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G2CD, General Gaseous Calorimeter Digitizer

Wednesday 3 July 2013 16:45 (1h 10m)

Digital sampling calorimeter with gaseous sensor layer can be used as Particle Flow Orientated calorimeter, since its homogeneous, robust and cost-efficient. The response of digital gaseous calorimeter can be characterized with efficiency and multiplicity. To validate the simulation tool and to enable further simulation-based analysis as well as data-MC comparison, we developed a general digitization method to reproduce efficiency and multiplicity using the spatial information simulated at higher granularity. This method can be applied to various types of gaseous detectors including GRPC and MicroMegas. Testing on test beam data, the experimental observables such as efficiency, multiplicity and number of hits at different thresholds have been reproduced to a high precision.

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