

Title: Detector Modelling with FLUKA
Giuseppe BATTISTONI

Abstract:

A short summary of the features offered by the present FLUKA code is presented. The application of FLUKA to the simulation of detectors is illustrated by reviewing some examples. These include tracking detectors, the Liquid Argon Time Projection Chamber and calorimeters.

The simulation of ALICE detector for LHC represent another fundamental application. Among the new developments, the sampling of primary ionization has to be mentioned. Additional software tools have also been developed, and new ones are in preparation, in order to allow users to manage complex geometries with FLUKA.