	attribute), 261
title (indico.modules.search.result_schemas.EventNoteResultSche	
attribute), 73	dico.modules.events.util), 141
title (indico.modules.search.result_schemas.EventResult\( \frac{\schema}{\schema} \)	
attribute), 71	dico.modules.events.util), 141
ши юше ј, 71	aico.mounies.evenis.uiij, 171

```
TrackPrincipal
                                                                                     (class
                                                                                                                                                                            type (indico.modules.events.models.static_list_links.StaticListLink
                             dico.modules.events.tracks.models.principals),
                                                                                                                                                                                                          attribute), 137
                                                                                                                                                                             type (indico.modules.events.papers.models.review questions.PaperReview
TrackRoleField
                                                                                     (class
                                                                                                                                                                                                          attribute), 198
                                                                                                                               in
                                                                                                                                                             in-
                            dico.modules.events.abstracts.fields), 330
                                                                                                                                                                             type(indico.modules.events.papers.models.reviews.PaperReview
transaction (indico.modules.events.registration.models.registrationts:Registration)
                                                                                                                                                                             type (indico.modules.events.registration.models.form fields.RegistrationF
                            attribute), 215
transaction id
                                                                                                                                                           (in-
                                                                                                                                                                                                          attribute), 217
                            dico.modules.events.registration.models.registrationspresidentionodules.events.registration.models.form_fields.RegistrationF
                            attribute), 215
                                                                                                                                                                                                          attribute), 219
TransactionAction
                                                                                              (class
                                                                                                                                   in
                                                                                                                                                                            type (indico.modules.events.registration.models.items.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.RegistrationFormItems.Registrati
                                                                                                                                                              in-
                            dico.modules.events.payment.models.transactions),
                                                                                                                                                                                                          attribute), 224
                                                                                                                                                                             \verb|type| (indico.modules.events.registration.models.items.RegistrationFormPerror Perror Perr
TransactionStatus
                                                                                              (class
                                                                                                                                   in
                                                                                                                                                              in-
                                                                                                                                                                                                          attribute), 225
                            dico.modules.events.payment.models.transactions), ype(indico.modules.events.registration.models.items.RegistrationFormSet)
                             208
                                                                                                                                                                                                          attribute), 226
TransactionStatusTransition (class in in-type (indico.modules.events.registration.models.items.RegistrationFormTe
                            dico.modules.events.payment.models.transactions),
                                                                                                                                                                                                          attribute), 227
                                                                                                                                                                             type (indico.modules.events.requests.models.requests.Request
TransientMenuEntry
                                                                                                 (class
                                                                                                                                     in
                                                                                                                                                              in-
                                                                                                                                                                                                          attribute), 237
                            dico.modules.events.layout.models.menu),
                                                                                                                                                                             \verb|type| (indico.modules.events.sessions.models.principals.SessionPrincipal)|
                                                                                                                                                                                                          attribute), 244
                                                                                                                                                                            type (indico.modules.events.sessions.models.sessions.Session
translation_domain
                                                                                                                                                           (in-
                            dico.core.plugins.IndicoPlugin
                                                                                                                                        attribute).
