



*an event management system*

Pedro Ferreira, Dominic Hollis (CERN)



A screenshot of the Indico web interface. At the top, there's a navigation bar with links for "Home", "Create event", "Room booking", and "My profile". A search bar says "Enter your search term" and a "Create event" button. The main content area has a section titled "Main categories" with a list of categories and their event counts: CERN-Related Clubs, Associations and Forums (9,256 events), Committees (12,044 events), Conferences, Workshops and Events (10,460 events), Departments (116,959 events), Directorate (507 events), Experiments (856,409 events), Global Indico (10,523 events), Outreach (2,395 events), Projects (74,220 events), Schools, Seminars and Courses (12,030 events), and TEST Category (89 events). To the right, there's a "News" section with three items: "Indico 3.3" (Posted 5 Dec 2023), "Adding Images to minutes" (Posted 25 Aug 2022), and "Indico 3.2" (Posted 19 Jun 2022). Below that is an "Upcoming events" section listing several workshops and conferences.

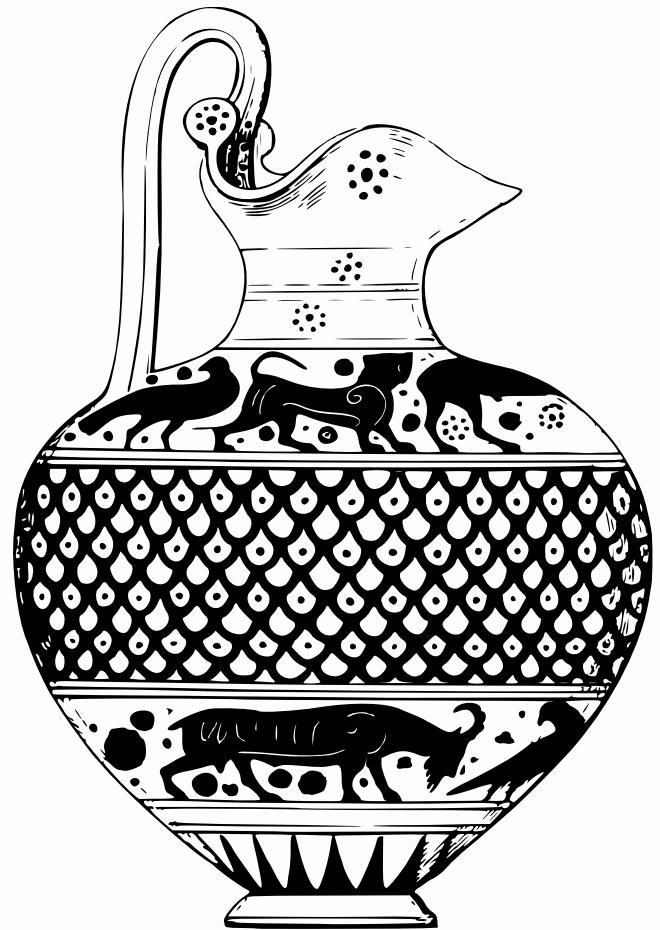
- **Event Management System**
- **Collaborative effort - MIT License**
- **Core Developed at CERN**
- **With contributions from the United Nations, Max-Planck Institute for Physics and many others!**
- **70+ developers over the years**



*The most popular event management system you never heard about*

- **300+ servers**
- **> 350K users**
- Initial growth in research, but growing beyond it
  - [indico.un.org](https://indico.un.org)
  - [events.canonical.org](https://events.canonical.org)
  - [indico.gnome.org](https://indico.gnome.org)
  - [lpc.events](https://lpc.events)

