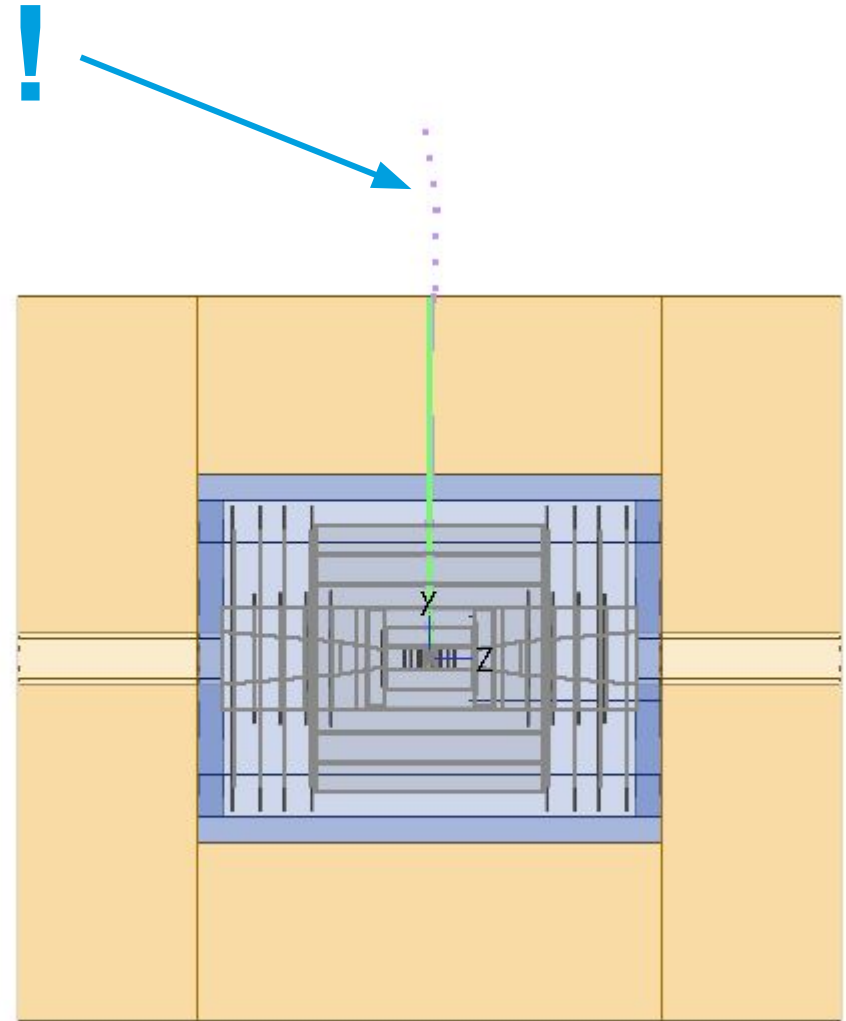


Intro and miscellanea

Federico Meloni (DESY)

Ben Rosser (University of Chicago)

Informal detector team meeting 27/07/2023



Key4hep-based image available

<https://hub.docker.com/r/madbaron/k4test-ubuntu>

```
docker pull madbaron/k4test-ubuntu
```

```
docker run -it -e DISPLAY=$IP:0 -v /path/to/local/data:/data --rm  
madbaron/k4test-ubuntu
```

```
source setup.sh
```

Updated geometry and CaloHitSelector processor.

- **Make sure you grab the latest version!**

Thomas has prepared an Icio converter that creates tracks with proper links to the hits