                                                                                                                                                                                                          attribute), 241
                             79
                                                                                                                                                                             type (indico.modules.events.surveys.models.items.SurveyItem
translation_path
                                                                                                                                                           (in-
                                                                                                                                                                                                          attribute), 248
                             dico.core.plugins.IndicoPlugin
                                                                                                                                                                            type(indico.modules.events.surveys.models.items.SurveyQuestion)
                                                                                                                                        attribute),
                                                                                                                                                                                                          attribute), 249
type (indico.modules.attachments.models.attachments.Attachmentindico.modules.events.surveys.models.items.SurveySection
                            attribute), 282
                                                                                                                                                                                                          attribute), 250
type (indico.modules.attachments.models.principals.AttachmentHohdhieBninadphds.events.surveys.models.items.SurveyText
                            attribute), 286
                                                                                                                                                                                                          attribute), 250
type (indico.modules.attachments.models.principals.Attachments.models.entries.TimetableEntry
                             attribute), 287
                                                                                                                                                                                                          attribute), 255
type (indico.modules.categories.models.principals.Category/pin(ipdlco.modules.events.tracks.models.principals.TrackPrincipal
                            attribute), 267
                                                                                                                                                                                                          attribute), 261
{\tt type} \ (indico.modules.designer.models.templates.Designer \textit{Template} indico.modules.rb.models.blocking\_principals.BlockingPrincipal
                             attribute), 318
                                                                                                                                                                                                          attribute), 295
type (indico.modules.events.agreements.models.agreements.Agree@mditto.modules.search.result_schemas.AttachmentResultSchema
                            attribute), 167
                                                                                                                                                                                                          attribute), 72
type (indico.modules.events.contributions.models.contributionsequindivibution dules.search.result_schemas.ContributionResultSchema
                             attribute), 172
                                                                                                                                                                                                          attribute), 72
type (indico.modules.events.contributions.models.principalss/Gan(rinblicia:nRndubipasearch.result_schemas.EventNoteResultSchema
                            attribute), 176
                                                                                                                                                                                                          attribute), 73
\verb|type| (indico.modules.events.layout.models.menu.MenuEnttype| (indico.modules.search.result\_schemas.EventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.eventResultSchemas.event
                             attribute), 184
                                                                                                                                                                                                          attribute), 71
type(indico.modules.events.logs.models.entries.EventLogEntpe(indico.modules.search.result\_schemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.SubContributionResultSchemas.Sub
                            attribute), 187
                                                                                                                                                                                                          attribute), 72
                                       (indico.modules.events.models.events.Event type (indico.modules.vc.models.vc_rooms.VCRoom at-
type
                            attribute), 127
                                                                                                                                                                                                          tribute), 312
type (indico.modules.events.models.principals.EventPrincipale_
                                                                                                                                                                                                       (indico.modules.events.models.events.Event at-
                            attribute), 131
                                                                                                                                                                                                          tribute), 127
type (indico.modules.events.models.settings.EventSettingPrincipalchanged (in module indico.core.signals.event),
```

attribute), 136

type_i	$\verb d (indico.modules.events.contributions.mod $	els.cor	rtribationes		(in	module	in-
	attribute), 172			dico.modules.eve	nts.abstrac	ts.operations),	,
type_i	$\verb d (indico.modules.events.sessions.models.se$	essions	.Session	157			
	attribute), 241		update	_abstract_co	mment()	(in module	in-
tzinfo	(indico.modules.categories.models.categoriattribute), 266	ies.Cai	tegory	dico.modules.eve	nts.abstrac	ts.operations),	,
tzinfo	(indico.modules.events.models.events.Eventribute), 127	et at-	update	_abstract_re dico.modules.eve		(in module	in-
tzinfo	(indico.web.forms.fields.IndicoDateTime)	Field		157		<b>F</b> ,,	,
	attribute), 340		update	_break_entry	() (in	module	in-
U			-	dico.modules.eve.			,
under_	review (indico.modules.events.abstracts.m	nodels.	. <i>તેમ્હાને <del>વ</del>દા</i> જ.	ABstræGPHblicSta dico.modules.cate	te (in	module	in-
	attribute), 147	·	undata	_comment()	egories.ope (in	module	in-
	mpersonate_user() (in module dico.modules.auth.util), 304		upuace	dico.modules.eve	*		111-
unique	_columns	(in-		203	() (:	11.	•
	dico.modules.attachments.models.principa attribute), 286	ls.Atta	chmentFo	dico.modules.eve	() (in nts.papers.		in-