# History



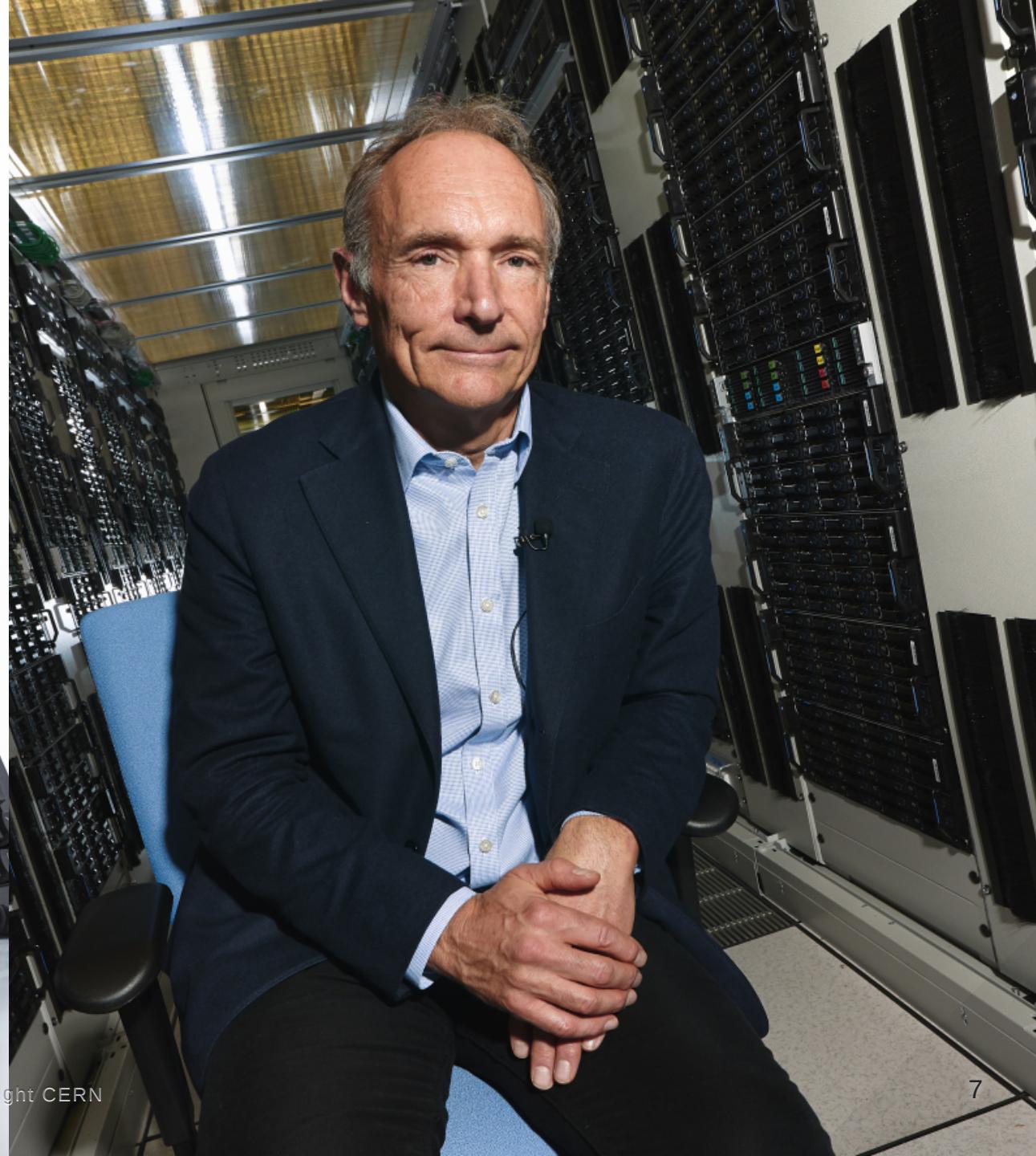
- 1999 - CDS Agenda
- 2002 - EU Project
- 2004 - Indico in Production
- 2007 - Room Booking
- 2008 - Interface overhaul
- 2013 - First Workshop
- 2015 - The UN starts using it
- 2017 - Indico 2.0 (rewrite)
- 2021 - Indico 3.0 (Python 3)
- 2023 - 1 Million Events  
surpassed at CERN 🎉
- 2024 - 20 years!



