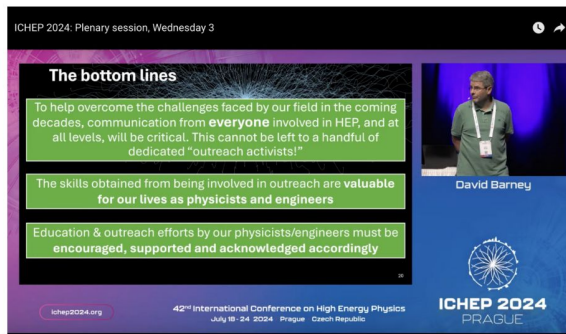


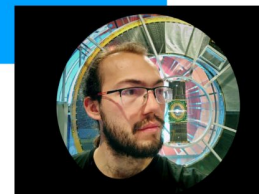
Intro by Claire



Filling a long standing gap



Agnostic web portal to
expose
“success stories”



Final question to Dave: “how do I know how what other people do ?

Dave: ask Steve & Pedro

Steve: IPPOG does it

Me (in front of youTube): ah. Do we really do it ??? ... Introducing Hektor Pillot

The new Resources Portal

29th IPPOG Collaboration Meeting

Hector PILLOT

Master Student @ IPPOG

Fermilab, 14 May 2025







Speaker


 Melissa Samson (CERN)

Presentation materials

-  20230511 - WIST - Presentation IPPOG.pdf
-  20230511 - WIST - Presentation IPPOG.pptx

10:00


Congrès des deux infinis

Dr Nicolas Arnaud 

Sofia Tech Park, Sofia, Bulgaria

10:00 - 10:15

Women and Girls in Science and Technology

Melissa Samson 

Sofia Tech Park, Sofia, Bulgaria

10:15 - 10:30


LHC: connect the dots!

Francois Briard 

Sofia Tech Park, Sofia, Bulgaria

10:30 - 10:45

Phy6cool summer school for undergraduate physics students + Avenida de la Física

Jesus Puerta Pelayo 

Sofia Tech Park, Sofia, Bulgaria

10:45 - 11:00

11:00


Paricle Physics for Kids + Particle Physics for Teacher

Mr Michael Gregory 

Sofia Tech Park, Sofia, Bulgaria

11:00 - 11:15


German outreach network Netzwerk Teilchenwelt

Christian Klein-Boesing et al. 

