



Contribution ID: 119

Type: **not specified**

Status of the technological prototype of the CALICE highly granular silicon tungsten calorimeter”

Tuesday 16 March 2021 09:00 (20 minutes)

A highly granular silicon-tungsten electromagnetic calorimeter (SiW-ECAL) is the reference design of the ECAL for International Large Detector (ILD) concept, one of the two detector concepts for the detector(s) at the future International Linear Collider. Prototypes for this type of detector are developed within the CALICE Collaboration. The technological prototype addresses technical challenges such as integrated front-end electronics or compact layer and readout design.

During Autumn/Winter 2019/20 a stack of up to 22 layers with a dimension of $\sim 18 \times 18 \times 25 \text{ cm}^3$ was compiled. A beam test at DESY is planned for May 2021. We will present the status of the hardware aspects of the prototype and the status of the implementation in simulation.

Time Zone

Europe/Africa/Middle East

Primary author: POESCHL, Roman (Université Paris-Saclay (FR))

Presenter: IRLES, Adrian (IFIC CSIC/UV)

Session Classification: PD6: Calorimeters

Track Classification: Physics and Detectors Tracks: PD6: Calorimeters