

Study of the nonuniformity of scintillator tiles for highly granular calorimeters

The current trend in calorimetry is the development of highly granular calorimeters. Such a calorimeter assembled from $3 \times 3 \times 0.3 \text{ cm}^3$ scintillator tiles is now under construction and test by the CALICE collaboration. Each tile is read out by silicon photomultiplier and wrapped in reflecting foil. We present here the study of the uniformity of response of individual tile to minimum ionising particles as well as the comparison of these experimental measurements to Geant4 simulations for different configurations of tile-SiPM couplings.

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