



ID contributo: 50

Tipo: oral presentation

GEANT4 Physics Evaluation with Testbeam Data of the ATLAS Hadronic End-Cap Calorimeter

giovedì 29 maggio 2008 14:40 (20 minuti)

Summary

The validation of GEANT4 physics models is done by comparing experimental data from beam tests of modules of the ATLAS hadronic end-cap calorimeter with GEANT 4 based simulations. Various physics lists for the simulation of hadronic showers are evaluated. We present results of studies of the calorimeter performance parameters, such as energy resolution and shower shapes, as well as results of investigations of the influence of Birks' law and of cuts on the time of development of hadronic showers.

Autore principale: Dr. MA, Hong (Brookhaven National Lab)

Relatore: KIRYUNIN, Andrey (MPI for Physics, Munich)

Classifica Sessioni: Simulation

Classificazione della track: Simulation