

#### Software for PED studies

# FCC @ iLCDirac: setting the context

FCC Software Meeting CERN, Zoom

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# Why iLCDirac?



- Currently still using home-made solution (HTCondor, EOS, ...)
  - Served well CERN-based productions (CDR, Spring 2021, Winter 2023)
- Inclusion of non-CERN resources desired
  - Main requirements: central file catalogue, replication, remote access
  - Major development for the in-house system
- iLCDirac: LC community DIRAC instance
  - Workload management, file catalogue used by LHCb, Belle II, BES III, JUNO, ILC/CLIC, ...
  - Already serving another VO (CALICE)
- FCC @ iLCDirac
  - Re-activated FCC VO
    - Associated CERN FCC resources to FCC VO (HTCondor, EOS area)
  - Added steering applications of interest for FCC workflows
  - Storage organisation based on LC and LHCb experience

# FCC @ iLCDirac : adding resources



- Grid model
  - Sites can decide to add resources to the VO
  - CPU + storage, storage only
- First integration of external site: CNAF (storage only)
  - Can replicate files between CERN-EOS ad CNAF
  - Common catalogue view, Remote access enabled

Enable sharing of public productions through optimisation of computing resources

#### FCC @ iLCDirac : status



- Grid model
  - Sites can decide to add resources to the VO
  - CPU + storage, storage only
- Specific FCC documentation building up in FCC ReadTheDocs
  - 4 Distributed Computing
- DIRAC ReadTheDocs every useful as reference
  - <u>User Guide</u>





#### Practical aspects



- FCC VO activated at CERN and at CNAF
  - <u>Standard</u> VO registration procedure
  - 22 registered users to date
- HTCondor FCC resources connected to FCC VO
  - Dedicated group (fcc-cg) and pool accounts created (fcc001...fcc020)
- Defined EOS endpoint for submitted jobs
  - /eos/experiment/fcc/prod, connected/mapped to fcc001
  - Access strictly controlled by e-group
    - fcc-eos-access: read, no deletion
    - fcc-eos-write-prod: write, deletion
      - Only fcc00x in the egroup
    - fcc-eos-admin-prod: full permission (fccsw service account)
  - Area can only written by submitted tools/jobs

# Today's meeting



- Status of Things
  - Transformations
  - Workflows
  - Comparison with with what have done so far
    - Changes in FCCAnalysis, if needed
  - 0 ...
- Prepare for next steps