Sofia Tech Park, Sofia, Bulgaria

11:15 - 11:30

National Quantum and Dark Matter Road Trip + Dark Matter Schools program

Jacqueline Bondell 

Sofia Tech Park, Sofia, Bulgaria

11:30 - 11:45

Online events for primary school students


Dr Cecilia Colla Ruvolo 

Sofia Tech Park, Sofia, Bulgaria

11:45 - 12:00

12:00

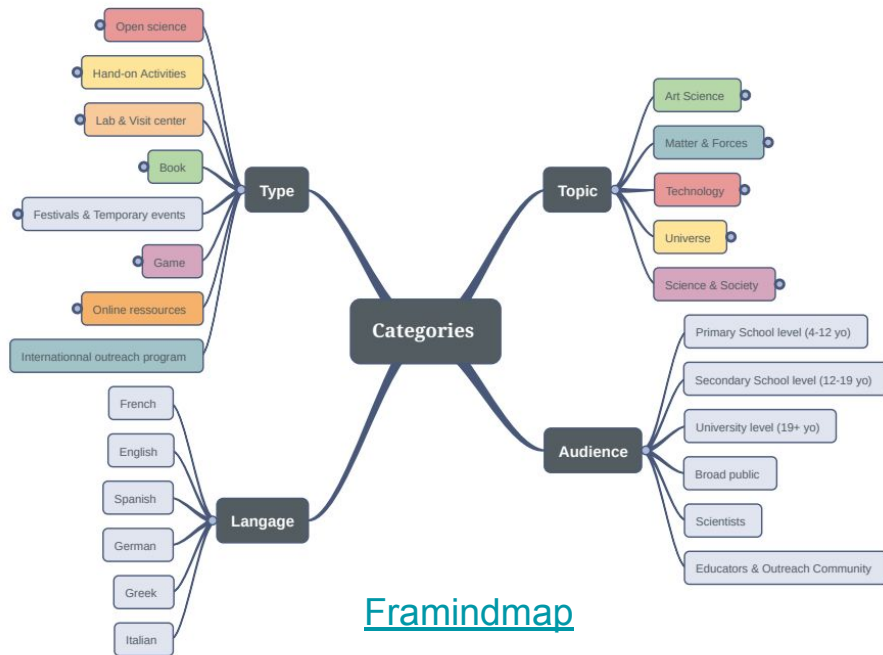
World Quantum Day

Zlatan Vasović 

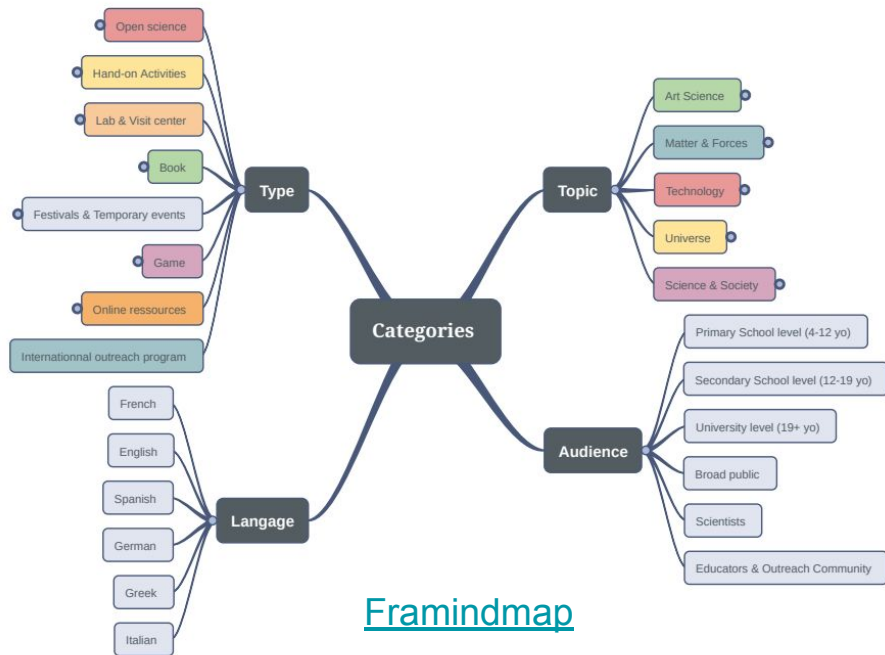
Sofia Tech Park, Sofia, Bulgaria

12:00 - 12:15

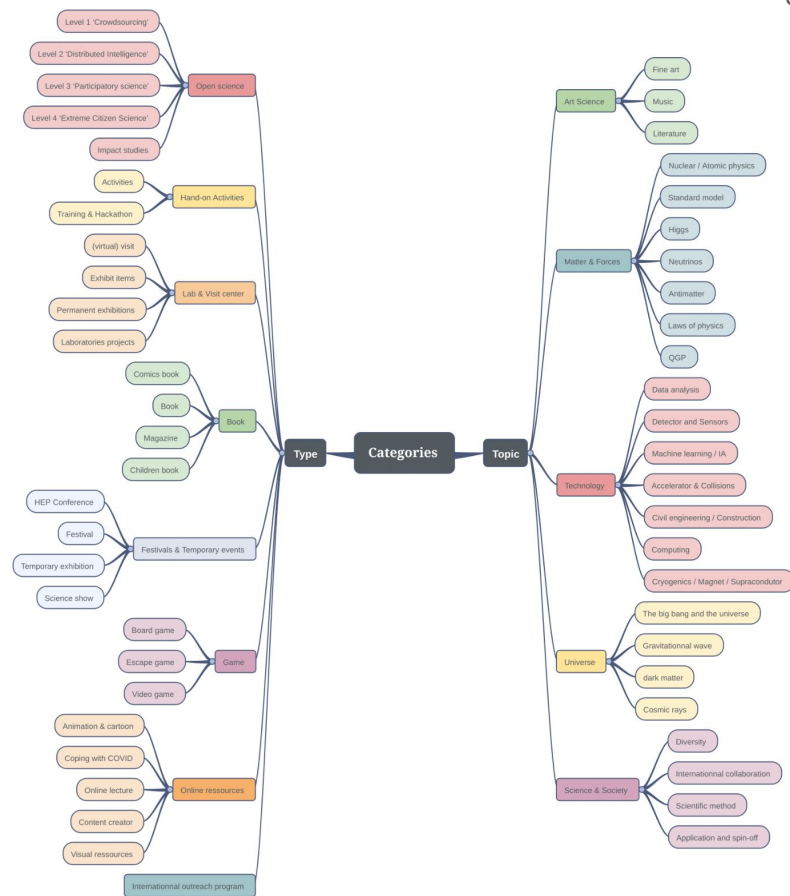
Categories & Tags



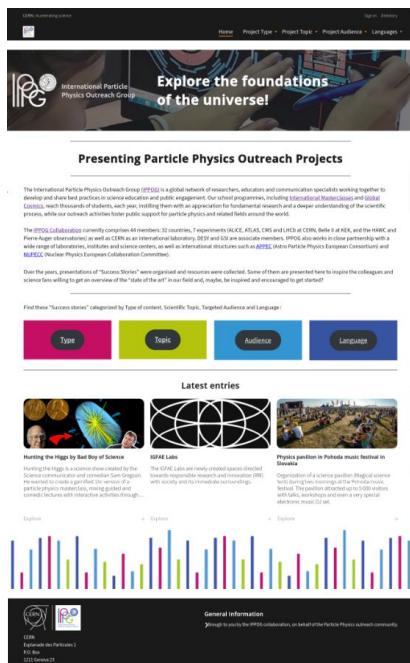
Categories & Tags



Framindmap

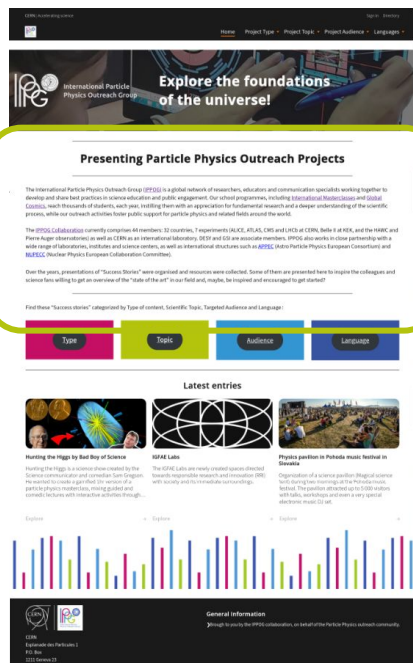


Introducing the new portal



<https://ippog-resources-portal.web.cern.ch/>

Introducing the new portal



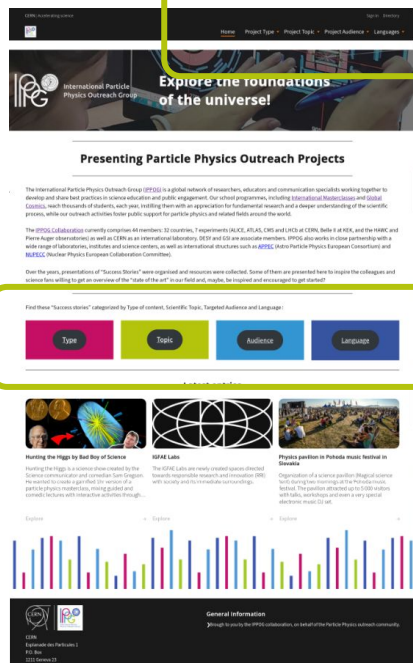
Presenting Particle Physics Outreach Projects

The International Particle Physics Outreach Group ([IPPOG](#)) is a global network of researchers, educators and communication specialists working together to develop and share best practices in science education and public engagement. Our school programmes, including [International Masterclasses](#) and [Global Cosmics](#), reach thousands of students, each year, instilling them with an appreciation for fundamental research and a deeper understanding of the scientific process, while our outreach activities foster public support for particle physics and related fields around the world.