© Copyright CERN



© Copyright CERN

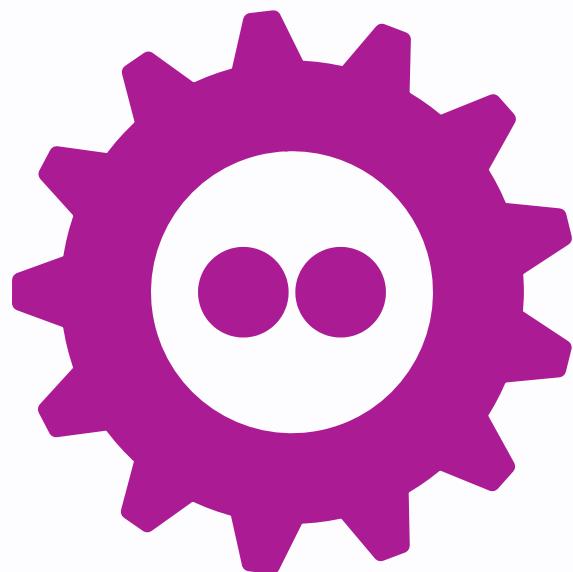
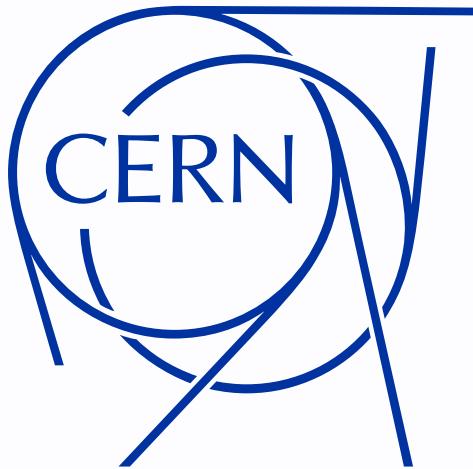




## FOSS at CERN

- Open science is at the core of CERN's mission
- Indico, Invenio, Zenodo, ROOT, ...
- CERN Open Hardware Licence (CERN OHL)
- CERN OSPO (Open Source Program Office)

*also using a lot of FOSS!*



## A bit of publicity...

- **Sat 13:30 - K.3.201** - CERN's Open Source Storage Systems
- **Sat 14:20 - K.3.201** - CephFS at CERN in view of Disaster Recovery
- **Sat 16:00 - UB4.132** - Unlocking Research Data Management with InvenioRDM



# CERN

- ~17.000 people on campus
- ~230 meeting rooms
- 100.000+ events/year
  - 1.000.000+ events total
- (Distributed) Meetings
- Conferences, workshops

# Adoption at CERN

The 18th International Conference on Strangeness in Quark Matter (SQM 2019) will focus on new experimental and theoretical developments on the role of strange and heavy-flavour quarks in high energy heavy-ion collisions and in astrophysical phenomena.

Scientific topics include:

- Strangeness and heavy-quark production in nuclear collisions and hadronic interactions
- Multi-body decays of multi-coupled partons and hadronic medium
- Boltzmann systems associated with strange and heavy quarks
- QCD phase structure
- Quark-gluon plasma systems
- Strangeness in astrophysics
- Open questions and new developments

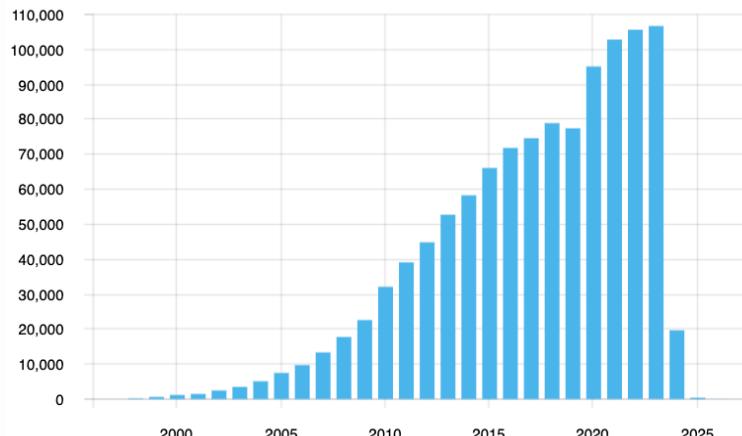
Conference info: [sqm2019.bnl.gov](http://sqm2019.bnl.gov)

Personal Data:

Title	- Choose a value -
First Name *	Pedro
Last Name *	Ferreira
Email Address *	pedro.ferreira@cern.ch
Affiliation	CERN
Member of the Italian Physical Society (IFIS) Address	no

The address should include the institution name, the full mail address and the country.

