

FCC-ee Detector Full Simulation Implementation

Wednesday, 11 October 2023 16:00 (20 minutes)

To study the physics potential of the detector concepts proposed for FCC-ee, a detailed simulation of detectors responses to visible particles is required. An essential component of the simulation process is the description of the detector components in terms of geometry, materials and sensitive parts. The future collider community agreed on using the DD4hep framework for their detector description. This framework has the potential to provide a flexible plug and play approach which allows us to easily study various full detector configurations made of different combinations of sub-detectors. In addition to that, the community agreed on implementing reconstruction algorithms in the Key4hep framework which greatly enhance their interoperability across sub-detectors from different facilities. This talk will report on the recent progress made in implementing FCC-ee detector concepts together with their reconstruction in the Key4hep framework.

Primary author: TOLOSA DELGADO, Alvaro (CERN)

Presenter: TOLOSA DELGADO, Alvaro (CERN)

Session Classification: Parallel - WG3