# FCC SW

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FCC SW Meeting, 30 October 2020

# What happened since last meeting

- EDM4hep / key4hep ([indico category](#)); minutes attached to meetings
  - EDM4hep ([Oct 13th](#), [Oct 27th](#))
  - Key4hep ([Oct 20th](#))
  - Discussion started about multi-thread support for data model
  - Discussion about granularity of packages in Key4hep and naming convention
  - Progress of (LCIO) converters for use with Marlin wrapper

- Next meetings: Nov 3rd (Key4hep), Nov 10th (EDM4hep)
  - If interested register to egroups **hsf-edm4hep-wg** and/or **key4hep-sw**

# Recent activities

- Software related talks at Physics Performance meeting
  - Follow-up on flavor tagging (L Gouskos, M Selvaggi)
    - Flavour tagging algorithm running on *Delphes Track Covariance* tracks
  - Nice progress on usability of LCFIPlus (C Helsens)
- First implementation of the KKMCee Monte Carlo
  - See dedicated talk by M Chrzaszcz
  - See also related instructions in the doc
- Ongoing work/discussions
  - Enabling (ILC)DIRAC for FCC
  - Discussion about adaptability of the HGCAL clustering algorithm to LAr calorimeter, with possible 3D extension
  - ...

# Status of FCCSW

- Branch edm4hep
  - Migration to EDM4hep / k4FWCore
- Latest Pre-Key4hep tag: v0.15
  - Available in two forms
    - In the LCG stacks

      ```
      $ source /cvmfs/fcc.cern.ch/sw/latest/setup-lcg.sh
      ```

      - for CentOS7 and Ubuntu20.04 on CVMFS
      - Native Mac OS version in preparation
    - As full Spack build, for centos7

      ```
      $ source /cvmfs/fcc.cern.ch/sw/latest/setup.sh
      ```

- Includes last version of several key packages
  - Delphes 3.4.3pre05, DD4hep 01-14-01, Podio 0.12, Geant4 10.06.p02
  - EDM4hep 00-02-01, k4FWCore 00-01-01

# Today's meeting

- Status of the FCCSW migration to EDM4hep (V Volkl)
- Status of topo-clustering migration (B François)
- Status of the EvtGen integration (C Helsens)

- Suggestion for discussion topics are welcome

# Reminder: Vidyo meetings and connections

- Following CERN restrictions from now on - and until further notice - this meeting will be Vidyo only

- The meeting is open to everybody, but people connected **must make themself recognisable**
  - People with a CERN account **must register** to he meeting with their own CERN credentials
  - For people without a CERN primary account, GUEST connection will allowed **only** if agreed previously via email to Gerardo.Ganis@cern.ch or Clement.Helsens@cern.ch