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CALICE Scintillator tungsten ECAL

Summary

The CALICE Collaboration

We have constructed a prototype ECAL which consists of tungsten plates and small scintillators. There are 26 layers of active scintillators which consist of 18 strips in a layer.

The size of each scintillator is 4.5 cm x 1cm x 0.3cm.

The scintillation light is read out via MPPCs which are newly developed.

We describe the construction and performance of this calorimeter.

In particular, the results of the beam test of the calorimeter are discussed in detail. A planned further extension of this detector four times bigger will also be covered.

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