

Indico V3 @ FAIR and GSI

Indico Installation at FAIR and GSI, Darmstadt

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Indico Workshop 2025 – 06/05/2025

About FAIR and GSI



© D. Fehrenz, GSI/FAIR

Dipole installation



© Lars Möller, GSI/FAIR

- GSI Helmholtzzentrum für Schwerionenforschung
Operates large-scale accelerator for heavy ions
~1500 employees + ~1200 guest researchers
- Facility for Antiproton and Ion Research in Europe
International accelerator facility, currently being built

Indico at FAIR and GSI

- URL: <https://indico.gsi.de>
- Version 3.3.6
- Debian 12 Bookworm VM with 4 cores and 12G RAM
- Database on local PostgreSQL 16 installation
(planning to move to central PostgreSQL 17 server
as soon this is ready)
- Login via LDAP (“GSI Weblogin”) or local account
- Style adapted to GSI web site style
(css, templates(, js) in [CUSTOMIZATION_DIR](#))

Indico at FAIR and GSI

The screenshot shows the Indico website interface. At the top left is the FAIR GSI Indico logo. On the top right, there are navigation links for "Europe/Berlin", "Deutsch", and "Einloggen". Below the logo is a navigation bar with "Hauptseite" and "Veranstaltung erstellen". The main content area is titled "Hauptkategorien" and includes a search bar and a "Veranstaltung erstellen" button. A welcome message states: "Willkommen bei Indico. Indico ermöglicht es Ihnen komplexe Konferenzen, Workshops und Besprechungen zu verwalten. Um sich umzuschauen, wählen Sie eine der folgenden Kategorien". Below this is a table of event categories:

Accelerator Operations	754 Veranstaltungen	→
ALICE	1.874 Veranstaltungen	→
APPA	7 Veranstaltungen	→
Atomphysik	294 Veranstaltungen	→
BIO Physik	192 Veranstaltungen	→
Board of FAIR Collaborations	32 Veranstaltungen	→
CBM	7.573 Veranstaltungen	→

On the right side, there is a "Nachrichten" (News) section with a "mehr..." link. It lists several news items: "Notes on version 3.3" (dated 09.01.2025), "Zoom plugin installed" (dated 05.05.2021), and "Notes on version 2.3" (dated 19.04.2021). Below the news is a "Bevorstehende Veranstaltungen" (Upcoming Events) section, which lists "Secondary source developments at PHELIX - From diagnostics to applic..." (starting tomorrow) and "PANDORA: A New Experimental Setup for Measuring in-Plasma Nuclea..." (starting tomorrow). At the bottom of the news section, there is a "C++ User Group" event (starting Wednesday).

GSI Customization

In `CUSTOMIZATION_DIR`

- ~ 20 directives in `.../css/GSIstyles.css`
- FAIR/GSI logos, favicon (🌐) in `.../files/...`
→ set directly in `indico.conf`
- Several templates under `.../templates/core/...`
`footer.html`, `/core/contact.html`
`auth/login_page.html`, `auth/_login_form.html`
`events/...` (→ Emails adapted)
`vc/manage_event.html`
- `.../js/...` (→ VC room deletion)

GSI Customization

Login Page and Footer

Logos



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Benutzungsbedingungen](#) zu.

Link to reset LDAP password

Username
Password

[Passwort vergessen](#)

Login mit GSI Weblogin

oder Authentifizierungsart ändern

Indico

Wenn Sie noch kein Indico-Konto haben, können Sie es [hier
erstellen](#)

[← Zurück](#)



Powered by Indico v3.3.6

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Adapted footer



GSI Customization

Meeting/Lecture Themes

Plugin *GSI Themes* (adapted from *CERN Themes*)

→ Meeting/Lecture themes for our collaborations,
FAIR meetings, FAIR-GSI meetings/lectures, ...

 <p>Physics Symposium during the 32nd CBM Week</p> <p>📅 Wednesday 3 Oct 2018, 09:00 → 18:00 Europe/Berlin</p> <p>📍 Lecture Hall (GSI)</p>		<p>12th Machine Advisory Committee</p> <p>📅 17 Nov 2014, 12:00 → 18 Nov 2014, 15:00 Europe/Berlin</p> <p>📍 KBW Lecture Hall & Side Room</p>
 <p>2nd PhD Science Day @ GSI 2014</p> <p>📅 Monday 11 Aug 2014, 14:00 → 17:05 Europe/Berlin</p> <p>📍 Main Auditorium (GSI Helmholtz Center for Heavy Ion Research GmbH)</p>		
 <p>IT-Palaver</p> <p>Indico bei FAIR und GSI</p> <p>durch Stefan Hesselbach (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI))</p> <p>📅 Dienstag 26.10.2021, 10:00 → 11:15 Europe/Berlin</p> <p>📍 SB3.3.170a (Seminarraum Theorie) and via Zoom (GSI)</p>		also as numbered meeting

Adapted Email Templates

- **Registration emails to managers**

`registration_creation_to_managers.html`

`registration_modification_to_managers.html`

Date and time of event added (as for emails to registrants)

For lecture series/training course
(many events with identical title)

Could maybe go to into Indico?

