



*an event management system
from **CERN** to the 🌍*

Adrian Mönnich (CERN)

The screenshot shows the Indico website interface. At the top, there is a navigation bar with the Indico logo, a 'Public' status indicator, a location dropdown set to 'Europe/Zurich', and a user profile dropdown for 'A. Mönich'. Below the navigation bar is a search bar and a 'Create event' button. The main content area is titled 'Main categories' and features a list of event categories with their respective event counts:

Category	Event Count
CERN-Related Clubs, Associations and Forums	9,468 events
Committees	12,235 events
Conferences, Workshops and Events	10,658 events
Departments	119,348 events
Directorate	511 events
Experiments	877,298 events
Global Indico	10,908 events
Outreach	2,470 events
Projects	75,524 events
Schools, Seminars and Courses	12,101 events
TEST Category	72 events

Below the categories, there is a 'Welcome to Indico' message and a 'News' section with several articles, including 'Indico 3.3', 'Adding images to minutes', and 'Indico 3.2'. The footer contains the CERN logo, the text 'Powered by Indico v3.3-pre', and links for 'Help', 'Contact', 'Terms and conditions', 'URL Shortener', and 'Privacy'.

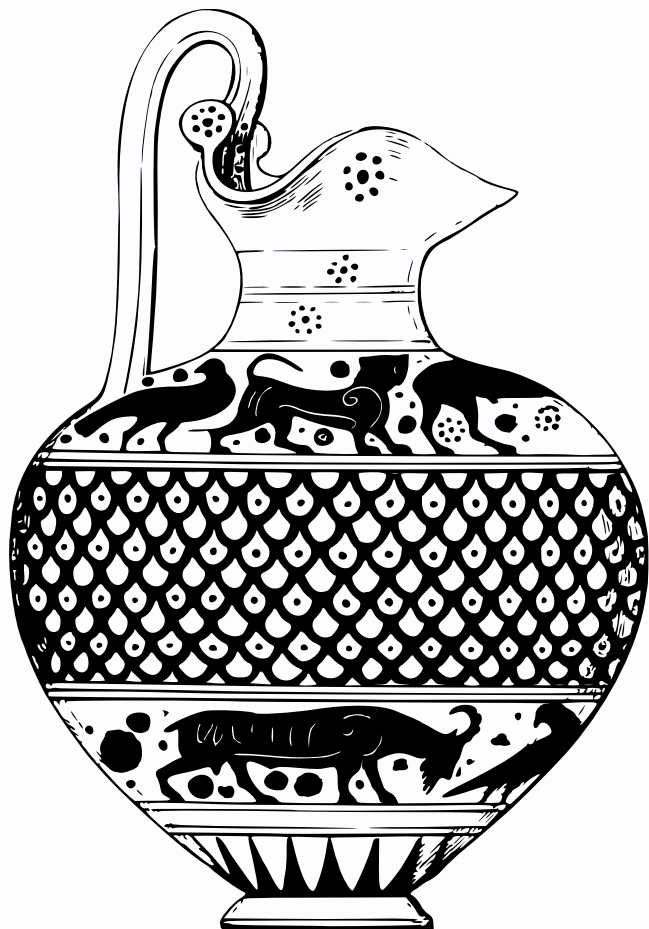


- **Event Management System**
- **Collaborative effort** - Open Source (MIT license)
- Core Developed at **CERN**
- ~ **75 developers** over the years
- With contributions from the **United Nations, Max-Planck Institute for Physics** and many others!



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
 - events.canonical.org
 - events.gnome.org
 - 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, SQL)**
- **2021 - Indico 3.0 (Python 3 🐍)**
- **2023 - 1 Million Events**
surpassed at CERN 🎉
- **2024 - 20 years!** 🎂



Open Source

- Free **redistribution**
- Distributed **peer review**
- **Transparency**
- **Community** with common goals



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More

How open-source software took over the world

Mike Volpi @mavolpi / 6:00 PM GMT+1 • January 12, 2019

Comment

It was just five years ago that there was an ample dose of skepticism from investors about the viability of open source as a business model. The common thesis was that **Red Hat** was a snowflake and that no other open-source company would be significant in the software universe.

Fast-forward to today and we've witnessed the growing excitement in the space: **Red Hat is being acquired by IBM** for \$32 billion (3x times its market cap from 2014); **MuleSoft** was acquired after going public for **\$6.5 billion**; **MongoDB** is now worth north of \$4 billion; **Elastic's** IPO now **values the company at \$6 billion**; and, through the **merger of Cloudera and Hortonworks**, a new company with a market cap north of \$4 billion will emerge. In addition, there's a growing cohort of impressive OSS companies working their way through the growth stages of their evolution: **Confluent**, **HashiCorp**, **DataBricks**, **Kong**, **Cockroach Labs** and many others. Given the relative multiples that Wall Street and private investors are assigning to these open-source companies, it seems pretty clear that something special is happening.