## EVENTS BY YEAR



FCC-hh physics analysis meeting

Thursday 29 Nov 2018, 16:00 → 18:00 Europe/Zurich  
CERN

16:00 → 16:10 Introduction  
Speakers: Filip Moortgat (CERN), Heather Gray (JINR)  
[FCC\\_intro\\_Nov29.pdf](#)

16:10 → 17:00 Update on tqq constraints from single top production  
Speaker: Lev Dudko (M.V. Lomonosov Moscow State University (MSU))  
[2018-11-29-FCC\\_FCC...](#)

17:00 → 17:30 Update on HH-4b  
Speakers: Ana Carvalho (Universidade de Lisboa (UTL)), Ricardo Jose Morais Silva Goncalo (IP Laboratorio de Instrumentacao e Fisica Experimental de Particulas)

17:30 → 17:50 Update of HH-4bb-1  
Speaker: Elisa Fontanelli (Università e INFN, Bologna (IT))  
[FCC-4bb meeting \[29\]](#)

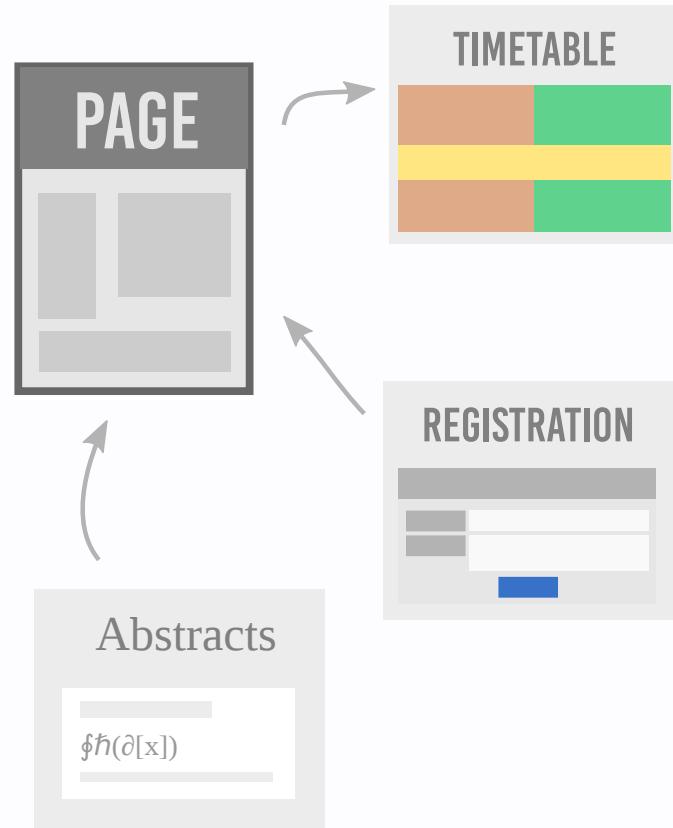
Rucio Development Meeting

Thursday 18 Feb 2021, 15:00 → 16:00 Europe/Zurich  
Martin Barisits (CERN)