The [IPPOG Collaboration](#) currently comprises 44 members: 32 countries, 7 experiments (ALICE, ATLAS, CMS and LHCb at CERN, Belle II at KEK, and the HAWC and Pierre Auger observatories) as well as CERN as an international laboratory. DESY and GSI are associate members. IPPOG also works in close partnership with a wide range of laboratories, institutes and science centers, as well as international structures such as [APPEC](#) (Astro Particle Physics European Consortium) and [NUPECC](#) (Nuclear Physics European Collaboration Committee).

Over the years, presentations of “Success Stories” were organised and resources were collected. Some of them are presented here to inspire the colleagues and science fans willing to get an overview of the “state of the art” in our field and, maybe, be inspired and encouraged to get started?

Introducing the new portal



Home Project Type Project Topic Project Audience Languages

Find these "Success stories" categorized by Type of content, Scientific Topic, Targeted Audience and Language :

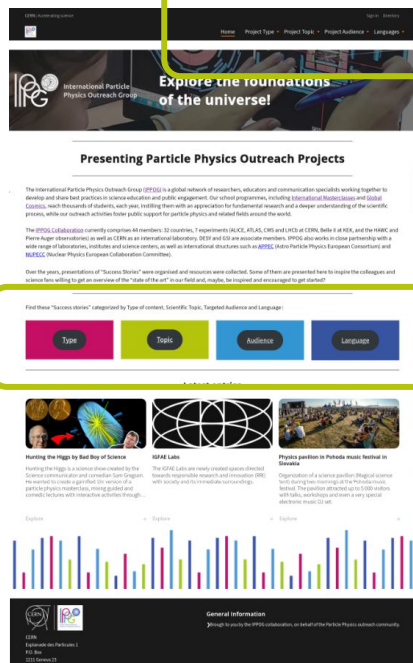
Type

Topic

Audience

Language

Introducing the new portal



Home

Project Type

Project Topic

Project Audience

Languages

Art Science

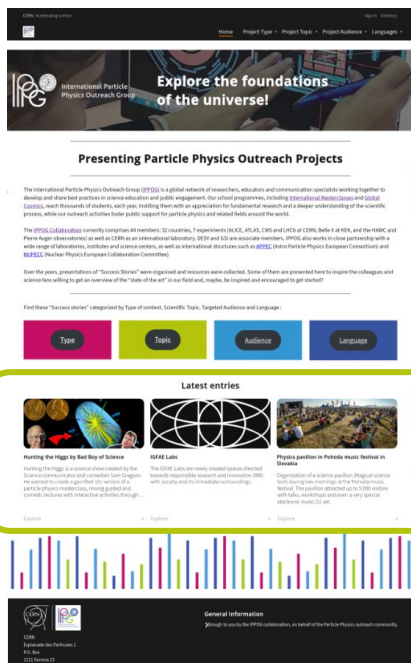
Science & Society

Technology

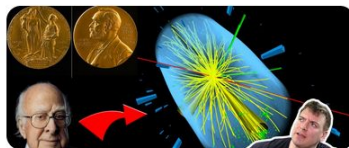
Universe

Matter & Forces

Introducing the new portal



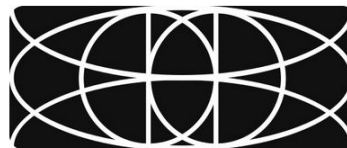
Latest entries



Hunting the Higgs by Bad Boy of Science

Hunting the Higgs is a science show created by the Science communicator and comedian Sam Gregson. He wanted to create a gamified 1hr version of a particle physics masterclass, mixing guided and comedic lectures with interactive activities through...

Explore



IGFAE Labs

The IGFAE Labs are newly created spaces directed towards responsible research and innovation (RRI) with society and its immediate surroundings.

