



Contribution ID: 415

Type: **Talk**

333 Developing a new collaborative software framework for FCC-ee simulations

Wednesday, September 1, 2021 5:30 PM (15 minutes)

The FCC-ee is one of the main candidates to succeed the High Luminosity LHC at the forefront of particle colliders. The unprecedented energy and luminosity goals in the FCC-ee require extensive simulation campaigns to validate the design. While many different codes exist that address key aspects of the FCC-ee project, it is often complicated if not impossible to combine these and merge functionalities to perform some of the simulations required for the FCC-ee.

A new collaborative project between EPFL and CERN aims to develop a modern and maintainable software simulation framework to address the key challenges of the FCC-ee. This talk presents an overview of the scope of the project as well as the first developments and results. Furthermore, future functionalities that may be addressed within this framework are presented.

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Session Classification: Nuclear, Particle- & Astrophysics

Track Classification: Nuclear, Particle- and Astrophysics (FAKT - TASK)