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

Eva Sicking for the CALICE collaboration*

* CERN, 1211 Geneva 23, Switzerland

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.

* corresponding author e-mail: eva.sicking@cern.ch