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Evolution and Performance of Highly Granular Calorimeters

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Highly granular “imaging” calorimeters, developed by the CALICE collaboration, have evolved from a conceptual idea to a well-proven technology over the last decade. Initially proposed for the detector concepts of future linear electron-positron colliders, such devices are now finding an increasing number of applications in other areas of particle physics as well. This presentation will review key aspects of the technology for highly granular electromagnetic and hadronic calorimeters, sketch the evolution from the first physics prototypes demonstrating the concepts to technological prototypes addressing the constraints of realistic experiments and issues of scalability and mass production and discuss performance highlights of the CALICE detectors.

Secondary topics

Applications

Design concepts for future calorimeter at the energy frontier

Primary topic

Particle Flow

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