## Simulations of the calorimetry system for the ALLEGRO FCC-ee detector concept

Friday, 19 July 2024 20:40 (20 minutes)

The ALLEGRO detector concept is a proposal for the detector to be operating at the Future Circular Collider FCC-ee. The calorimetry system consists of a high granular noble liquid electromagnetic calorimeter and a hadronic calorimeter with scintillating tiles using wavelength shifting fibers. The individual components of the calorimetry system in the barrel and extended barrel regions will be introduced. The simulation chain from Geant4 deposits to the clusters in the calorimeter will be described. Calibration of the Geant4 energy deposits to the electromagnetic scale and corrections for the losses in the cryostat will be shown. Results of the reconstruction of electrons or pions will be presented.

## Alternate track

## I read the instructions above

Yes

Primary author: SOPKOVA, Filomena (Slovak Academy of Sciences (SK))Presenter: SOPKOVA, Filomena (Slovak Academy of Sciences (SK))Session Classification: Poster Session 2

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