Explore



Physics pavilion in Pohoda music festival in Slovakia

Organization of a science pavilion (Magical science tent) during two mornings at the Pohoda music festival. The pavilion attracted up to 5 000 visitors with talks, workshops and even a very special electronic music DJ set.

Explore

Three level Tree

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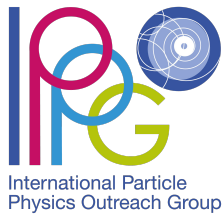


Property (Type, Topic, Audience, Language)

└ Category (Book, Matter & force, 4-12 yo)

└ Project





Type

Or

Project Type ▾

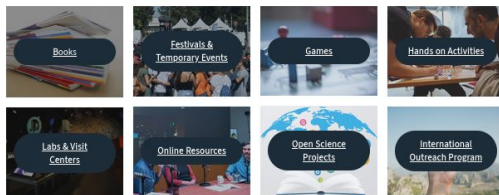


Type

Or


Project Type ▾

Projects Types



Latest projects for Books


Books are readable materials popularizing science in diverse manners.



Particle Physics for Babies Book

[View Project](#) [Download Project](#)


The book is a particle physics tale without any words. It contains colorful physics-themed images that attract the attention of children. Together with the book there are free downloadable captions that allow parents/adults to learn about the LHC while...



Review of the Particle Physics Content High School Physics Curricula

[View Project](#) [Download Project](#)

This international curricular review provides a structured overview of the particle physics content in 27 state, national, and international high-school physics curricula. Overall, this international curricular review provides the basis for future curricular...



Engaging Young Minds with Particle Physics

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The Outreach team at Münster University identified that in Germany, students usually decide whether or not to continue their physics education around the age of 15. To address the problem, they focused on students aged 10 to 15 to give them a real insight in...

Latest projects for Festivals & Temporary Events

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THE BIG BANG COLLECTIVE

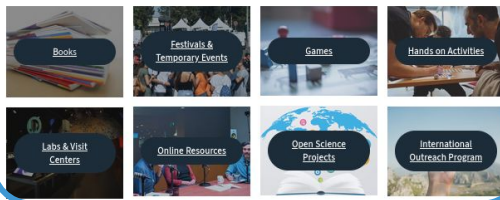
The Big Bang Stage at the Colours of Ostrava music festival

[View Project](#) [Download Project](#)

Various shows and workshops are hosted by the Big Bang Stage in the Colours of Ostrava Festival in Czech Republic. It attracted about 3000 visitors for 4 days through workshops, talks, and science shows.

Type

Projects Types



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Explore → Explore → Explore →

Related tags: [#Particle Book](#) [#Magazine](#) [#Children Book](#)

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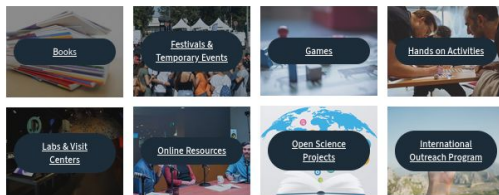
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Project Type ▼

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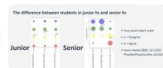


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Engaging Young Minds with Particle Physics

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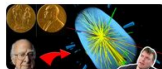
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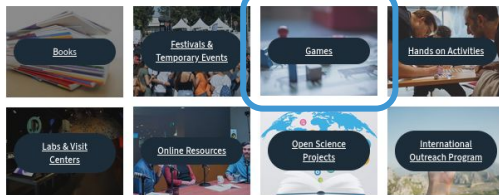
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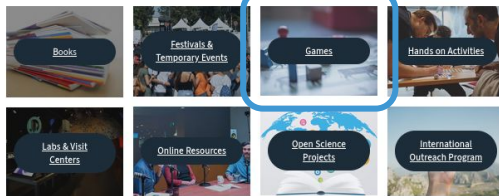
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Project Type ▼

Projects Types



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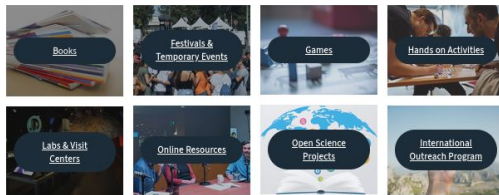
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Type

Projects Types



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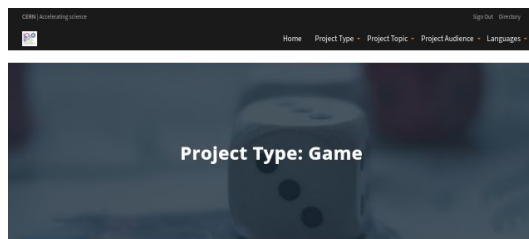


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Latest projects for Festivals & Temporary Events

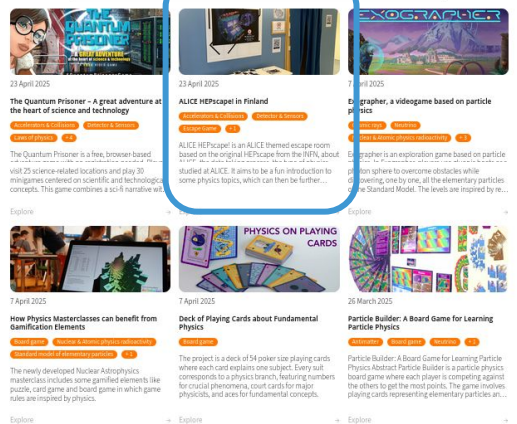
Festival / Temporary event are rich projects that take place from a few hours to a few months. They usually combine multiples types of outreach projects like talks, demonstrations, art/science...