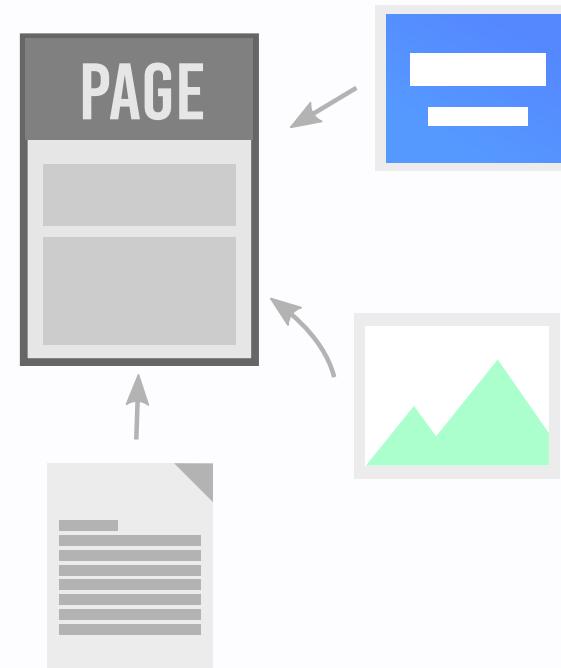
15:00 → 15:10 News

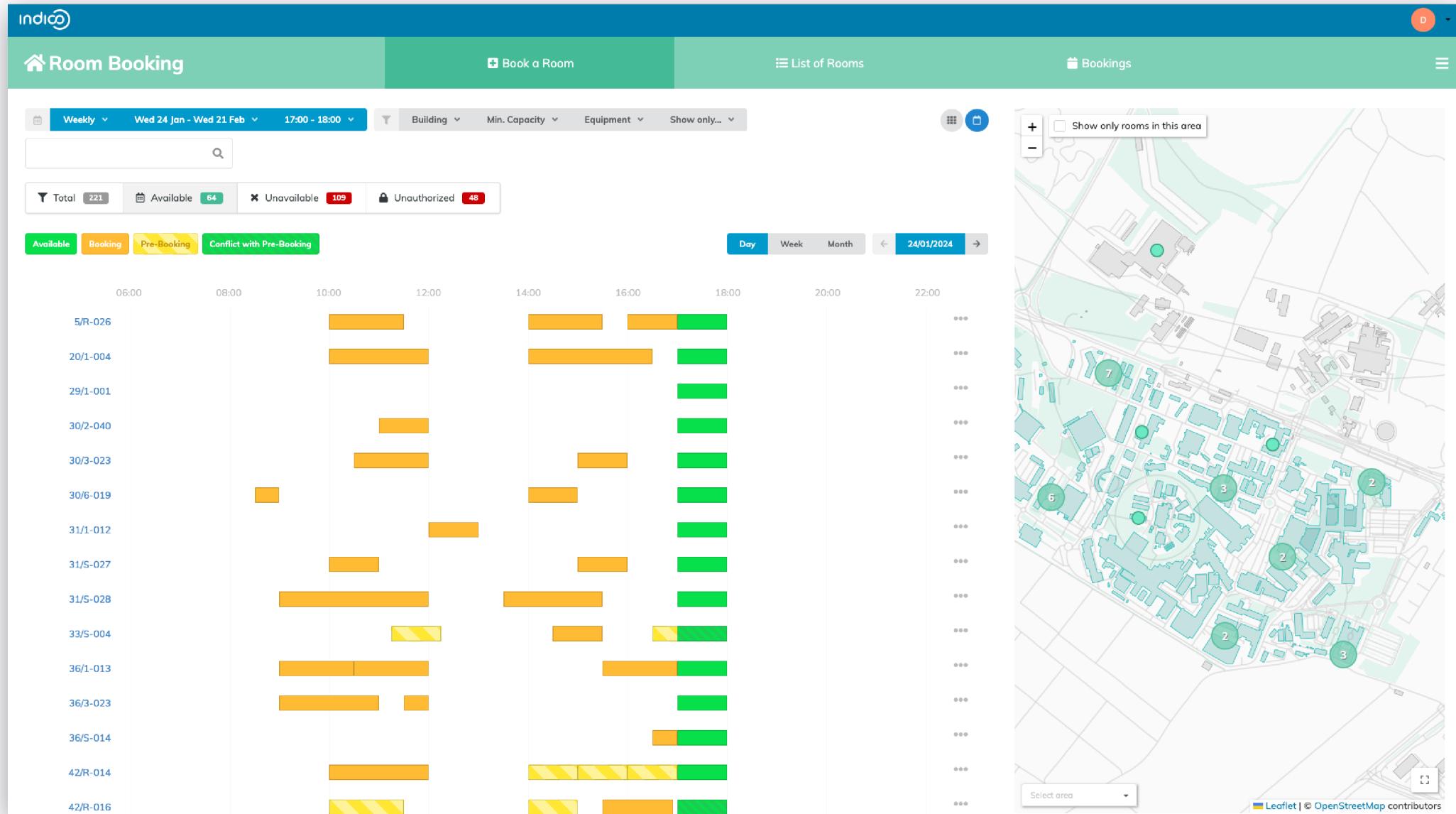
- Two releases this week
  - # 1.24.3 post1
  - # 1.24.4
- Release schedule
  - # 1.24.5 Feb-22
  - # 1.23.13 Feb-26-22
  - # 1.23.13 Mar-22
- Code Freeze from Feb-24
  - # 1.25.0 v1 Feb-25
  - # 1.25.0 Mar-1 ... Mar-5

# CONFERENCES WORKSHOPS



# MEETINGS LECTURES







## Philosophy

- "General purpose" **core**
- Extension through **plugins** 
- **Themes**  (customization)