So, why did this movement that once represented the bleeding edge of software become the hot place to be? There are a number of fundamental changes that have advanced open-source businesses and their prospects in the market.

Mike Volpi Contributor

Mike Volpi is a general partner at **Index Ventures**. Before co-founding the firm's San Francisco office with Danny Rimer, Volpi served as the chief strategy officer at Cisco Systems.

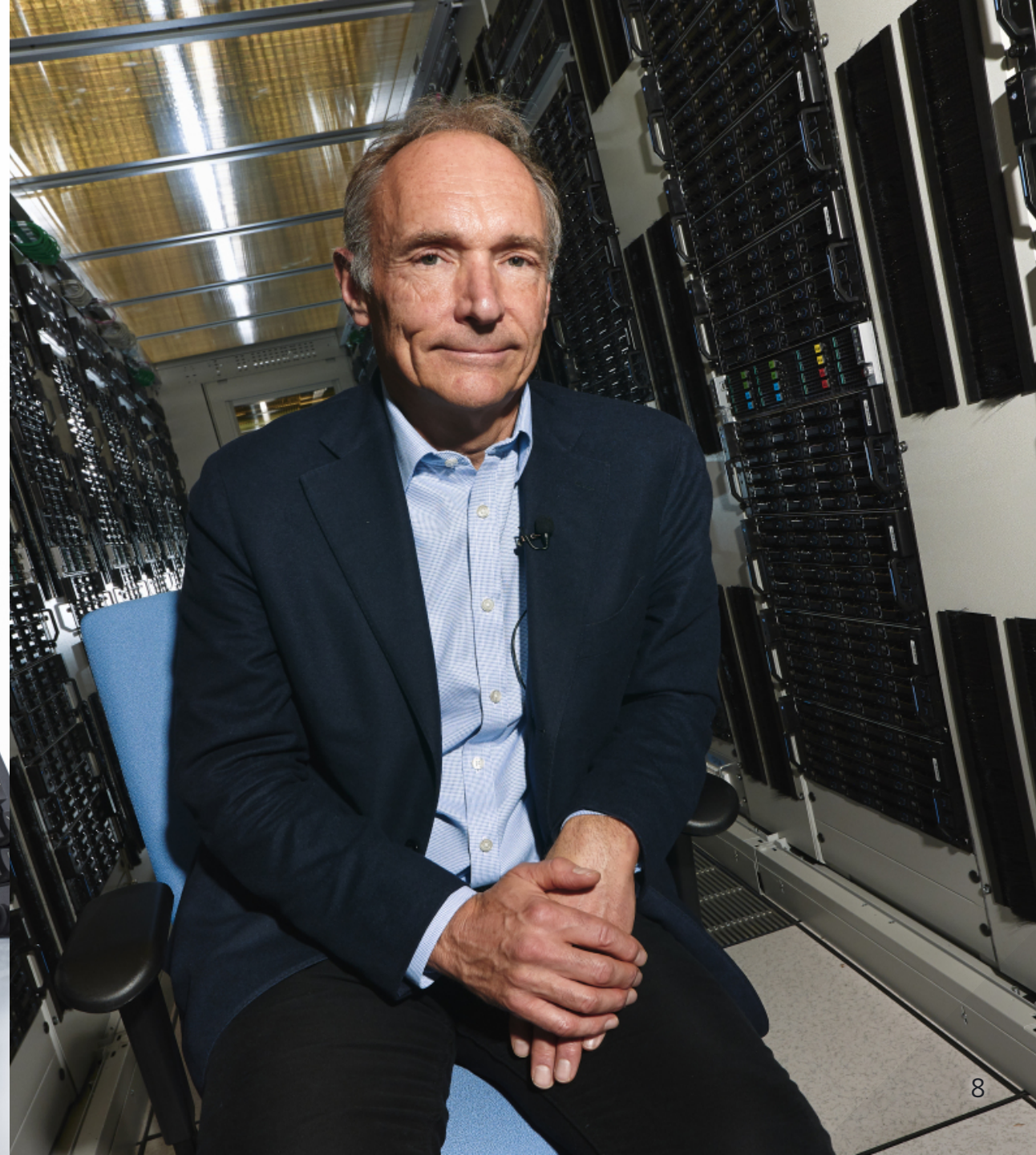
More posts by this contributor

• [Mike Volpi on the art of board membership](#)



Open Source

- Powering most of the internet
 - MongoDB, ElasticSearch, MySQL, PostgreSQL, Apache, **Linux...**
- **CERN** was a pioneer
 - World Wide Web
 - Indico, Invenio, ROOT...