unique	_columns	(in-		203			
	dico. modules. attachments. models. principal attachments and attachments and attachments and attachments attachments and attachments attachment atta	ls.Atta	chinentP7	ine patribution	n () ( <i>ir</i>		in-
	attribute), 287			dico.modules.eve	nts.contrib	utions.operatio	ons),
unique	_columns	(in-		179			
	dico. modules. categories. models. principals.	.Categ	orpPrinci	<i>pd</i> ata_associ	ation()		(in-
	attribute), 267			dico.modules.vc.p	olugins.VC	PluginMixin	
unique	_columns	(in-		method), 316			
	$dico. modules. events. contributions. models. \\ part of the contribution of the cont$	princip	odlP.Cohfr	ibdaiōnPrincipal°	m()		(in-
	attribute), 176			dico.modules.vc.p	olugins.VC	PluginMixin	
unique	_columns	(in-	_	method), 316			
	dico. modules. events. models. principals. Events and the substitution of the substi	ntPrin	<i>cupa</i> date	_event()	(in	module	in-
	attribute), 131			dico.modules.eve	_		
unique	_columns			_event_label			in-
	dico.modules.events.sessions.models.prince	ipals.S	SessionPri	ndipalmodules.eve	nts.operati	ons), 138	
	attribute), 244		update	_event_prote			in-
unique	_columns	(in-		dico.modules.eve	_		
	dico.modules.events.tracks.models.principe attribute), 261	als.Tra	ıckPrintip	alevent_type( dico.modules.eve	) (in nts.operati	module ions), 138	in-
unique	_columns	(in-	update	_object_prin	cipals()	) (in module	e in-
	dico.modules.rb.models.blocking_principal	ls.Bloc	ckingPrinc	ridigo.modules.eve	nts.util), 14	41	
	attribute), 295		update	_paper_templ	ate()	(in module	in-
unique	_links(indico.modules.attachments.mode	els.fola	lers.Attacl	ndiga.modules.eve	nts.papers.	operations), 20	03
	attribute), 285		update	_person()	(in	module	in-
unique	_links (indico.modules.events.notes.mode attribute), 192	els.note	es.EventN	o <mark>di</mark> co.modules.eve 210	nts.persons	s.operations),	
unit_n	$\verb ames  (indico.web.forms.fields.RelativeDelta) $	aField	update	_program()  dico.modules.eve	(in nts tracks o	module	in-
	attribute), 346	E: .1.1	undata	_reference_t		operations), 20 (in module	in-
	ames (indico.web.forms.fields.TimeDeltal attribute), 340	ғиена		dico.modules.eve	nts.operati	ions), 139	
unlock	_event() (in module	in-	update	_regform_ite	_		
	dico.modules.events.operations), 138			ule indico.module		-	
_	(indico.modules.events.registration.models. attribute), 217		·	dico.modules.eve	(in nts.papers.	module .operations),	in-
unstyl	ed (indico.modules.events.abstracts.settings	s.BOA	LinkForma	a <b>2</b> 04			
=	attribute). 165		update	_reviewed_fo	r_track:	s() (in modul	le in-

```
dico.modules.events.abstracts.operations), 157
                                                                                    url_for_plugin() (in module indico.core.plugins),
update_reviewing_question() (in module in-
              dico.modules.events.operations), 139
                                                                                    url for register()
                                                                                                                                   (in
                                                                                                                                               module
                                                                                                                                                                 in-
update_reviewing_roles()
                                                                                                  dico.modules.auth.util), 304
                                                     (in module
                                                                             in-
              dico.modules.events.papers.operations), 204
                                                                                    url_rule_to_angular()
                                                                                                                                       (in
                                                                                                                                                 module
                                                                                                                                                                 in-
update scopes()
                                                                                                  dico.modules.events.registration.util), 229
                                                                            (in-
              dico.core.oauth.models.applications.OAuthApplicationUs\articlercharkcut (indico.modules.events.models.events.Event
             method), 307
                                                                                                   attribute), 127
update_session()
                                           (in
                                                         module
                                                                             in-
                                                                                    url_template(indico.modules.events.models.references.ReferenceType
              dico.modules.events.sessions.operations),
                                                                                                  attribute), 132
                                                                                    url_to_static_filename()
                                                                                                                                           (in module
update_session_block()
                                                                                                   dico.modules.events.static.util), 263
                                                    (in
                                                                             in-
                                                                                    urn (indico.modules.events.models.references.ReferenceModelBase
              dico.modules.events.sessions.operations),
                                                                                                  attribute), 132
update_session_coordinator_privs()
                                                                                    use_count (indico.core.oauth.models.tokens.OAuthToken
                                          module
                                                                             in-
                                                                                                   attribute), 309
              dico.modules.events.sessions.operations),
                                                                                    use_count (indico.core.oauth.models.tokens.TokenModelBase
              244
                                                                                                  attribute), 310
update_state()
                                                                                    USE PROXY (built-in variable), 55
              dico.modules.events.registration.models.registrationseRegistrationindico.modules.users.models.users), 272
             method), 215
                                                                                    user(indico.core.oauth.models.applications.OAuthApplicationUserLink)
update_subcontribution()
                                                      (in module
                                                                                                   attribute), 307
              dico.modules.events.contributions.operations),
                                                                                    user (indico.core.oauth.models.tokens.OAuthToken at-