## Under the Hood

- Python 3 
- PostgreSQL 
- Flask
- Celery
- SQLAlchemy
- React
- Semantic UI React
- *among many others!*



# Extensions

- Video conferencing 
- Payment Systems 
- Automatic conversion to PDF 
- Search 
- Storage 
- URL Shortening 
- Internal Workflows (e.g. recording, visitors)

# Zoom

The screenshot shows a Zoom event page for "CTE Section Meeting #87". The top header is blue with white text. It displays the meeting title, date ("Wednesday 31 Jan 2024, 16:00 → 16:30 Europe/Zurich"), and organizer ("Pedro Ferreira (CERN)"). Below the header, there are three main sections: "Videoconference", "Registration", and "Participants". The "Videoconference" section shows a thumbnail for "CTE Section Meeting" and a "Join" button. The "Registration" section indicates that the user is registered and provides a "Check details" button. The "Participants" section lists nine attendees with their names and small profile pictures.

CTE Section Meeting #87

Wednesday 31 Jan 2024, 16:00 → 16:30 Europe/Zurich

Pedro Ferreira (CERN)

Videoconference

zoom CTE Section Meeting ▶ Join

Registration

You are registered for this event. Check details

Participants

	Adrian Mönnich		Dominic Hollis		Duarte Galvao		Michel Succar		Pedro Ferreira		Rene Fernandez Sanchez
	Ruben Domingo Gaspar Aparicio		Tomas Roun								

# Electronic Payment

**Payments**

Event-wide payment settings

 **General settings**  
Configure general settings for payments.

 **Configure**

**Payment methods**

 <b>Manual</b> <span>enabled</span>	 <b>Bank Transfer</b> <span>disabled</span>	 <b>PostFinance CERN</b> <span>enabled</span>	 <b>PayPal™</b> <span>disabled</span>
--	---	--	--

# Workflows

## Logistics

You can request additional services for your event. Click one of the service buttons below to send a request or to view/modify an existing request.

CERN Visitor Badges	Room assistance	Videoconference assistance	Webcast / Recording
Accepted			Accepted

# Access Registration

Request access to the CERN site  
In case you do not have a valid CERN badge, you can request temporary CERN site access here.

**Request access to the CERN site**  
CERN's Security Policy requires you to provide the following additional data. The contents of this form will not be shared with the event organizers and will only be revealed upon request from CERN's Site Surveillance service.

Once you have provided this data, you will be able to get a ticket which grants you access to the CERN site during this period: 14 September 2023 (10:00 - 12:00)

Birth date \*  
 DDMMYYYY 

Country of birth \*  
 Select a country

Place of birth \*

 Vehicle Registration  
 I'm coming by car



# Recording of Events



**Request details**

These are the details provided by the event manager.

Created by [redacted]

Created at 12 May 2022, 08:38

Services **\***  Webcast  Recording

Please choose whether you want a webcast, recording or both.

All contributions  
Uncheck this if you want to select only certain contributions.

Webcast Audience No restriction - everyone can watch the public webcast

Select the audience to which the webcast will be restricted

Language English

Select the main spoken language during the event

Comments

If you have any additional comments or instructions, please write them down here.

Modify request Withdraw request Back

CERN Accelerating Science Logged in as: Pedro Ferreira (pferreira) Logout Directory

CERN Webcast Website Home Webcast Service Docs CDS Archive

**10 years of Higgs boson measurements at ATLAS and CMS** by Kerstin Tackmann

This event is also available in French

Main view Camera Slides

Discovery of a new particle. Signal steadily increasing with size of dataset: "Textbook discovery". Why very exciting for a Higgs boson, but what if it's not found?

**Event details**

Date Thursday 01 Feb 2024, 17:03 → 17:03 (Europe/Zurich) Location 500/L-001

Speaker(s) Kerstin Tackmann

**Abstract**

On 4 July 2012, a packed CERN Auditorium, joined by physicists in Melbourne on the eve of ICHEP2012, along with a global webcast audience, learned that the long-awaited Brout-Englert-Higgs mechanism had

Indico Event page

# Hot desking

The screenshot shows the Indico Burotel interface for hot desking. At the top, there's a navigation bar with tabs for "Burotel", "Book a Desk", "List of Spaces", and "Bookings". Below the navigation is a search bar and filters for "Daily" (selected), "Thu 1 Feb - Thu 8 Feb", "Location", "Building", "Equipment", and "Experiment". A status summary shows "Total 591", "Available 86", "Unavailable 53", and "Unauthorized 454".