Project Type: Game

Game are playful project making use of ludicity. They allow the audience to learn independently without guidance.

Related tags: [Board Game](#) [Escape Game](#) [Video Game](#)



Explore → Explore → Explore →

Related tags: [Science Book](#) [Magazine](#) [Children Book](#)

Project Type

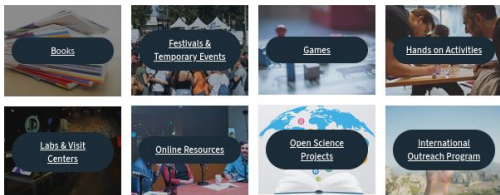


International Particle
Physics Outreach Group

Type

Project Type

Projects Types



Latest projects for Books

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Explore

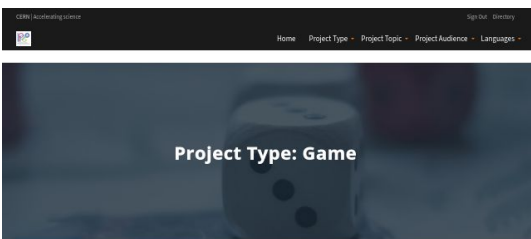
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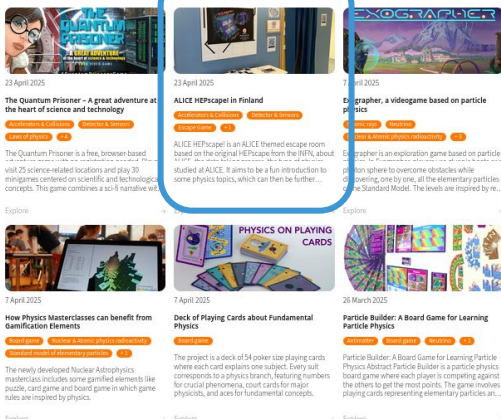


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Explore

Related tags: [The Quantum Prisoner - A great adventure at the heart of science and technology](#) [ALICE HEPscape! in Finland](#) [The Quantum Prisoner - A great adventure at the heart of science and technology](#)

ALICE HEPscape! in Finland

Credit : ALICE Collaboration, Finland

Abstract

ALICE HEPscape! is an ALICE themed escape room based on the original HEPscape from the INFN, about ALICE, the data taking process, the type of physics studied at ALICE. It aims to be a fun introduction to some physics topics, which can then be further discussed after the game.

Capacity : 8-20 participants per game
Time : - 30min - 1h

Presentation @ 20th IPPOG meeting (2023) : <https://indico.cern.ch/event/1292114/contributions/5591634/attachments/2781115/48008204/anna.ALICE%20HEPscapeFinland.pdf>

Contact

Authors :

- Anna Onnenstad (University of Jyväskylä (FI))
- Laura Huhta (University of Jyväskylä (FI))
- Heidi Rytkönen (University of Jyväskylä (FI))
- Oskari Saaremäki (University of Jyväskylä (FI))

Supported by :

- ALICE Collaboration,
- University of Jyväskylä (FI)

Related IPPOG Collaboration member :

- [ALICE Collaboration](#)
- [Finland](#)

Contact :

- anna.onnenstad@jyu.fi

Project status

Unknown (updated 2025-04-22)

Files & Resources

- [Website](https://web.info.it/hepscape/en/hepscape-university-of-jyväskylä-finland/)

Categories : [Audience:Broad Public](#) [Audience:Secondary School Level \(12-18\)](#) [Language:English](#) [Topic:Matter & Forces](#) [Topic:Technology](#) [Type:Game](#)

Tags : [Accelerators & Colliders](#) [Detector & Sensors](#) [Escape Game](#) [Standard model of elementary particles](#)

General information

Submitted to you by the IPPOG collaboration, on behalf of the Particle Physics outreach community.

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- [Finland](#)

Contact :

- [anna.onnerstad\[at\]cern.ch](mailto:anna.onnerstad[at]cern.ch)

Project status

Unknown (updated 2025-04-22)

Files & Resources

- Website :
- <https://hep.inf.fi/hepscape/en/hepscape-university-of-jyväskylä-finland/>

Categories : [Audience:Broad Public](#), [Audience:Secondary School Level \(12-18\)](#), [Language:English](#), [Topic:Matter & Forces](#), [Topic:Technology](#), [Type:Game](#)

Tags : [Accelerators & Collisions](#), [Detectors & Sensors](#), [Escape Game](#), [Standard model of elementary particles](#)



General information

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Article

Presentation @ 26th IPPOG meeting (2023) : <https://indico.cern.ch/event/1292114/contributions/5591634/attachments/2761115/4808304/anna-ALICE%20HEPscapeFinland.pdf>



Credit : ALICE Collaboration, Finland

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Related IPPOG Collaboration member :

- [ALICE Collaboration](#)
- [Finland](#)

Contact :

- [anna.ormerstead\[at\]cern.ch](mailto:anna.ormerstead[at]cern.ch)

Project status

Unknown (updated 2025-04-22)

Files & Resources

- Website :
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- Heidi Rytönen (University of Jyväskylä (FI))
- Oskari Saarikallio (University of Jyväskylä (FI))

Supported by :

- ALICE Collaboration,
- University of Jyväskylä (FI)

Related IPPOG Collaboration member :

- [ALICE Collaboration](#)
- [Finland](#)

Contact :

- [anna.onnerstad \[at\] cern.ch](mailto:anna.onnerstad[at]cern.ch)

Project status

Unknown (updated 2025-04-22)

Files & Resources

- Website :
- <https://hep.inf.fi/hepscape/en/hepscape-university-of-jyväskylä-finland/>

Categories : [Audience:Broad Public](#), [Audience:Secondary School Level \(12-18\)](#), [Language:English](#), [Topic:Matter & Forces](#), [Topic:Technology](#), [Type:Game](#)

Tags : [Accelerators & Collisions](#), [Detectors & Sensors](#), [Escape Game](#), [Standard model of elementary particles](#)



General information

Brought to you by the IPPOG collaboration, on behalf of the Particle Physics outreach community.