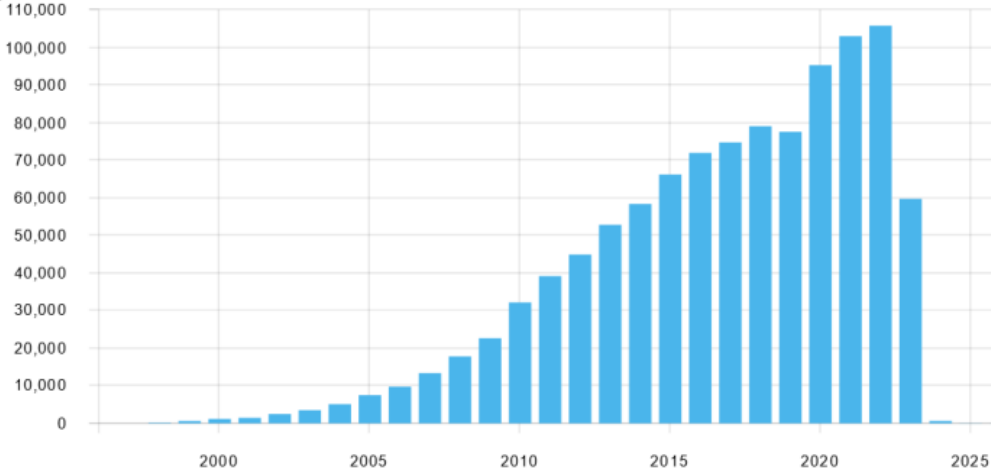


CERN

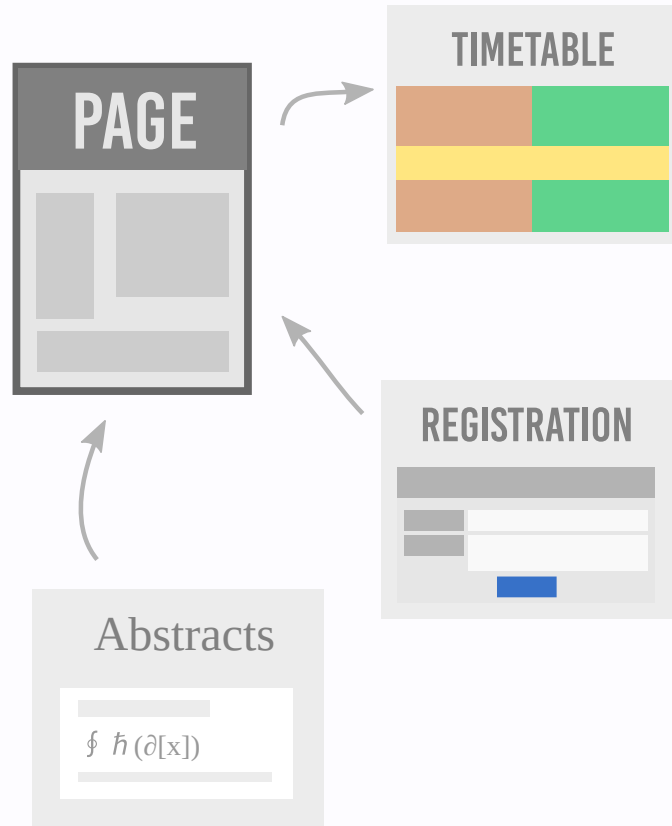
- ~**10.000** people on campus
- ~**225** meeting rooms
- >**100.000** events/year
 - up from 80k pre-COVID
 - **1.130.000** events total
- (Distributed) Meetings
- Conferences, workshops
- Lecture series