                                                                                                  tribute), 309
                                                                                    user (indico.modules.attachments.models.attachments.Attachment
update_team_members()
                                                  (in
                                                            module
                                                                             in-
              dico.modules.events.papers.operations),
                                                                                                   attribute), 282
                                                                                    {\tt user} (indico.modules.attachments.models.attachments.AttachmentFile
update_timetable_entry()
                                                                                                   attribute), 283
                                                     (in module
                                                                             in-
             dico.modules.events.timetable.operations),
                                                                                    \verb"user" (indico.modules. attachments. models. principals. Attachment Folder Principals. Attach
              256
                                                                                                   attribute), 286
update_timetable_entry_object()
                                                                                    user (indico.modules.attachments.models.principals.AttachmentPrincipal
              (in
                                          module
                                                                             in-
                                                                                                   attribute), 287
                                                                                    user (indico.modules.categories.models.principals.CategoryPrincipal
              dico.modules.events.timetable.operations),
                                                                                                   attribute), 267
update track()
                                        (in
                                                       module
                                                                                    user (indico.modules.events.abstracts.models.comments.AbstractCommen
                                                                             in-
             dico.modules.events.tracks.operations), 261
                                                                                                   attribute), 149
update track group()
                                                 (in
                                                            module
                                                                                    user (indico.modules.events.abstracts.models.email logs.AbstractEmailLo
              dico.modules.events.tracks.operations), 261
                                                                                                   attribute), 150
updated (in module indico.core.signals.category), 83
                                                                                    user (indico.modules.events.abstracts.models.reviews.AbstractReview
updated (in module indico.core.signals.event), 87
                                                                                                  attribute), 156
url (indico.modules.categories.models.categories.Categoryuser (indico.modules.events.agreements.models.agreements.Agreement
              attribute), 266
                                                                                                   attribute), 167
url (indico.modules.events.layout.models.menu.MenuEntryMixin (indico.modules.events.contributions.models.principals.Contribution
              attribute), 184
                                                                                                   attribute), 176
          (indico.modules.events.models.events.Event
                                                                            at- user (indico.modules.events.logs.models.entries.EventLogEntry
url
              tribute), 127
                                                                                                   attribute), 187
url (indico.modules.events.models.references.ReferenceModelBasendico.modules.events.models.persons.EventPerson
             attribute), 132
                                                                                                  attribute), 129
url
                 (indico.modules.news.models.news.NewsItem
                                                                                    user (indico.modules.events.models.principals.EventPrincipal
             attribute), 327
                                                                                                   attribute), 131
url_for_login()
                                                        module
                                                                                    \verb"user" (indico.modules.events.models.settings. Event Setting Principal
                                          (in
                                                                             in-
             dico.modules.auth.util), 304
                                                                                                   attribute), 136
url_for_logout()
                                           (in
                                                         module
                                                                                    user (indico.modules.events.notes.models.notes.EventNoteRevision
                                                                             in-
              dico.modules.auth.util), 304
                                                                                                   attribute), 192
```

```
user (indico.modules.events.papers.models.comments.PaperReviewCathribente), 156
                                                                                                             user_id(indico.modules.events.agreements.models.agreements.Agreements
                  attribute), 194
user (indico.modules.events.papers.models.competences.PaperCompetentiblete), 167
                  attribute), 195
                                                                                                             user_id(indico.modules.events.contributions.models.principals.Contribu
user (indico.modules.events.papers.models.reviews.PaperReview
                                                                                                                               attribute), 176
                 attribute), 200
                                                                                                             user_id(indico.modules.events.logs.models.entries.EventLogEntry
user (indico.modules.events.registration.models.registrations.Registraticibute), 187
                                                                                                             user_id(indico.modules.events.models.persons.EventPerson
                  attribute), 215
user (indico.modules.events.sessions.models.principals.SessionPrincipalbute), 129
                  attribute), 244
                                                                                                             user_id(indico.modules.events.models.principals.EventPrincipal
