5. Annual MT Meeting



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A Highly Granular SiPM-on-tile Hadron Calorimeter Prototype

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The Analogue Hadron Calorimeter (AHCAL) developed by the CALICE collaboration is a sampling highly granular calorimeter foreseen for a future Linear Collider experiment.

It consists of steel absorber plates as absorber material and plastic scintillator tiles readout by silicon photomultipliers (SiPMs) as active material. The front end electronics is integrated into the active layers.

In 2017 and 2018 a large prototype, scalable to a full linear collider detector, has been built. It is made of 38 layers, each containing 576 channels, arranged on readout boards and grouped according to the 36 channel readout chips.

The prototype has been commissioned at DESY and tested in muons, electrons and pions beam at CERN SPS. In this poster, the prototype design and the test beam activity will be presented.

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