Adoption at CERN

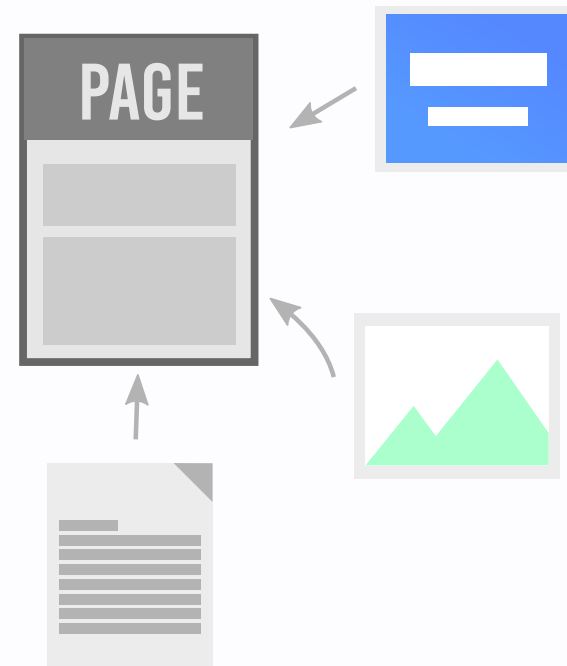
EVENTS BY YEAR



CONFERENCES WORKSHOPS



MEETINGS LECTURES



indico P

Room Booking Book a Room List of Rooms Bookings

Once Thu 9 Jan 17:00 - 18:00

Building Min. Capacity Equipment Show only...

Total 239 Available 149 Unavailable 52 Unauthorized 38

Available Booking Day Week Month 09/01/2020

Room	06:00	08:00	10:00	12:00	14:00	16:00	18:00	20:00	22:00
28/1-019 CDA Sprint Room							Available		
28/R-015			Booking				Available		
31/S-027		Booking	Booking				Available		
31/S-028		Booking	Booking		Booking		Available		
513/R-070 Openlab Space		Booking	Booking		Booking		Available		
600/R-001					Booking	Booking	Available		
600/R-002			Booking				Available		
2/1-034						Booking	Available		
3/R-002 Teacher Training Ro...							Available		
4/3-001		Booking	Booking	Booking			Available		
4/3-006 TH Conference Room					Booking		Available		
4/R-050			Booking	Booking			Available		

Map showing room locations: 6, 6, 56, 48, 7, 14

Select area

Leaflet | © OpenStreetMap contributors

<https://indico.cern.ch>



Philosophy

- "Agnostic" **core** ("CERN-free")
- Extension through **plugins** 🧩
- **Themes** 🎨 (customization)

Under the Hood

- Python 3 🐍
- PostgreSQL 🐘
- Flask
- SQLAlchemy
- Celery
- React
- Semantic UI React
- *and many more!*



Extensions

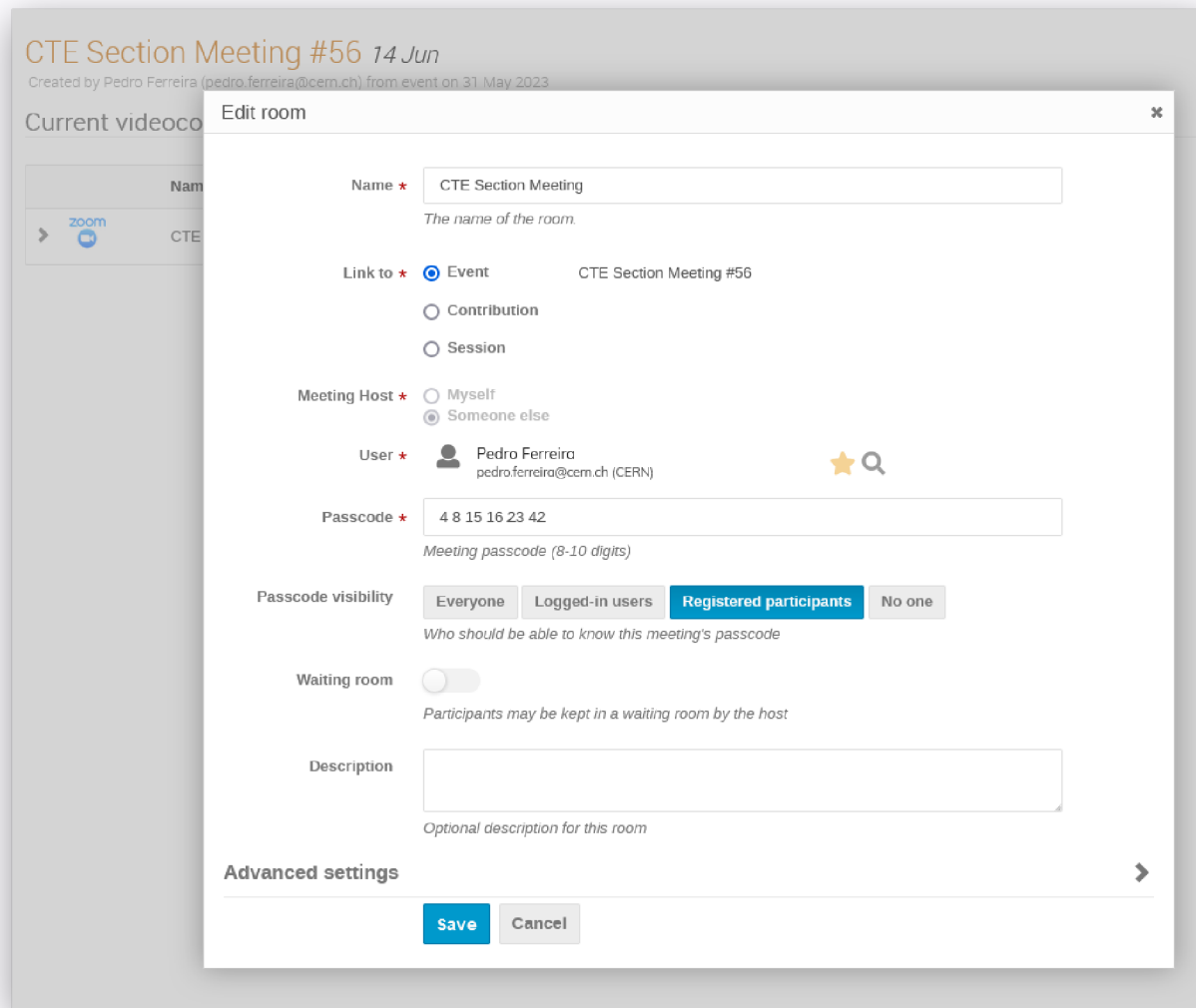
- Video conferencing 🖥️
- Payment Systems 💰
- Automatic conversion to PDF 🖨️
- Search 🔍
- Storage 💾
- OwnCloud integration 📁 (material upload)
- URL Shortening 📌
- Internal Workflows (e.g. recording, visitors)

