

Raw Hits in Si-CEPC Simulation

Chengdong FU

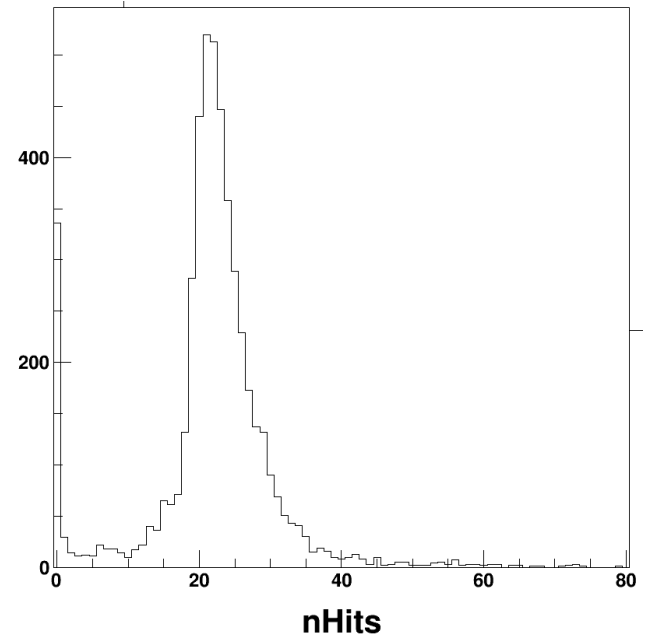