- **Event reminder** `event_reminder.txt`

Complaints about German subject
“**Erinnerung an Ereignisse**”

Translation (temporarily) removed

History at GSI

- Test installation since about 2008
- This gradually became productive
- 2011 upgrade from V0.96.2 to V0.97.1 → style adaptations
- 2014 upgrade to V1.0
- 2017 upgrade to V1.2.2
- 2020 upgrade to V2.2 → migration to PostgreSQL DB
- 2021 upgrade to V2.3 → Zoom plugin installed
- 2025 upgrade to V3.3 → Python 3

Plugins used

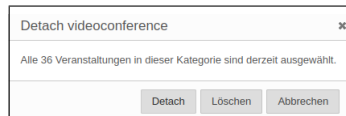
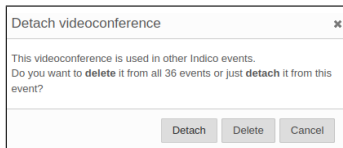
GSI Themes

- Meeting/Lecture themes
- Revised version for Indico 3 (Python 3)
- Adapted from *CERN Themes*
<https://github.com/indico/indico-plugins-cern>
- Creation in development installation → Python Wheel
- Wheel in GSI GitLab Package Registry

Plugins used

Zoom

- (Again) heavily used (Zoom licenced for GSI/FAIR)
- Customization:
Only Zoom hosts are allowed to delete their meetings
`manage_event.html`, Javascript (`global.eventManageVCRooms`)
- Problem: Wrong translation in delete button popup



(Temporarily solved in js customization)

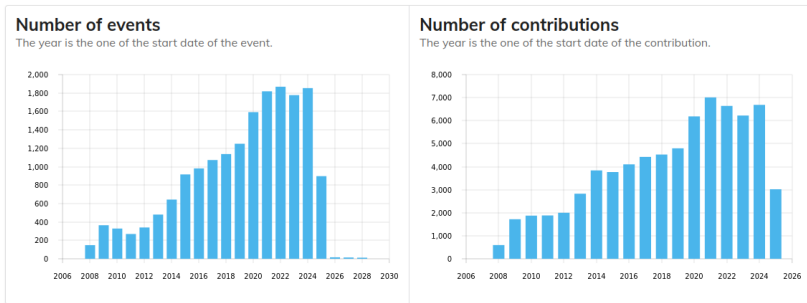
Usage at GSI

- Main system for
 - conference/meeting organization (registration, ...)
 - lectures series management
- "Week's events" linked as calender on GSI website
<https://indico.gsi.de/category/0/overview?period=week>
- Certain categories feed list of seminars in our weekly online newspaper
<https://www.gsi.de/en/kurier>

Usage at GSI

Statistics

<https://indico.gsi.de/category/0/statistics>



18,059

TOTAL NUMBER OF EVENTS

72,921

TOTAL NUMBER OF CONTRIBUTIONS

64,908

NUMBER OF ATTACHMENTS

10,774

NUMBER OF USERS

Last updated on: April 30, 2025 11:04 AM

User accounts

- LDAP login (“GSI Weblogin”)
 - For GSI users
 - Login/Authentication works out of the box after proper configuration in `indico.conf`
(<https://docs.getindico.io/en/latest/config/auth/#ldap>)
 - Use of LDAP groups needs adaptations to code because of missing *member of* attribute
- Local Indico accounts
 - External participants in conferences
(abstracts, workflows ...)
- Now in total > 10700 profiles

Access control via LDAP groups

- Enabled since V1.0
- Used by our Collaborations for private content

Board of FAIR Collaborations	32 events	🛡️ ➡
CBM	7,577 events	➡
Committees	102 events	➡

- Adaption of code
 - *member of* attribute missing
 - ~ 10 lines of code in `.../flask_multipass/providers/ldap/providers.py`
 - Question: Integration into `flask_multipass`?
→ 1 more parameter

Outlook

Room Booking

The screenshot displays the Indico Room Booking interface. At the top, there is a blue header with the FAIR logo, the text "Indico", and a "SH" logo. Below the header is a green navigation bar with the following items: "Room Booking" (with a home icon), "Book a Room" (with a plus icon), "List of Rooms" (with a list icon), and "Bookings" (with a calendar icon). The main content area features an aerial photograph of a large building complex. A white modal window titled "Start your booking..." is centered over the image. This modal contains three radio buttons for booking types: "Single booking" (selected), "Daily booking", and "Recurring booking". Below these are input fields for a date (2025-04-30), start and end times (17:00 and 18:00), and a room name (e.g. IT Amphitheatre). A blue "Search" button is positioned at the bottom of the modal. At the bottom of the page, a white bar displays four statistics: "2 ACTIVE ROOMS", "2 BUILDINGS", "0 BOOKINGS TODAY", and "0 ACTIVE BOOKING REQUESTS".




Change of background via CSS




Outlook

Room Booking

- Room list

Location: GSI Campus Planckstraße Add room

 SB1.1.100 - Hörsaal  

 SB3.3.170a - Theorie Seminarraum  

- Constraints (as given in [Help](#))

- Only one manager per room → account with room's email
- Numerical only building number
→ seems nevertheless to work

Outlook

Single Sign On/Federated Login

- GSI Single Sign On in development
- Plans to connect GSI Indico
- Problem: How to handle external users (abstracts, workflows)
- Additionally some Federated Login etc. necessary.

Remark from last Upgrade to 3.3.6

- Upcoming events dominate for ~ 1200 pixel width

681 Veranstaltungen

Accelerator Operations

ALICE

Bevorstehende Veranstaltungen

Test Meeting Lo...
ab Morgen

KHuK Jahrestagung / Annual Meeting 2025
ab 11.12.2025

- Temporarily solved with `max-width` in CSS

Final remarks

- Summary
 - FAIR-GSI Indico runs with V3.3.6
 - Customization/adaptions of web site style, meeting themes, LDAP groups, ...
 - Outlook
 - Room booking
 - Single Sign On
- Thanks to
 - Indico team + contributors
 - Translation groups