Zoom

The screenshot shows a Zoom meeting invitation interface. At the top, the meeting title is "CTE Section Meeting #56" with a share icon. Below the title, the date and time are "Wednesday 14 Jun 2023, 16:00 → 16:30" in the "Europe/Zurich" time zone, and the host is "Pedro Ferreira (CERN)".

The invitation is divided into three sections:

- Videoconference:** Shows the Zoom meeting name "CTE Section Meeting" with a "Join" button and a dropdown arrow.
- Registration:** States "You are registered for this event." with a "Check details" button.
- Participants:** Lists seven participants with their profile pictures: Adrian Mönnich, Dominic Hollis, Duarte Galvao, Pedro Ferreira, Rene Fernandez Sanchez, Ruben Domingo Gaspar Aparicio, and Tomas Roun.




https://github.com/indico/indico-plugins/tree/master/vc_zoom





Electronic Payment

Payments

Event-wide payment settings

 **General settings**
Configure general settings for payments. [Configure](#)

Payment methods

 Manual enabled	 Bank Transfer disabled	 PostFinance CERN enabled	 PayPal disabled
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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 Accepted	Room assistance	Videoconference assistance	Webcast / Recording 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



Webcast / Recording

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 (pferrei) 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

Event details
Date: Thursday 01 Feb 2024, 17:03 — 17:03 (Europe/Zurich) Location: 500/1-001
Speaker(s): Kerstin Tackmann

Issues during the playback?
Contact us using this form.

Event page **indico**

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

ownCloud integration

Add files from CERNBox

Home / eos / project / i / indico / presentations / 2024

- fosdem_indico.drawio
2.3 MB - Last modified 1 month ago
- fosdem-prez.pdf
23.7 MB - Last modified 1 month ago
- fosdem-slide.png
4.6 MB - Last modified 1 month ago

Convert to PDF

If enabled, your files will be converted to PDF if possible. The following file types can be converted: doc, docx, htm, html, odp, odt, ppt, pptx

Folder No folder selected

Adding materials to folders allow grouping and easier permission management.

Protected

Access control list This list is currently empty

+ User Group Registrants -

The list of users and groups allowed to access the material

Public
This object is publicly accessible since Indico: an Open Source event management system (Contribution) is not protected.