Project status

Unknown (updated 2025-04-22)

ALICE HEPscape! in Finland



Credit : ALICE Collaboration, Finland

Abstract

ALICE HEPscape! is an ALICE themed escape room based on the original HEPscape from the INFN, about ALICE, the data taking process, the type of physics studied at ALICE. It aims to be a fun introduction to some physics topics, which can then be further discussed after the game.

Capacity : 8-20 participants per game
Time : - 30min - 1h

Presentation @ 20th IPPOG meeting (2023) : <https://indico.cern.ch/event/1292114/contributions/593434/attachments/279115/4808304/anna.ALICE%20HEPscapeFinland.pdf>

Contact

Authors :

- Anna Onnerstad (University of Jyväskylä (FI))
- Laura Huhta (University of Jyväskylä (FI))
- Heikki Rytönen (University of Jyväskylä (FI))
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Tags : [Accelerators & Collisions](#), [Detectors & Sensors](#), [Escape Game](#), [Standard model of elementary particles](#)



General information

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Audience

Topic

Type

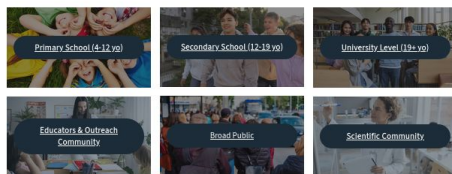


Audience

Topic

Type

Projects Audiences



Latest projects for Broad Public



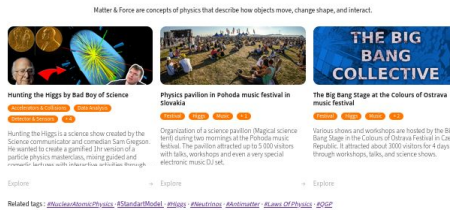
Latest projects for Educators & Outreach Community



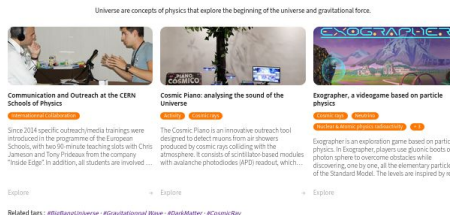
Projects Topics



Latest projects for Matter & Forces

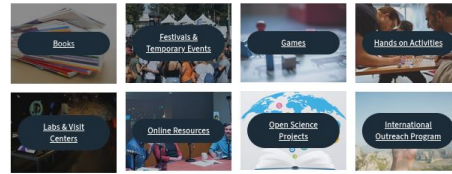


Latest projects for Universe



Latest projects for Technology

Projects Types

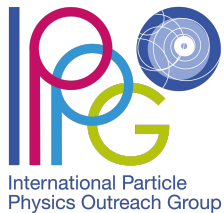


Latest projects for Books



Latest projects for Festivals & Temporary Events





Process / Stats

91 Projects identified

34 Projects posted

33 Projects ready to be posted

24 Projects work-in progress





International Particle
Physics Outreach Group

Form

Name of the project in English *

Name of the project in it's original language

Featured Image *

Browse... No file selected.

TRANSFÉRER



IPPOG success story

27



International Particle
Physics Outreach Group

The International Particle Physics Outreach Group (IPPOG) is a global network of researchers, educators and communication specialists working together to develop and share best practices in science education and public engagement. Our school programmes, including [International Masterclasses](#) and [Global Cosmic](#), reach thousands of students, each year, instilling them with an appreciation for fundamental research and a deeper understanding of the scientific process, while our outreach activities foster public support for particle physics and related fields around the world.

Please use this form to submit your inspiring stories of particle physics outreach projects ! You can find examples of projects on the [website](#) :



URL of the Website (if there is one)

URL to a presentation slide (if there is one)

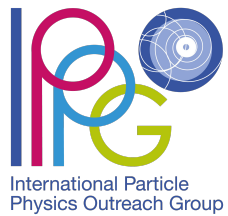
URL of published paper related separated by "/" (if there is)

Other important resources (in the format : Name1 : URL1 / Name2 : URL2 / ...)

Work in progress

- Still alpha version of CERN WordPress
 - Not possible to cross search categories (ex Book + Matter & Force)
 - Tags are difficult to use
 - No multilingual possibility **YET**
- Contact & correction : status of the projects / contact
- Form



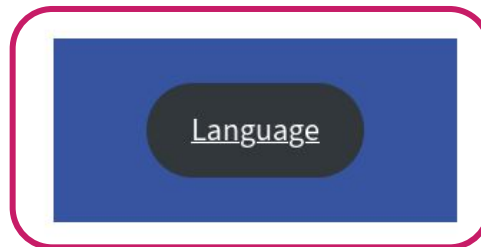


Language

Language



Language



Language

Language

Community, Language & Topics Discussion Groups

The Particle, Nuclear and Astroparticle Physics Communities are spread over all continents, and representing its depth and diversity is a permanent challenge. Some discussion groups were thus created to help building language specific pages and/or to material on collect more specific topics.

