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Response of the CALICE Si-W ECAL prototype to electrons

Summary

The CALICE Collaboration

The CALICE Collaboration has been testing a prototype silicon-tungsten calorimeter in beams at DESY and CERN in 2006-7. We report on the commissioning of the detector, including studies of calibration, noise, gain, uniformity and stability. We characterise the response of the calorimeter to electrons in the energy range from 1-45 GeV. Key quantities studied include the energy resolution, the linearity and uniformity of the response and the longitudinal and transverse shower profiles. We use these measurements to validate the GEANT4 Monte Carlo simulation tools which are being used to design the future full scale detectors.

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