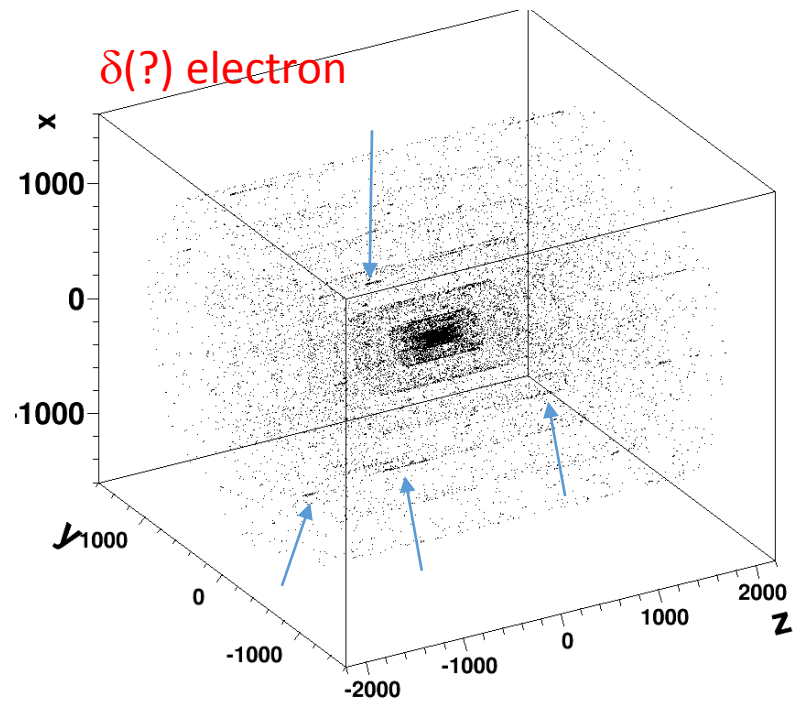
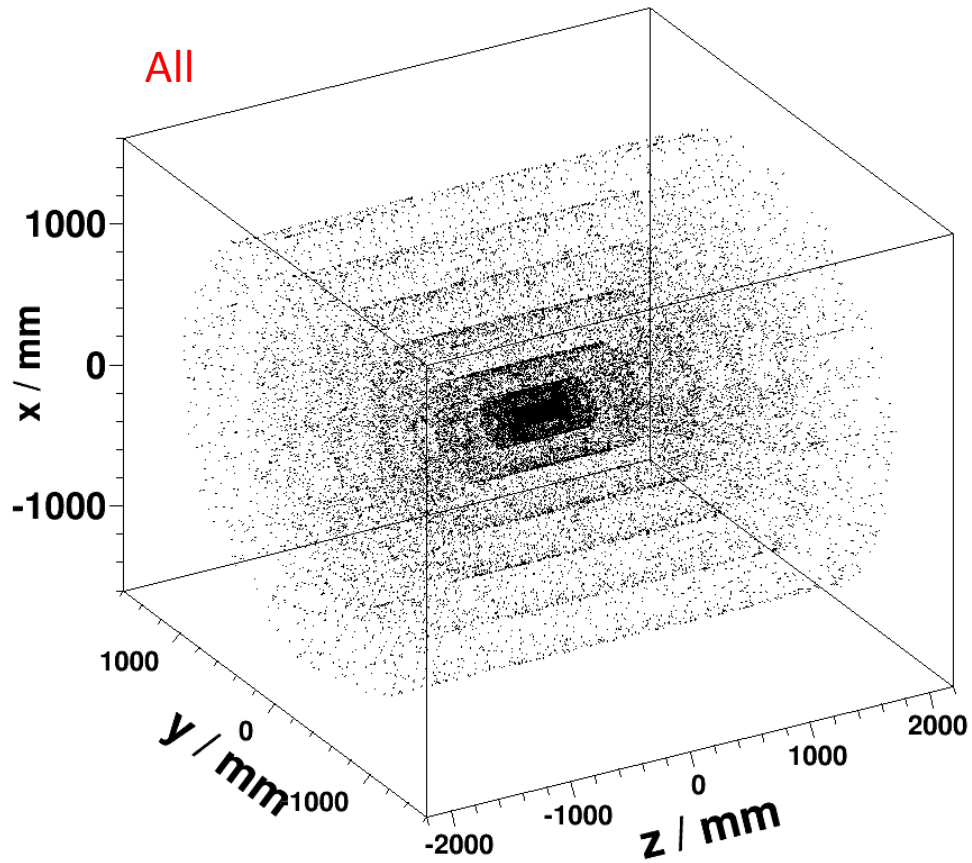
IHEP

