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Tests of a Digital Hadron Calorimeter

Summary

The CALICE Collaboration

We present the concept of a Digital Hadron Calorimeter (DHCAL) for use in a detector optimized for the application of Particle Flow Algorithms to the measurement of jet energies. Resistive Plate Chambers (RPCs) with $1 \times 1 \text{ cm}^2$ readout pads are used as active elements. The front-end electronic readout is integrated on the pad-boards of the chambers. We report on detailed measurements with a small scale prototype in the Fermilab test beam using muons, electrons, pions, and protons and in the laboratory using cosmic rays.

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