Add **Cancel**

Hotdesks

The screenshot displays the Burotel hotdesk booking interface. At the top, there is a navigation bar with the Burotel logo and menu items: 'Book a Desk', 'List of Spaces', and 'Bookings'. Below the navigation bar, there is a filter section with a date range of 'Daily' and 'Fri 1 Feb - Fri 8 Feb', and dropdown menus for 'Building', 'Equipment', and 'Experiment'. A search bar is located below the filter section. A summary bar shows the following statistics: Total 624, Available 487, Unavailable 35, and Unauthorized 102. The main content area displays three desk categories, each with a grid icon and a count:

- 1/R-030** (1 desk):
 - 1/R-030 - Desk 01/02 ALICE
 - 1/R-030 - Desk 02/02 ALICE
- 8/1-018** (8 desks):
 - 8/1-018 - Desk 01/03 CMS
 - 8/1-018 - Desk 02/03 CMS
 - 8/1-018 - Desk 03/03 CMS
- 12/1-010** (12 desks)

Each desk card includes a checkmark icon and a search icon. On the right side of the interface, there is a map showing the building layout with numbered markers (12, 13, 16, 50, 143, 42) and a 'Show only rooms in this area' checkbox. The map is powered by Leaflet and OpenStreetMap contributors.

Themes / Customization

The screenshot displays the 'International Linear Collider :: Agenda' website. The header includes the ILC logo, navigation links for 'Home' and 'Create event', and regional/language settings for 'Europe/Zurich' and 'English (United Kingdom)'. A search bar and utility buttons for 'Create event', 'Navigate', and a calendar icon are also present.

Main categories

Welcome to Indico. The Indico tool allows you to manage complex conferences, workshops and meetings. To start browsing, please select a category below.

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	→

News [more...](#)

- Indico 3.3**
Posted 21 Dec 2023
- Indico 3.2**
Posted 22 Jun 2022
- Indico 3.1**
Posted 8 Jan 2022

Powered by **indico** v3.3-pre [Help](#) | [Contact](#)

Themes / Customization

The screenshot shows a meeting agenda for the 'FCC-hh physics analysis meeting' on Thursday, 29 Nov 2018, from 16:00 to 18:00 at CERN. The agenda includes four items, each with a duration, speaker information, and a PDF link.

Time	Topic	Speakers	Duration	PDF Link
16:00 → 16:10	Introduction	Speakers: Filip Moortgat (CERN), Heather Gray (LBNL)	10m	FCC_Intro_Nov29.pdf
16:10 → 17:00	Update on tgq constraints from single top production	Speaker: Lev Dudko (M.V. Lomonosov Moscow State University (RU))	50m	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)	30m	FCCphysics_hhbbb...
17:30 → 17:50	Update of HH->bb4l	Speaker: Elisa Fontanesi (Universita e INFN, Bologna (IT))	20m	FCC-hh meeting (29...

Themes / Customization

The screenshot shows the website for the Higgs 2020 online conference. At the top, there is a navigation bar with icons for home, back, forward, search, and other functions. The main header features a large 'H' and 'IGGS 2020' text, with 'Online conference' and 'October 26-30' to the right. Below the header, there is a search bar and a note about a live webcast. The main content area is divided into a left sidebar with a table of contents and a main text area. The table of contents includes: Overview, Call for Abstracts, Timetable, Registration, Session conveners, Participant List, Contribution List, Special event, Bulletins, Chairs and speakers infos, Zoom connection links, Breakout Rooms, and Committees. The main text area contains a notice about the postponement of the in-person conference, a Twitter link, a description of the conference, and Zoom links for plenary and parallel sessions.

Public Europe/Rome P. Ferreira

H IGGS 2020

Online conference

October 26-30

Higgs 2020
26-30 October 2020
Europe/Rome timezone
There is a [live webcast](#) for this event.

Search...

Overview

- Call for Abstracts
- Timetable
- Registration
- Session conveners
- Participant List
- Contribution List
- Special event
- Bulletins
- Chairs and speakers infos
- Zoom connection links
- Breakout Rooms
- Committees

Due to the ongoing Covid-19 pandemic the in-person Higgs conference at Stonybrook/BNL is postponed to 2021. Nevertheless, Higgs 2020 will proceed online this year.

Follow us on Twitter: [@HiggsConference](#)

Higgs 2020 (former Higgs Couplings) is this year's installment of an annual conference devoted to new experimental and theoretical results on the Higgs boson. The 2020 conference will present the latest results from the LHC on the Higgs boson mass, spin/parity, and couplings and will present new theoretical work devoted to the measurement of Higgs parameters and possibilities for exotic Higgs decays. The conference will provide an opportunity for critical discussion of the current strategies for studying the Higgs boson at the LHC and the next steps beyond the LHC. Higgs 2020 will include several sessions of parallel contributions on current research topics.

