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Double readout sandwich calorimeter

Thursday, 18 May 2023 16:30 (20 minutes)

We propose a sandwich calorimeter which aims at both ECAL and HCAL for the future collider experiments. It consists of Lead glass layers and Glass scintillator layers of sandwich structure where both layers are active for Cherenkov and scintillation lights respectively. The materials are chosen to be the calorimeter as inexpensive as possible. The expected energy resolution for high energy hadrons and electrons / photons are close to that of homogeneous calorimeters with fine segmentation capability. Here the simulation work for the calorimeter will be presented and discussed our development of the elements.

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