user (indico.modules.events.surveys.models.submissions.SurveySubmitsribute), 131
                                                                                                             user_id(indico.modules.events.models.settings.EventSettingPrincipal
                  attribute), 251
user (indico.modules.events.tracks.models.principals.TrackPrincipalattribute), 136
                                                                                                             user_id(indico.modules.events.notes.models.notes.EventNoteRevision
                 attribute), 261
user (indico.modules.rb.models.blocking_principals.BlockingPrincipattribute), 192
                  attribute), 295
                                                                                                             user_id(indico.modules.events.papers.models.comments.PaperReviewCo
user (indico.modules.search.result_schemas.AttachmentResultSchemattribute), 194
                                                                                                             user_id(indico.modules.events.papers.models.competences.PaperCompe
                  attribute), 72
user (indico.modules.search.result_schemas.EventNoteResultSchemattribute), 195
                  attribute), 73
                                                                                                             user_id(indico.modules.events.papers.models.reviews.PaperReview
user (indico.modules.users.models.settings.UserSetting
                                                                                                                               attribute), 200
                                                                                                             user_id(indico.modules.events.registration.models.registrations.Registra
                 attribute), 277
user_backref_name
                                                                                                  (in-
                                                                                                                               attribute), 215
                 dico.modules.events.abstracts.models.comments.AbstractCominditto.modules.events.sessions.models.principals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrincipals.SessionPrinci
                 attribute), 149
                                                                                                                               attribute), 244
user_backref_name
                                                                                                  (in- user_id (indico.modules.events.surveys.models.submissions.SurveySubm
                  dico.modules.events.papers.models.comments.PaperReviewattmibutet), 251
                 attribute), 194
                                                                                                             user_id(indico.modules.events.tracks.models.principals.TrackPrincipal
                                                                                                                               attribute), 261
user_competences
                                                                                                  (in-
                 dico.modules.events.papers.models.call_for_paperss@allFooRampdirso.modules.rb.models.blocking_principals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.BlockingPrincipals.Blo
                  attribute), 194
                                                                                                                               attribute), 295
user_data (indico.modules.auth.models.registration_requests:RegistrationRequests:users.models.affiliations.UserAffiliation
                 attribute), 303
                                                                                                                               attribute), 276
user_data (indico.modules.events.registration.models.registratioinsl RinglistraniodDhatsusers.models.emails.UserEmail
                                                                                                                                attribute), 276
                  attribute), 216
user_id(indico.core.oauth.models.applications.OAuthApplications.dianHink.modules.users.models.settings.UserSetting
                  attribute), 307
                                                                                                                               attribute), 277
user_id (indico.modules.attachments.models.attachmentsnAttexchriner(tindico.modules.users.models.suggestions.SuggestedCategory
                                                                                                                               attribute), 277
                  attribute), 282
user_id(indico.modules.attachments.models.attachmentsvAtterchinantEilindico.modules.events.layout.models.menu.MenuEntryType
                  attribute), 283
                                                                                                                               attribute), 185
user_id(indico.modules.attachments.models.principals.AttachmentsCildeiredinOipakref_name
                  attribute), 286
                                                                                                                               dico.modules.events.abstracts.models.comments.AbstractCommen
user_id(indico.modules.attachments.models.principals.Attachmentantinicipel), 149
                  attribute), 287
                                                                                                             user_modified_backref_name
user_id(indico.modules.auth.models.identities.Identity
                                                                                                                               dico.modules.events.papers.models.comments.PaperReviewComn
                  attribute), 303
                                                                                                                               attribute), 194
user_id (indico.modules.categories.models.principals.CategoryPnimoip(illndico.modules.rb.models.reservation_edit_logs.Reservation
                  attribute), 267
                                                                                                                               attribute), 300
user_id(indico.modules.events.abstracts.models.commentssAbstractComment
                                                                                                                                                              (in
                  attribute), 149
                                                                                                                                dico.modules.users.models.settings), 278
user_id (indico.modules.events.abstracts.models.email_logs:AbstractEtpailIndiEntmodules.events.abstracts.models.abstracts.Abstrac
                  attribute), 150
                                                                                                                               method), 147
user_id (indico.modules.events.abstracts.models.reviews.AbstractReviewngs (indico.core.plugins.IndicoPlugin at-
```

view_data(indico.modules.events.registration.models.form_fields.Regist

```
tribute), 79
                                                                                                                                                                                      value (indico.modules.rb.models.room_attributes.RoomAttributeAssociati
                                                                                                                                                                                                                     attribute), 293