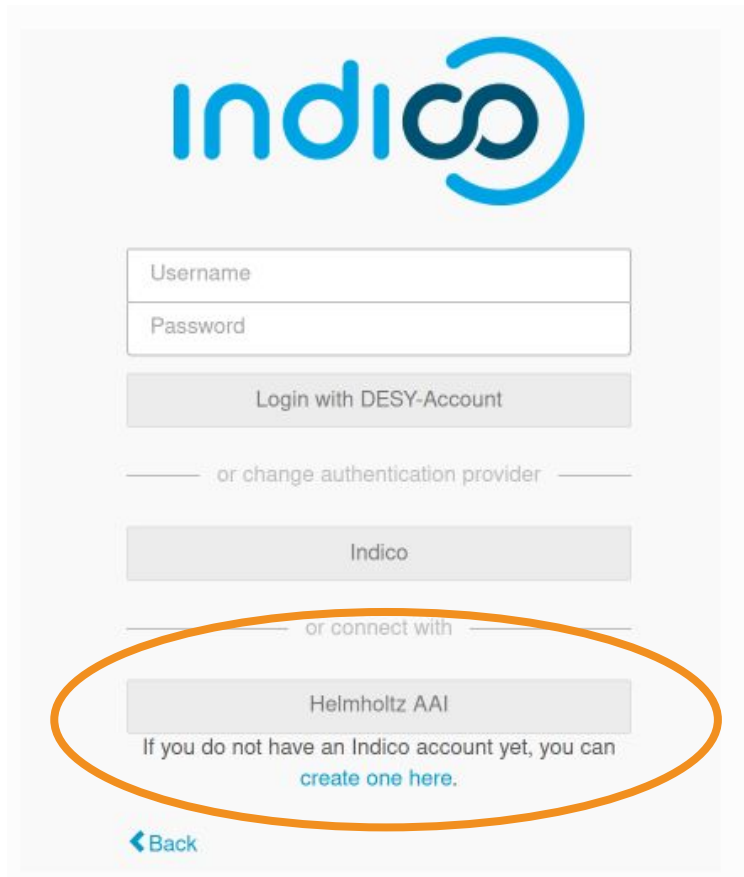
Updates to v0A geometry

Finally added the magnetic field in the standalone muon spectrometer

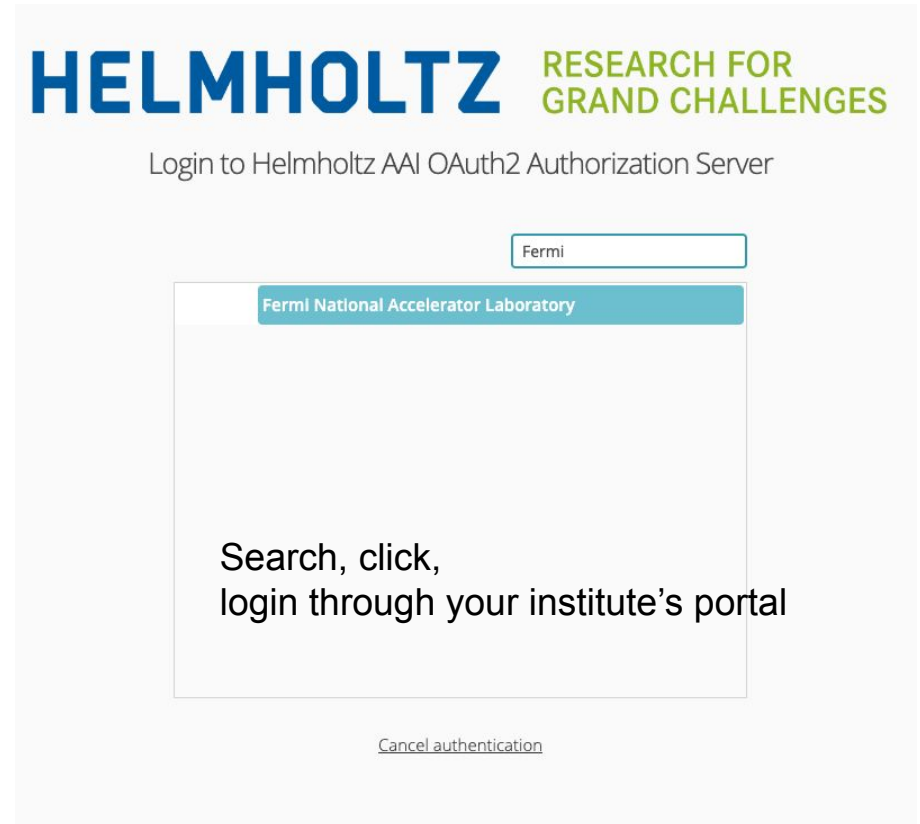
- Added a 5T magnetic field outside of the HCal
- Script to generate custom magnetic field map [here](#)
 - Now writing a `dd4hep::ToroidalField` to be more efficient (no interpolation)
- Got rid of the “silicon shells” and used CLIC’s implementation of RPCs instead (i.e. I removed the iron from the yoke, and kept the rest the same)
 - We can reconstruct muons with the software as is (TBC: the curvature now is in a different plane)
 - Long term: evolve `DDSimpleMuonDigi` into a processor that creates tracker hits, and to muon tracking with ACTS
- Visualisation I can’t get `ced2go` to show only the RPC chambers instead of the whole “yoke” volume.
 - Can somebody help?

Thank you!

Logging in DESY indico



The image shows the DESY indico login page. At the top is the indico logo. Below it are two input fields for 'Username' and 'Password'. A button labeled 'Login with DESY-Account' is positioned below the password field. A horizontal line with the text 'or change authentication provider' is below the button. Another button labeled 'Indico' is below the line. A second horizontal line with the text 'or connect with' is below the 'Indico' button. A button labeled 'Helmholtz AAI' is below this line and is circled in orange. Below the 'Helmholtz AAI' button, there is text: 'If you do not have an Indico account yet, you can [create one here.](#)'. At the bottom left is a blue arrow pointing left with the text 'Back'.



The image shows the HELMHOLTZ RESEARCH FOR GRAND CHALLENGES login page. At the top is the HELMHOLTZ logo in blue and 'RESEARCH FOR GRAND CHALLENGES' in green. Below the logo is the text 'Login to Helmholtz AAI OAuth2 Authorization Server'. A search bar with the text 'Fermi' is at the top right. Below the search bar is a blue button labeled 'Fermi National Accelerator Laboratory'. Below this button is a large white box containing the text 'Search, click, login through your institute's portal'. At the bottom right of the page is a link labeled 'Cancel authentication'.

Full instructions at

<https://indico.desy.de/news/6-using-helmholtz-aai-as-login-method>