Zoom connection for Plenary Sessions

<https://cern.zoom.us/j/97061949349>

Zoom connections for Parallel Sessions

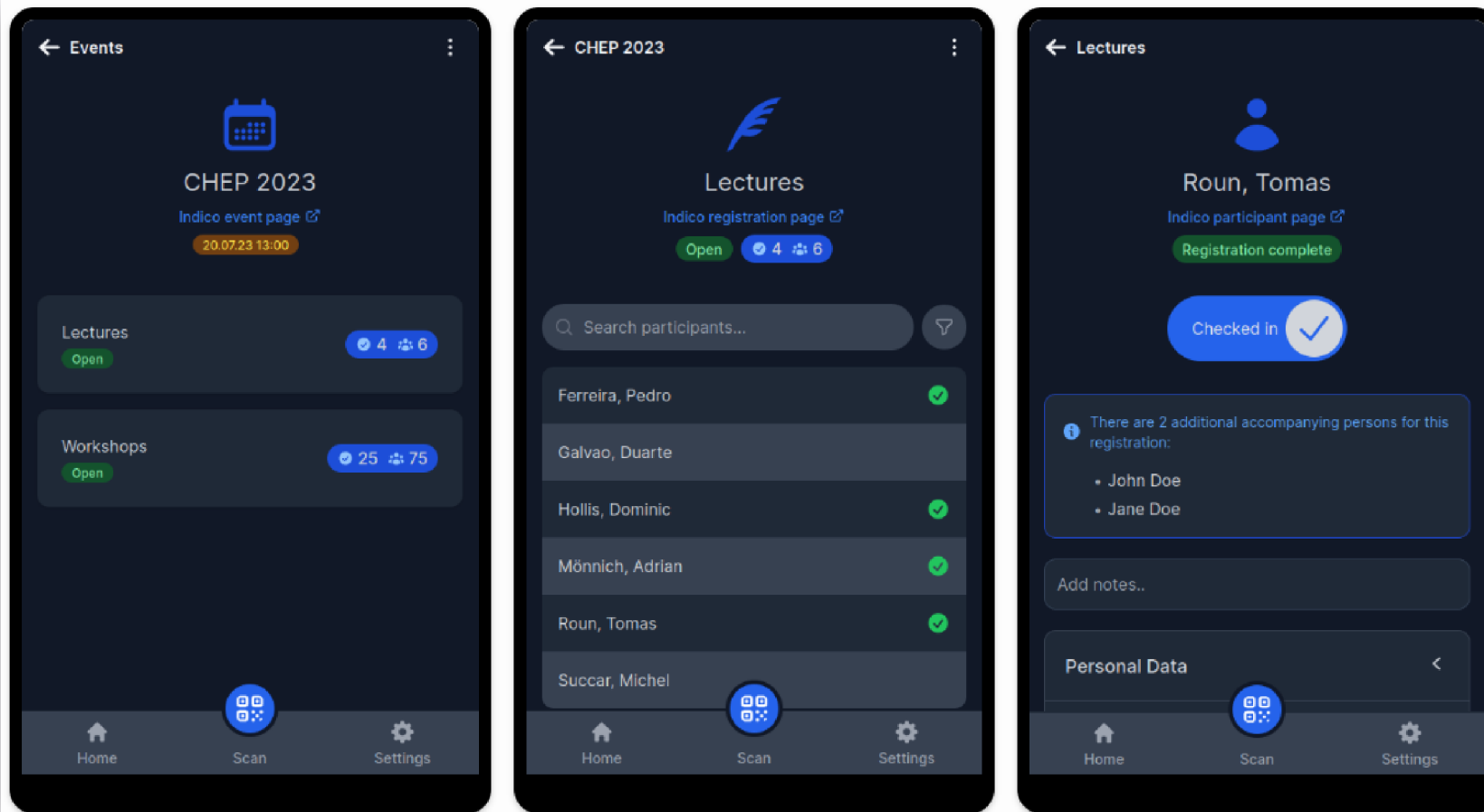
Session A (Precision): <https://cern.zoom.us/j/99197698239>

Session B (Yukawa): <https://cern.zoom.us/j/94061343557>

Session C (H-H): <https://cern.zoom.us/j/94128951251>

Session D (CP): <https://cern.zoom.us/j/94128951251>

Check-in App (PWA)