user_settings_converters
                                                                                                                                                                   (in-
                             dico.core.plugins.IndicoPlugin
                                                                                                                                                attribute),
                                                                                                                                                                                      value (indico.modules.users.models.settings.UserSetting
                                                                                                                                                                                                                     attribute), 277
UserAffiliation
                                                                                             (class
                                                                                                                                                                      in-
                                                                                                                                                                                      vc\_room(indico.modules.vc.models.vc\_rooms.VCRoomEventAssociation)
                             dico.modules.users.models.affiliations), 276
                                                                                                                                                                                                                     attribute), 313
                                                                                                                                                                                      vc room attach form
UserEmail
                                                                                                                                                                                                                                                                                                                                                          (in-
                                                                                                                                                                      in-
                              dico.modules.users.models.emails), 276
                                                                                                                                                                                                                     dico.modules.vc.plugins.VCPluginMixin
users (indico.modules.events.abstracts.models.reviews.AbstractComateribVitashilitté
                                                                                                                                                                                      vc_room_form(indico.modules.vc.plugins.VCPluginMixin
                              attribute), 155
users (indico.modules.events.papers.models.reviews.PaperCommentAtitsilbilite), 316
                              attribute), 199
                                                                                                                                                                                       vc_room_id(indico.modules.vc.models.vc_rooms.VCRoomEventAssocia
                                                                                (class
UserSetting
                                                                                                                                                                      in-
                                                                                                                                                                                                                     attribute), 313
                                                                                                                                 in
                                                                                                                                                                                      VCPluginMixin (class in indico.modules.vc.plugins),
                              dico.modules.users.models.settings), 277
UserSettingsProxy
                                                                                                   (class
                                                                                                                                                                      in-
                              dico.modules.users.models.settings), 277
                                                                                                                                                                                      VCRoom (class in indico.modules.vc.models.vc_rooms),
                                                                           (class
UserTitle
                                                                                                                                                                                                                     312
                                                                                                                                                                      in-
                              dico.modules.users.models.users), 275
                                                                                                                                                                                      VCRoomError, 316
uuid (indico.modules.events.abstracts.models.abstracts.AbMCAcomEventAssociation
                                                                                                                                                                                                                                                                                                                                                             in-
                                                                                                                                                                                                                     dico.modules.vc.models.vc rooms), 312
uuid (indico.modules.events.agreements.models.agreements.AgreemikithkType
                                                                                                                                                                                                                                                                                (class
                                                                                                                                                                                                                                                                                                                            in
                                                                                                                                                                                                                                                                                                                                                             in-
                              attribute), 167
                                                                                                                                                                                                                     dico.modules.vc.models.vc rooms), 313