Are considered for now:

[Search for Projects in English](#)

[Search for projects in French](#)

[Search for projects in German](#)

[Search for projects in Italian](#)

[Search for projects in Portuguese](#)

[Search for projects in Spanish](#)

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[Search for projects in Italian](#)

[Search for projects in Portuguese](#)

[Search for projects in Spanish](#)

Project Language: Spanish

Los países hispanohablantes forman parte actualmente de la Colaboración IPPOG: España y México. Los observatorios de rayos cósmicos HAWC y Pierre Auger también se encuentran en países hispanohablantes (Argentina y México) y los cuatro experimentos del LHC (ALICE, ATLAS, CMS, LHCb) cuentan con importantes comunidades latinoamericanas.

Representantes de los países miembros del IPPOG:

- España: [Alicia Puerta-Pelagó](#), from [CERN](#) and [CERN](#)
- México: [Arturo Fernández Téllez](#) ([RUBIC](#))

IPPOG Masterclass contactos en países de habla hispana:

- [Argentina](#)
- [Brasil](#)
- [Colombia](#)
- [Ecuador](#)
- [Guatemala](#)
- [Honduras](#)
- [Nicaragua](#)
- [Paraguay](#)
- [Perú](#)
- [Uruguay](#)
- [Venezuela](#)

Existe una versión en español para los proyectos:



IPPOG Labs

The IPPOG Labs are newly created spaces directed towards responsible research and innovation (RRI) with society and its immediate surroundings.



A Day with Particles: One day in the life of a physicist

Available in English, Spanish, and Chinese

Originally prepared for TheLightTagging@CERN2020, A Day with Particles is a short independent film by three ATLAS physicists at Charles University in Prague. The 30 minute film follows a day in the life of postdoc, Jochen Peres,...



Particle Physics for Babies Book

Available in English, Spanish, and Chinese

This book is a particle physics talk without any words, it contains colorful physics-themed images that attract the attention of children. Together with the book there are free downloadable captions that allow parents/adults to learn about the LHC while...

Explore

Explore

Explore



Language

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Representantes de los países miembros del IPPOG:

- España: [Ana Puerta-Palao](#), from [CERN](#) and [CERN](#)
- México: [Antonio Fernandez-Torres](#) (RUBAT)

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- [Ecuador](#)
- [Guatemala](#)
- [Honduras](#)
- [Nicaragua](#)
- [Paraguay](#)

Existe una versión en español para los proyectos:



IGFAE Labs

[Investigación](#) [Educación](#) [Cultura](#) [Comunicación](#)

The IGFAE Labs are newly created spaces directed towards responsible research and innovation (RRI) with society and its immediate surroundings.



A Day with Particles : One day in the life of a physicist

[Investigación](#) [Educación](#) [Cultura](#) [Comunicación](#)

[Investigación](#) [Educación](#) [Cultura](#) [Comunicación](#)

Originally prepared for TheLightLanguage/CERN2020, A Day with Particles is a short independent film by three ATLAS physicists at Charles University in Prague. The 30 minute film follows a day in the life of physicist, Jolana Pleskova...



Particle Physics for Babies Book

[Investigación](#) [Educación](#) [Cultura](#) [Comunicación](#)

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Explore



Explore



Explore



Language

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Representantes de los países miembros del IPPOG:

- España: [Jesús Puerta-Pelayo](#) , from [CIEMAT](#) and [CPAN](#)
- Mexico: [Arturo Fernandez Tellez \(BUAP\)](#).

Project Language: Spanish

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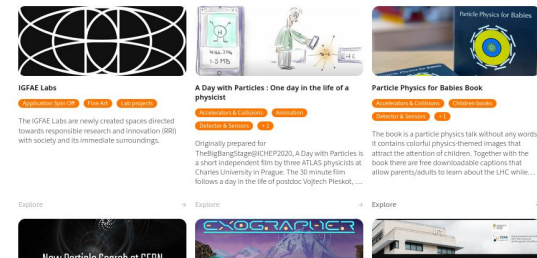
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- México: [Arturo Fernandez-Tellez](#), [INIFT](#)


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- [Honduras](#)
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- [Spain](#)
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Existe una versión en español para los proyectos:




IGFAE Labs
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Particle Physics for Babies Book
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Explore



Explore



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Language

Existe una versión en español para los proyectos:



IGFAE Labs

Application Spin Off Fine Art Lab projects

The IGFAE Labs are newly created spaces directed towards responsible research and innovation (RRI) with society and its immediate surroundings.

Explore



A Day with Particles : One day in the life of a physicist

Accelerators & Collisions Animation

Detector & Sensors +1

Originally prepared for TheBigBangStage@ICHEP2020, A Day with Particles is a short independent film by three ATLAS physicists at Charles University in Prague. The 30 minute film follows a day in the life of postdoc Vojtech Pleskot, ...