indico Community

Sign Up Log In

all categories Categories Latest Top

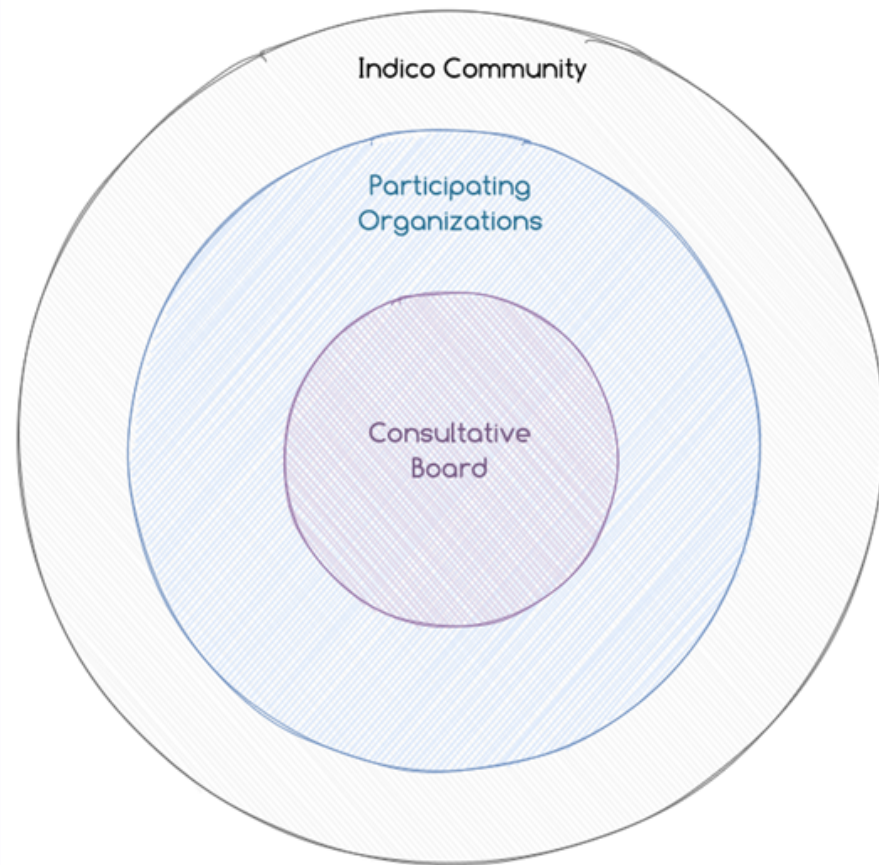
Category	Topics	Latest
Administrators For exchanges and requests for help regarding installation, maintenance and administration of Indico. Migration from 1.2 to 2.0	585	Welcome to the Indico Community Forums 2 Aug '17
Announcements For official announcements from the indico team, e.g. about new releases.	19	How to configure SAML SSO with Ping? 0 5h Administrators
General Discussion Topics that don't need a category, or don't fit into any other existing category.	513	Indico 3.2 released [v3.2.8] 15 20h Announcements
Internationalization and Localization Coordination of translation groups and general advice on translating Indico to other languages.	43	LDAP group membership resolution 1 21h
Development Discussions on the development of Indico plugins and modules. Accessibility Plugin Development	222	Translation into Vietnamese language 1 1d Internationalization and Localization
Site Feedback Discussion about this site, its forum, how it works, and how we can improve it.	4	Can Indico be used for managing sporting events 1 8d
		Reverse proxy internal IP 10 9d Administrators
		Creating an event via HTTP API 6 9d
		Session & registration 2 12d Administrators
		Japanese (ja) translation group 16 12d Internationalization and Localization
		Polish (pl) translation group 141 13d Internationalization and Localization

To summarize

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

Governance Model NEW

	Contribution	Influence
Indico Community	Voluntary	Ideas and suggestions
Participating Organizations	Significant (code, translations, outreach, etc.)	Attend community meetings, a say in community resource allocation
Consultative Board	Particularly relevant	Approve roadmap and steer general Project development





Get involved!

- Do you run an Indico instance and want to support the project?
- Maybe **your** organization would like to become a **Participating Organization**?
- Reach out to us if you're interested!
✉ indico-team@cern.ch
- Detailed governance policy:
<https://github.com/indico/governance>

Glimpse into the future

Picture: "Crystal Ball" by Jeffrey (CC BY-ND)



v3.3 - coming very soon

- **Privacy features**
 - Yep, we still *love* GDPR
 - User-accessible dump of everything they are linked to
 - Accept privacy notice during registration / signup
 - Admin tool to anonymize an account
- Receipt/certificate generation
 - Fully customizable templates for PDF generation
- And many more smaller improvements



v3.4 - later this year

- **Rewrite of the conference timetable** & timetable management in React
 - Rare cases will take the most time... e.g. heavily parallel conferences
- Remove most (all?) ultra-legacy JS (from before jQuery)
 - Opens the door for improving our build pipeline

Find us online

 @getindico@fosstodon.org

 @getindico

[m] #indico:matrix.org

#indico on libera.chat IRC

 getindico.io

 github.com/indico/indico

 indico-team@cern.ch



indico