Software for PED studies
Introduction

FCC Software Meeting
CERN, Zoom

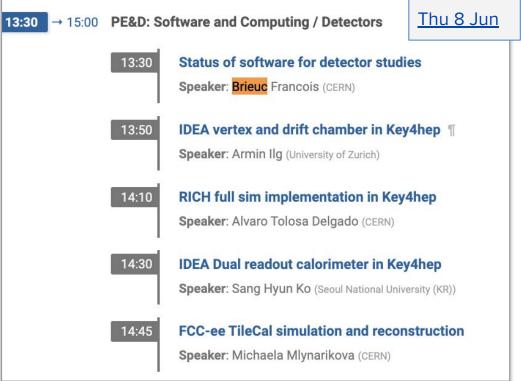Jun 26, 2023
G Ganis, CERN-EP

Recent activities

- ## FCC Week 2023, London
  - Joint Detector Concepts and Software session, contribution to Phys Perf session
    - Good overall reception: recognized significant progress towards the implementation of the three detector concepts under study; Interesting discussions after all talks
    - A general software status talk was missing
- ## Start of by-weekly meeting to organize work around full simulation and reconstruction
  - Scope: detector implementation, simulation, digitization, reconstruction and performance
    - Working meeting: issues faced, lesson learned, status report, questions, unpolished plots, …
  - Category: https://indico.cern.ch/category/16938/ (E-group: FCC-PED-SoftwareAndComputing-Full-Simulation)
- ## ECFA workshops
  - Generators, 21-22 June, Brussels
    - interesting discussions on how to address future precision challenges
  - Reminder: Reconstruction, 11-12 July, CERN
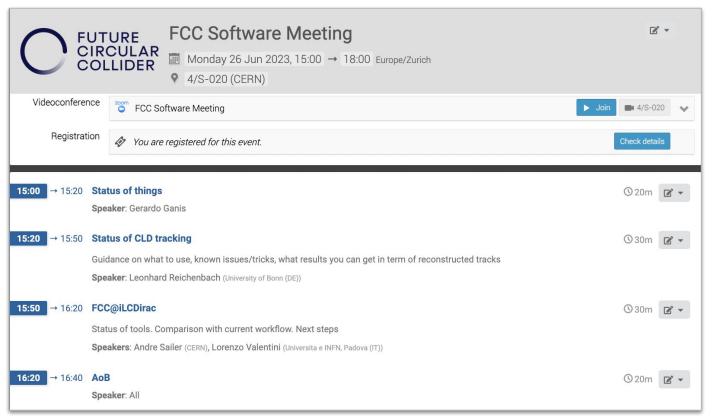
Software Talks at FCC Week 2023 in London

10:30 → 12:00 **PE&D: Physics Case + Theoretical calculations (II)**

11:30 **Latest developments in FCC Analysis** ¶
Speaker: Juraj Smiesko (CERN)

13:30 → 15:00 **PE&D: Software and Computing / Detectors**

13:30 **Status of software for detector studies**
Speaker: Brieuc Francois (CERN)

13:50 **IDEA vertex and drift chamber in Key4hep** ¶
Speaker: Armin Ilg (University of Zurich)

14:10 **RICH full sim implementation in Key4hep**
Speaker: Alvaro Tolosa Delgado (CERN)

14:30 **IDEA Dual readout calorimeter in Key4hep**
Speaker: Sang Hyun Ko (Seoul National University (KR))

14:45 **FCC-ee TileCal simulation and reconstruction**
Speaker: Michaela Mlynarikova (CERN)

Today's meeting

Next meeting

- July 31st
  - Developing agenda: https://indico.cern.ch/event/1300411/
- Proposals for contributions welcome