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IDEA Dual-Readout Calorimeter Simulation - Status and Plans

The IDEA Experiment envisaged at future e^+e^- circular colliders (FCCee and CEPC) is currently under design and optimization with dedicated full-simulation investigations. In this talk, we review the main challenges and goals of designing the IDEA fully-projective fiber-based dual-readout calorimeter using the GEANT4 toolkit. Particular attention will be given to geometry design, very-high time-consuming processes, and readout-electronics simulation. Finally, the possibility to store an unprecedented amount of calorimetric information within a new event data model using the EDM4HEP toolkit will be discussed.

Collaboration / Activity

IDEA proto collaboration

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