uuid (indico.modules.events.models.static_list_links.Static_List_kinkmNotFoundError, 316
                              attribute), 137
                                                                                                                                                                                      VCRoomStatus
                                                                                                                                                                                                                                                                                                                                                             in-
uuid (indico.modules.events.registration.models.invitations.Registratibinbuvioaltibas.vc.models.vc rooms), 313
                              attribute), 222
                                                                                                                                                                                      venue_name (indico.modules.events.contributions.models.subcontribution
uuid (indico.modules.events.registration.models.registrations.Registraticibute), 178
                                                                                                                                                                                       venue_name(indico.modules.search.result_schemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.LocationResultSchemas.ResultSchemas.LocationResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchemas.ResultSchema
                              attribute), 215
uuid (indico.modules.events.surveys.models.surveys.Survey
                                                                                                                                                                                                                    attribute), 73
                              attribute), 247
                                                                                                                                                                                      verbose_name(indico.modules.rb.models.rooms.Room
                                                                                                                                                                                                                     attribute), 292
V
                                                                                                                                                                                      verbose_title
                                                                                                                                                                                                                                                                                                                                                          (in-
valid (indico.modules.rb.models.reservation_occurrences.Reservationidesessesses.abstracts.models.abstracts.Abstract
                                                                                                                                                                                                                     attribute), 147
                              attribute), 301
                                                                                                                                                                                   verbose_title
valid currencies
                                                                                                                                                                   (in-
                             dico. modules. events. payment. plugins. Payment Plugin Mixin \ dico. modules. events. contributions. models. contributions. Contributions. The property of 
                                                                                                                                                                                                                     attribute), 172
value(indico.modules.categories.models.settings.CategorySettingse_title
                                                                                                                                                                                                                     dico.modules.events.papers.models.papers.Paper
                              attribute), 268
value (indico.modules.events.abstracts.models.review_ratings.Abstracting
                                                                                                                                                                                      version of (indico.modules.attachments.models.attachments.Attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachments.attachme
                              attribute), 154
value (indico.modules.events.contributions.models.references.ContributionMeference
                                                                                                                                                                                       version_of (indico.modules.designer.models.images.DesignerImageFile
                              attribute), 177
value (indico.modules.events.contributions.models.references.SubContributednReference
                                                                                                                                                                                       version_of (indico.modules.events.layout.models.images.ImageFile
                              attribute), 177
                                                                                                                                                                                                                     attribute), 183
value (indico.modules.events.models.references.EventReference
                                                                                                                                                                                      versioned_data
                              attribute), 131
\verb|value| (indico.modules.events.models.references. Reference Model Bas dico.modules.events.registration.models.form\_fields. Registration Based in the property of the proper
                                                                                                                                                                                                                     attribute), 218
                              attribute), 132
\verb|value| (indico.modules.events.models.settings.EventSetting \verb|versioned_data||) |
                                                                                                                                                                                                                     dico.modules.events.registration.models.form_fields.Registration1
                              attribute), 135
```

Index 479

attribute), 218

value (indico.modules.events.papers.models.review_ratings.PaperReviewPitting18

attribute), 198

view_data(indico.modules.events.registration.mod attribute), 219	lels.formi_figlels.	Registocation dilas reversion dil Data Esifik des. Track Role Field attribute), 331
	lels.ite <b>ms.Reg</b> isi	t(attibute), 331 t(attibute), 331 attribute), 331
	lels.ite <b>ms.Rggi</b> si	t <b>(intibing om mardelessoenceliD s.tacSeto ileut</b> ions.fields.SubContributionPerson
attribute), 225		attribute), 331