The main area displays four sections of desks:

- 15**:
  - 15/R-014**: 15/R-014 - Desk 4 LHCb (LHCb)  
Status: Available (green checkmark)
- 15/R-016**:
  - 15/R-016 - Desk 2 LHCb (LHCb)  
Status: Available (green checkmark)
  - 15/R-016 - Desk 4 LHCb (LHCb)  
Status: Available (green checkmark)
- 15/R-022**:
  - 15/R-022 - Desk 2 LHCb (LHCb)  
Status: Available (green checkmark)
- 15/R-024**:
  - 15/R-024 - Desk 2 LHCb (LHCb)  
Status: Available (green checkmark)

To the right, a map of the CERN site shows various buildings and specific desks marked with blue icons and red circles containing numbers (e.g., 653, 20, 8, 17, 42, v2). A legend indicates "Show only rooms in this area". At the bottom of the map, it says "Select area" and "Leaflet | © OpenStreetMap contributors".

# Themes / Customization

The screenshot shows the Indico web interface for the International Linear Collider (ILC) Agenda. The top navigation bar includes links for Home, Create event, and a search bar. The main content area displays 'Main categories' with a list of categories and their event counts:

Category	Events
ILC International Development Team	502 events
Machine Design	2,157 events
Physics and Detectors	4,154 events
Conference and Workshops	119 events
Institutions	1,172 events
Linear Collider Collaboration	177 events
Test Area	101 events

To the right, there is a 'News' sidebar with three news items:

- Indico 3.3 (Posted 21 Dec 2023)
- Indico 3.2 (Posted 22 Jun 2022)
- Indico 3.1 (Posted 6 Jan 2022)

At the bottom, the footer includes the Indico logo and version information: 'Powered by Indico v3.3-pre'.

# Themes / Customization

The screenshot shows a meeting agenda for the FCC-hh physics analysis meeting at CERN on Thursday, November 29, 2018, from 16:00 to 18:00 Europe/Zurich time.

**16:00 → 16:10 Introduction**  
Speakers: Filip Moortgat (CERN), Heather Gray (LBNL)  
[FCC\\_Intro\\_Nov29.pdf](#)

**16:10 → 17:00 Update on tqq constraints from single top production**  
Speaker: Lev Dudko (M.V. Lomonosov Moscow State University (RU))  
[2018-11-29-FCC\\_FC...](#)

