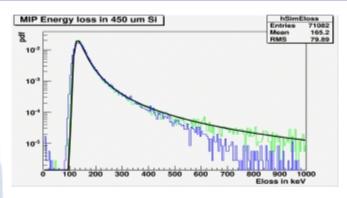
Summary of Digitizer Validation

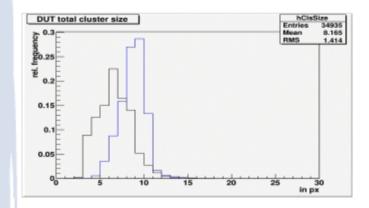
Digitizer validation – taken over by B. Schwenker

- Main aim validate simulation chain (Mokka + Marlin (PXD digitization)) on real data, i.e. compare TB data 2008/2009 with simulation
- Studies performed:
 - Energy loss fluctuations (Geant4 x Landau distr. used in digitizer → need to be changed)
 - Cluster charge study (Saturation limits charge collection → need to be implemented)
 - Cluster size study (Simulation seems to overestimate the cluster size → under investigation)

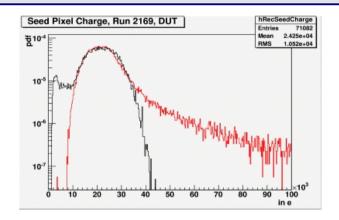
Examples of Individual Studies



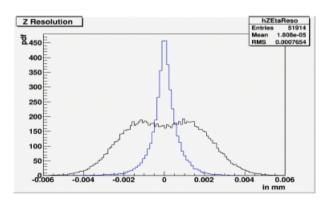
Energy dep.: green: Landau in Digitizer, blue Geant4



Cluster size: black: TB data, blue: simulation



<u>Seed charge</u>: black: saturated data, red: simulation



Z Resolution (simulation): black: COG, blue: etha corr.