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Shower characteristics of particles with momenta from up to 100 GeV in the CALICE Scintillator-Tungsten HCAL

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ABSTRACT: We present a study of the showers initiated by high momentum (up to 100 GeV) positrons, pions and protons in the highly granular CALICE analogue scintillator-tungsten hadronic calorimeter. The data were taken at the CERN PS and SPS. The analysis includes measurements of the calorimeter response to each particle type and studies of the longitudinal and radial shower development. The results are compared to several GEANT4 simulation models.

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