view_data(indico.modules.events.registration.mod attribute), 226	lels.item <b>s.Rggi</b> si	t <b>(intibinGommBdetsiew</b> ents.fields.EventPersonLinkListField attribute), 327
	dels.items.Ræeis:	t <b>(intibing ommilieks</b> ts.events.fields.PersonLinkListFieldBase
attribute), 227		attribute), 328
visibility(indico.modules.categories.models.cat	tegoriem.Cottego	
attribute), 266	0 20	attribute), 328
visibility(indico.modules.events.abstracts.mode	els.commientseAl	b(sindiatComodulus.events.papers.fields.PaperEmailSettingsField
attribute), 149		attribute), 333
visibility(indico.modules.events.abstracts.mode	els.reviorislAbst	kantRevieno dules.events.sessions.fields.SessionBlockPersonLinkLis
attribute), 156		attribute), 333
visibility(indico.modules.events.contributions.r	nodels:sfiieliks:«Go	
attribute), 173		tribute), 345
visibility (indico.modules.events.models.events. attribute), 127	<i>Event</i> widget	(indico.web.forms.fields.FileField attribute), 342
visibility(indico.modules.events.papers.models	.commentsl.Pape	erRevie <b>v/tidinmwrt</b> b.forms.fields.HiddenFieldList
attribute), 195		attribute), 336
visibility (indico.modules.events.papers.models attribute), 200	reviews Ra <b>ger</b> K	Review (indico.web.forms.fields.IndicoDateField attribute), 345
	(in- widget	(indico.web.forms.fields.IndicoDateTimeField
dico.modules.categories.models.categories.	Category	attribute), 340
attribute), 266	widget	(indico.web.forms.fields.IndicoEmailRecipientsField
visible()(indico.modules.events.layout.util.Menu	ıEntryData	attribute), 348
method), 186	widget	(indico.web.forms.fields.IndicoEnumRadioField
	(in-	attribute), 341
	<i>Category</i> dget	(indico.web.forms.fields.IndicoEnumSelectField
attribute), 266		attribute), 341
W	widget	attribute), 345
warning (indico.modules.categories.models.categor attribute), 267	ries.Ev <b>enitMes</b> sa	agk <b>imdiao</b> .web.forms.fields.IndicoMarkdownField attribute), 345
was_survey_submitted() (in module dico.modules.events.surveys.util), 253	in- widget	(indico.web.forms.fields.IndicoPalettePickerField attribute), 339
WEEK (indico.modules.rb.models.reservations.Repeat	Frequenia daet	
attribute), 296	requency 5	attribute), 338
	(in- widget	(indico.web.forms.fields.IndicoProtectionField
dico.web.forms.fields.IndicoWeekDayRepeti	`	attribute), 345
attribute), 347		(indico. web. forms. fields. Indico Query Select Multiple Checkbox
WEEK_DAY_NUMBER_CHOICES	(in-	attribute), 345
dico.web.forms.fields.IndicoWeekDayRepettattribute), 346	<i>itionField</i> dget	(indico.web.forms.fields.IndicoRadioField attribute), 334
widget (indico.modules.categories.fields.CategoryF	<i>Geld</i> widget	(indico.web.forms.fields.IndicoSelectMultipleCheckboxField
attribute), 333	icia 5	attribute), 334
widget (indico.modules.events.abstracts.fields.Abstr	<i>ractFielld</i> _dget	(indico.web.forms.fields.IndicoStaticTextField
attribute), 328		attribute), 338
widget (indico.modules.events.abstracts.fields.Abstractribute), 329	ractPerรอกไรเลิน	Lippigg.web.forms.fields.IndicoTagListField at- tribute), 339
auriome), 329 widget (indico.modules.events.abstracts.fields.Emai	ilRuleIviἀΦ₩£	
attribute), 330		attribute), 348

```
widget (indico.web.forms.fields.IndicoWeekDayRepetitionField
                 attribute), 347
                                                                                                         WPJinjaMixinPlugin (class in indico.core.plugins),
widget (indico.web.forms.fields.MultipleItemsField at-
                                                                                                                           80
                 tribute), 343
widget
                            (indico.web.forms.fields.MultiStringField
                 attribute), 342
                                                                                                         XELATEX PATH (built-in variable), 54
widget (indico.web.forms.fields.OccurrencesField at-
                                                                                                         Z
                 tribute), 341
{\tt widget} \ (\textit{indico.web.forms.fields.OverrideMultipleItemsField} \\ \textbf{ipGeneratorMixin}
                                                                                                                                                                  (class
                                                                                                                                                                                         in
                                                                                                                                                                                                         in-
                 attribute), 343
                                                                                                                           dico.modules.events.util), 139
widget
                     (indico.web.forms.fields.PrincipalField
                 tribute), 344
widget (indico.web.forms.fields.PrincipalListField at-
                 tribute), 344
widget (indico.web.forms.fields.RelativeDeltaField at-
                 tribute), 346
widget (indico.web.forms.fields.TimeDeltaField at-
                 tribute), 340
width (indico.modules.designer.pdf.TplData attribute),
                 319
width_cm
                                  (indico.modules.designer.pdf.TplData
                 attribute), 319
{\tt with\_title} \ (indico. modules. designer. placeholders. Registration Full Name No Title Placeholder) \\
                 attribute), 320
\verb|with_title| (indico.modules.designer.placeholders.RegistrationFullNameNoTitlePlaceholderB)| \\
                 attribute), 320
{\tt with\_title} \ (indico. modules. designer. placeholders. Registration Full Name No Title Placeholder College Stration Full Name No Title Full Name N
                 attribute), 321
\verb|with_title| (indico.modules.designer.placeholders.RegistrationFullNameNoTitlePlaceholderD)| |
                 attribute), 321
with\_title (indico.modules.designer.placeholders.RegistrationFullNamePlaceholder
                 attribute), 320
\verb|with_title| (indico.modules.designer.placeholders.RegistrationFullNamePlaceholderB)| \\
                 attribute), 320
\verb|with_title| (indico.modules.designer.placeholders.RegistrationFullNamePlaceholderC)| \\
                 attribute), 321
with title (indico.modules.designer.placeholders.RegistrationFullNamePlaceholderD
                 attribute), 321
withdraw()(indico.modules.events.requests.base.RequestDefinitionBase
                 class method), 239
withdraw abstract()
                                                           (in
                                                                         module
                                                                                                in-
                 dico.modules.events.abstracts.operations),
withdrawn (indico.modules.events.abstracts.models.abstracts.AbstractPublicState
                 attribute), 147
withdrawn (indico.modules.events.abstracts.models.abstracts.AbstractState
                 attribute), 148
withdrawn (indico.modules.events.registration.models.registrations.RegistrationState
                 attribute), 217
withdrawn (indico.modules.events.requests.models.requests.RequestState
                 attribute), 237
WORKER NAME (built-in variable), 57
WPEventManagement
                                                         (class
                                                                                                in-
                                                                                in
                 dico.modules.events.management.views),
```