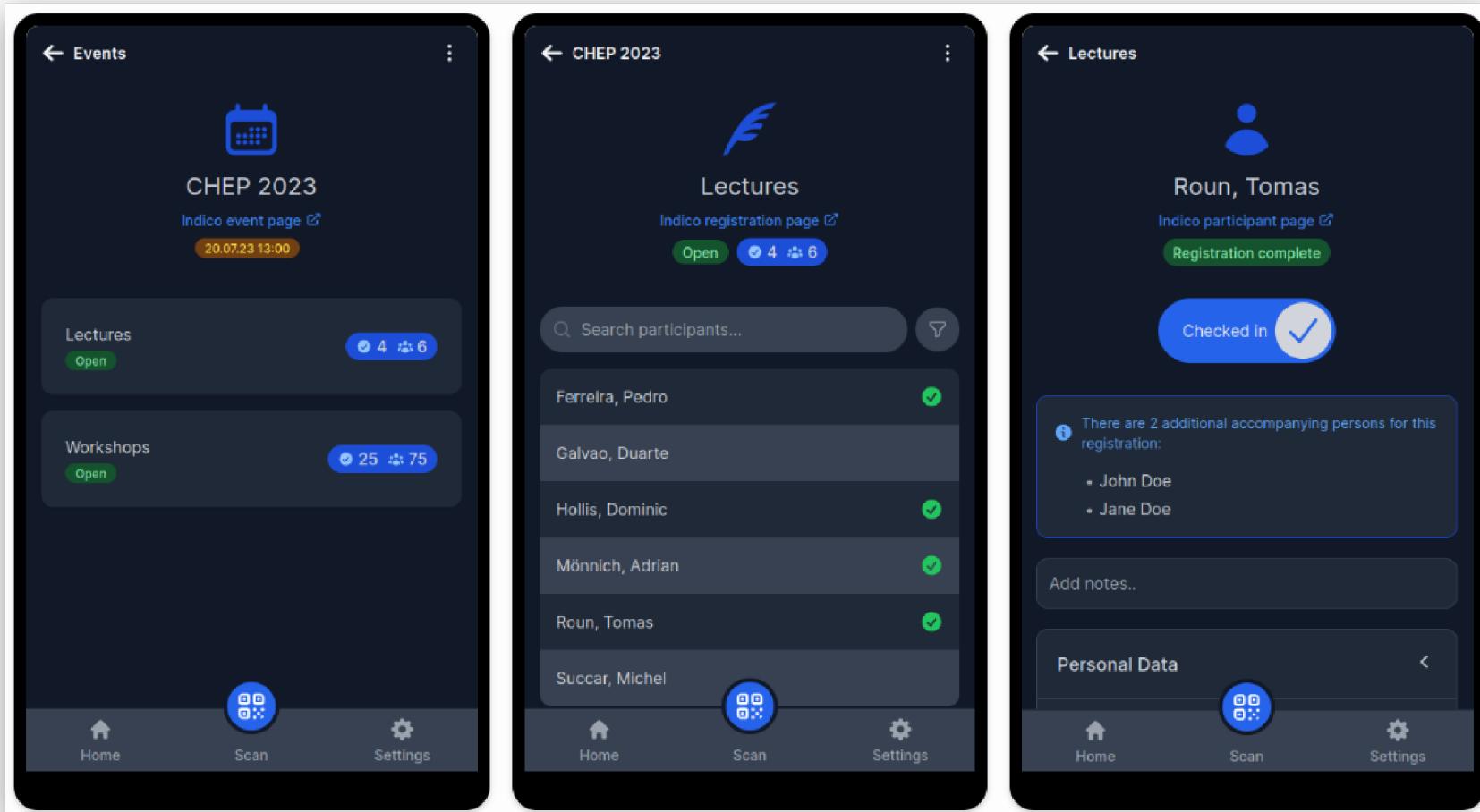
**17:00 → 17:30 Update on HH->4b**  
Speakers: Ana Carvalho (Universidade de Lisboa (PT)), Ricardo Jose Morais Silva Goncalo (LIP Laboratorio de Instrumentacao e Fisica Experimental de Part)  
[FCCphysics\\_hhbbb...](#)

**17:30 → 17:50 Update of HH->bb4l**  
Speaker: Elisa Fontanesi (Universita e INFN, Bologna (IT))  
[FCC-hh meeting \(29...](#)

# Themes / Customization



# Check-in App (PWA)



[all categories](#) **Categories** Latest Top

Category	Topics
<b>Administrators</b>	585
For exchanges and requests for help regarding installation, maintenance and administration of Indico.	
■ Migration from 1.2 to 2.0	
<b>Announcements</b>	19
For official announcements from the indico team, e.g. about new releases.	
<b>General Discussion</b>	513
Topics that don't need a category, or don't fit into any other existing category.	
<b>Internationalization and Localization</b>	43
Coordination of translation groups and general advice on translating Indico to other languages.	
<b>Development</b>	222
Discussions on the development of Indico plugins and modules.	
■ Accessibility ■ Plugin Development	
<b>Site Feedback</b>	4
Discussion about this site, its forum, how it works, and how we can improve it.	

Latest		
 Welcome to the Indico Community Forums	2	Aug '17
 How to configure SAML SSO with Ping?	0	5h
 Indico 3.2 released [v3.2.8]	15	20h
 LDAP group membership resolution	1	21h
 Translation into Vietnamese language	1	1d
 Can Indico be used for managing sporting events	1	8d
 Reverse proxy internal IP	10	9d
 Creating an event via HTTP API	6	9d
 Session & registration	2	12d
 Japanese (ja) translation group	16	12d
 Polish (pl) translation group	141	13d

# Conclusion

- Extensible event management system
- Open Source
- Mature and actively maintained
- Ecosystem of plugins: official + 3rd party
- Thriving community
- Everyone is welcome!

# getindico.io

 @getindico@fosstodon.org

 @getindico

[m] @#indico:matrix.org / indico@libera.chat



Indigo