



# Software for PED studies

# Information and News

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FCC General Software Meeting  
CERN, 2/R-030 and zoom

Sep 25, 2023  
G Ganis, CERN-EP

# Recent activities



- By-weekly meeting on full simulation and reconstruction
  - [28 Aug 2023](#)
    - ARC integration in CLD
    - Full sim HNL studies with CLD
- ECFA workshops
  - [Generators: Technical benchmarks](#), 18 September, Zoom

# EOS situation: two large projects



- [/eos/experiment/fcc](#) (500 TB | 5 M files; **96.5% used**)
  - Roughly half used by FCC hh files used for CDR
    - Includes [/eos/experiment/fcc/prod](#), the FCC@iLCDirac Storage Element

```
└─> Quota Node: /eos/experiment/fcc/
```

| group   | used bytes | logi bytes | used files | aval bytes | aval logib | aval files | filled[%] | vol-status | ino-status |
|---------|------------|------------|------------|------------|------------|------------|-----------|------------|------------|
| project | 965.36 TB  | 482.68 TB  | 4.57 M     | 1.00 PB    | 500.00 TB  | 5.00 M     | 96.54 %   | warning    | warning    |

- [/eos/experiment/fcc/ee/analyses\\_storage](#) (200TB | 0% used)
  - Access controlled by egroups managed by physics groups conveners
    - fcc-eos-write-ee-analysis-{bsm,ew-qcd,flavour,higgs-top}

```
└─> Quota Node: /eos/experiment/fcc/ee/analyses_storage/
```

| group   | used bytes | logi bytes | used files | aval bytes | aval logib | aval files | filled[%] | vol-status | ino-status |
|---------|------------|------------|------------|------------|------------|------------|-----------|------------|------------|
| project | 0 B        | 0 B        | 2          | 280.00 TB  | 140.00 TB  | 0          | 0.00 %    | ok         | ignored    |

# EOS space evolution



- Archiving (CTA) can be used to free space in the main project
  - Candidates for archival
    - All data used for CDR but not usable any longer
      - 102T /eos/experiment/fcc/hh/generation/DelphesEvents
      - 30T /eos/experiment/fcc/hh/generation/DelphesStandalone
      - 132T /eos/experiment/fcc/hh/generation/
      - 136T /eos/experiment/fcc/hh/simulation/samples
      - 136T /eos/experiment/fcc/hh/simulation/
  - Working with IT on **highlighted** areas
    - Will allow to free ~160 TB
      - Fragile operation ...
- Ask for more space
  - There is probably room for that, although not for free
    - This a place where country resources could play a role
  - Use first studies with full simulation to improve estimation on needs

# 7th FCC Physics Workshop



- Location: LAPP, Annecy-le-Vieux
- Developing Indico: <https://indico.cern.ch/event/1307378/>
- Definition of Scientific Program started
- Plan to have several software sessions, plenary and parallel
- Goal is to address all missing parts relevant for the FSR


# Next meeting



- October 23rd (TBC)
  - Developing agenda: <https://indico.cern.ch/event/1329582/>
- Proposals for contributions welcome


# This meeting




**FUTURE CIRCULAR COLLIDER**


## FCC Software Meeting

Monday 25 Sept 2023, 16:00 → 18:00 Europe/Zurich  
2/R-030 (CERN)


Videoconference  FCC Software Meeting [Join](#) 2/R-030

Registration  *You are registered for this event.* [Check details](#)


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**16:00** → 16:15 **Status of things** ⌚ 15m 


Speaker: Gerardo Ganis (CERN)


**16:15** → 16:35 **Status of FCC@ILCDirac** ⌚ 20m 

Speakers: Andre Sailer (CERN), Lorenzo Valentini (Universita e INFN, Padova (IT))


**16:35** → 16:50 **Inspecting EDM4hep files** ⌚ 15m 

Speaker: Juraj Smiesko (CERN)

 Inspecting EDM4he...

**16:50** → 17:05 **A ROOT-based event display of the LAr EM calorimeter** ⌚ 15m 

Speakers: Giovanni Marchiori (APC, CNRS/IN2P3 and Université de Paris), Tong Li (APC Paris, CNRS/IN2P3)

**17:05** → 17:25 **Phoenix Enhancements: Scale and navigation** ⌚ 20m 

Speakers: Somya Bansal (GSOC), Juraj Smiesko (CERN)