

The Progress on SDHCAL Digitisation

R.Han 2010.07.02





Cosmic Ray Charge Spectrum

Motivation: Work out Charge Spectrum in Simulation **Way:** Charge Spectrum is Polya Distribution(F.Suli, Gas Detectors, 2009), extract parameters in Polya function **from Data**





CALCO Calorimeter Simulation Charge and Comparison

Mokka Input: 10 GeV muons-, ILD-00fw_Dhcal

Marlin: use our DHCAL energy to charge conversion processor.

Collected: Hcal Barrel Collection/SimCalorimeterHit

The full study has been processed by prototype simulation before applying to Mokka/Marlin



Calorimeter for the Definition of Pad Multiplicity

in Prototype Simulation



Dngoing Study: 1: add charge division between pad in simulation.

2: No hits position, Only pads position, add hits position in Mokka for Pad-Multi?