→ Explore



Particle Physics for Babies Book

Accelerators & Collisions Children books

Detector & Sensors +1

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→ Explore

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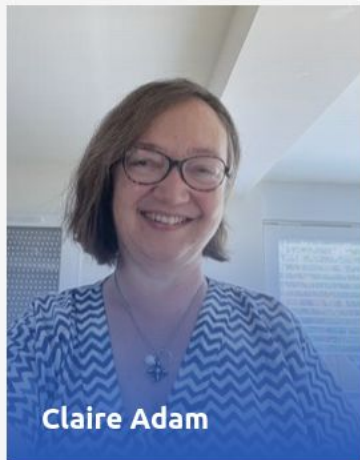
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Discussion groups

Convener



Beyond the curation of "success stories" and their implementation in the new web site, discussion groups are being setup, to help with the collection and organisation of resources:

Per language: starting with the languages that are of interest for several IPPOG collaboration members and a larger community, such as English, French, German, Italian, Portuguese, Spanish

Per type: starting with Open and Citizen science

Thank you for your attention

Contacts : Hector.Pillot@cern.ch

Claire.Adam.Bourdarios@cern.ch



Three level Tree

Find these “Success stories” categorized by Type of content, Scientific Topic, Targeted Audience and Language :



Property (Type, Topic, Audience, Language)

└ Category (Book, Matter & force, 4-12 yo)

└ Project



Latest projects for Books

Books are readable materials popularizing science in diverse manners.



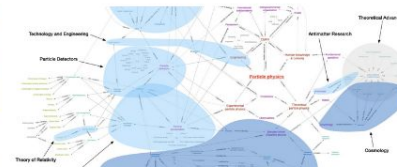
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Review of the Particle Physics Content High-School Physics Curricula

Impact studies Scientific method

This international curricular review provides a structured overview of the particle physics content in 27 state, national, and international high-school physics curricula. Overall, this international curricular review provides the basis for future curricular...

Related tags : [#Comics Book](#) · [#Magazine](#) · [#Children Book](#)



Engaging Young Minds with Particle Physics

Impact studies Scientific method


The Outreach team at Münster University identified that in Germany, students usually decide whether or not to continue their physics education around the age of 15. To address the problem, they focused on students aged 10 to 15 to give them a real insight in...

→ Explore

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Latest projects for Books

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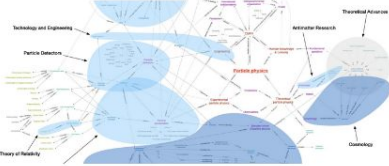


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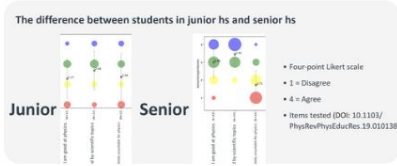


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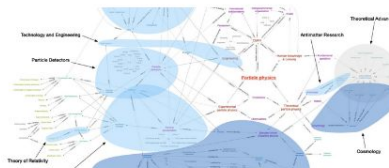
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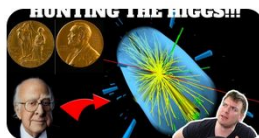
→

Categories & tag rework

	Topic	Type	Audience
RDB	18	11	6
	↓	↓	↓
New website	8 categories + 27 tags	5 categories + 25 tags	6

Tags & Categories

Category: Audience: Broad Public



Hunting the Higgs by Bad Boy of Science

April 24, 2025

Hunting the Higgs is a science show created by the Science communicator and comedian Sam Gregson. He wanted to create a gamified 1hr version of a particle physics masterclass, mixing guided and comedic lectures with interactive activities through all the steps of the scientific method, guiding the audience until they discover the Higgs for themselves.

[View post](#)



IGFAE Labs

April 24, 2025

The IGFAE Labs are newly created spaces directed towards responsible research and innovation (RRI) with society and its immediate surroundings.

[View post](#)



Physics pavilion in Pohoda music festival in Slovakia

April 24, 2025

Organization of a science pavilion (Magical science tent) during two meetings at the Pohoda music festival. The pavilion attracted up to 5 000 visitors with talks, workshops and even a very special electronic music DJ set.

[View post](#)



The Big Bang Stage at the Colours of Ostrava music festival

April 24, 2025

Various shows and workshops are hosted by the Big Bang Stage in the Colours of Ostrava Festival in Czech Republic. It attracted about 3000 visitors for 4 days through workshops, talks, and science shows.

[View post](#)



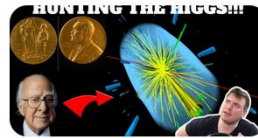
Open Days at CERN

April 23, 2025

The open day is a regular feature of the "long shutdown" during which the LHC stop, to benefit from upgrades and renovation work. During this time, the CERN opens its doors to the public for two days with visits of both the underground and the surface, involving about 2 800 volunteers. Each visit point offers...

[View post](#)

Tag: Accelerators & Collisions



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[View post](#)



The Quantum Prisoner - A great adventure at the heart of science and technology

The Quantum Prisoner is a free, browser-based adventure game with no registration needed. Players visit 25 science-related locations and play 30 minigames centered on scientific and technological concepts. This game combines a sci-fi narrative with actual scientific concepts and fantastic interpretations. Teachers can use this game as an educational tool by selecting specific minigames for...

[View post](#)



Particle Physics for Babies Book

The book is a particle physics talk without any words, it contains colorful physics-themed images that attract the attention of children. Together with the book there are free downloadable captions that allow parents/babys to learn about the LHC while reading them! The project comes from the reflection of a father who asked himself how to...

[View post](#)



ALICE HEPscape! in Finland

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