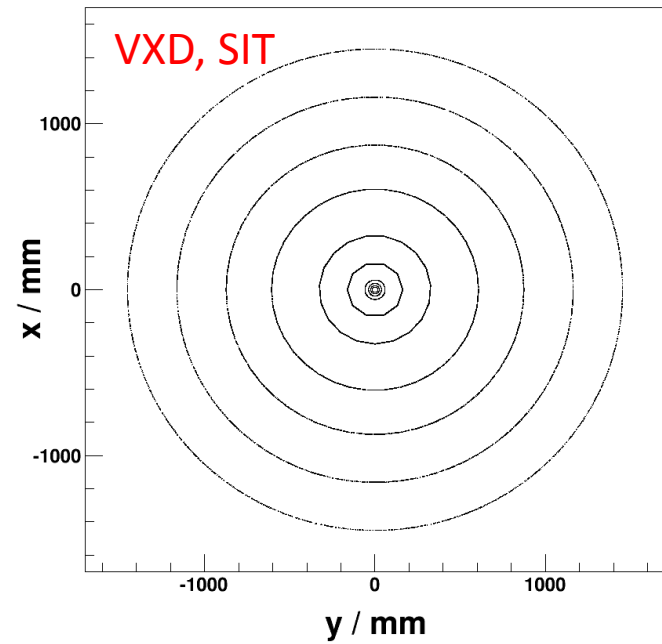
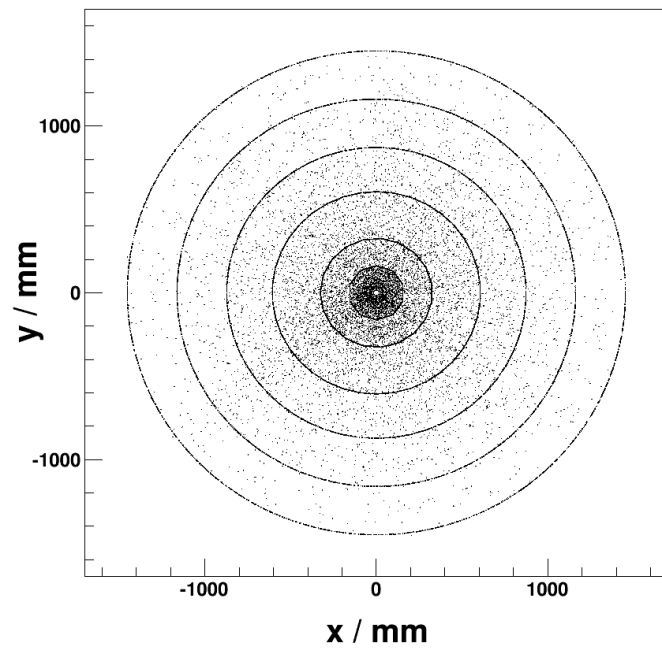
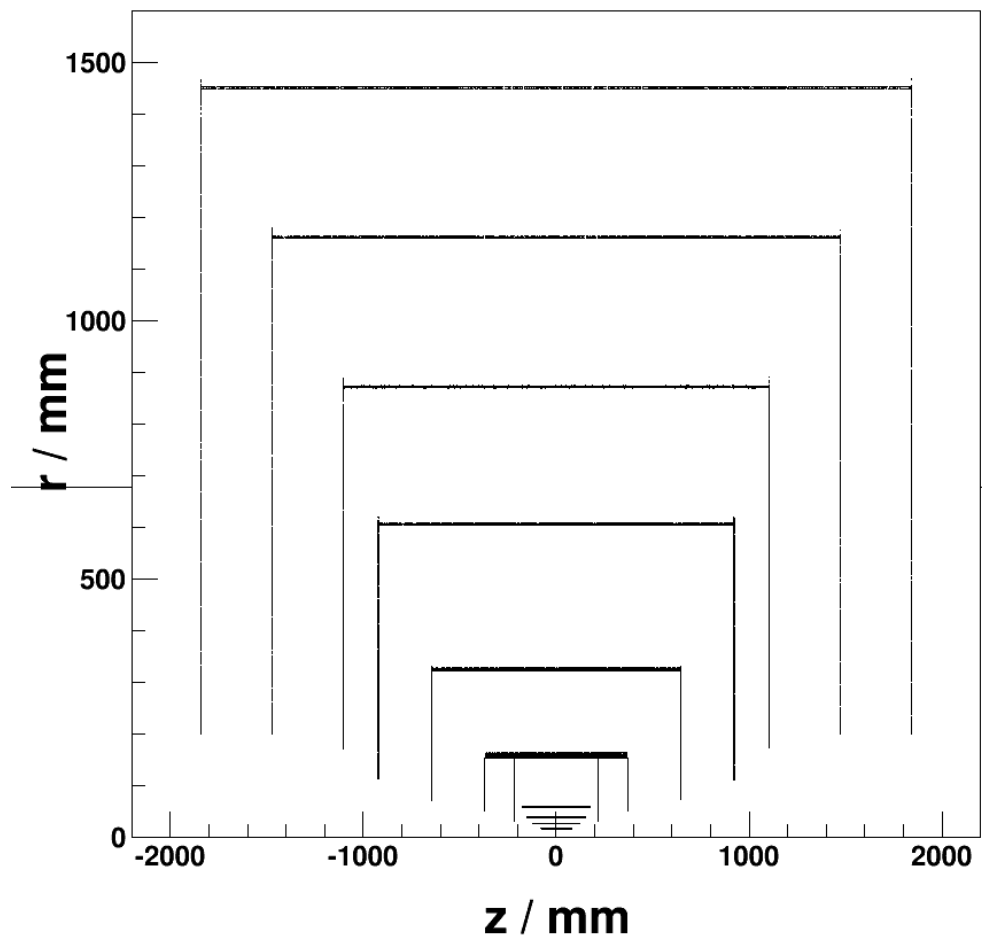
2016/7/28

Software and Geometry (Weimin's slides)

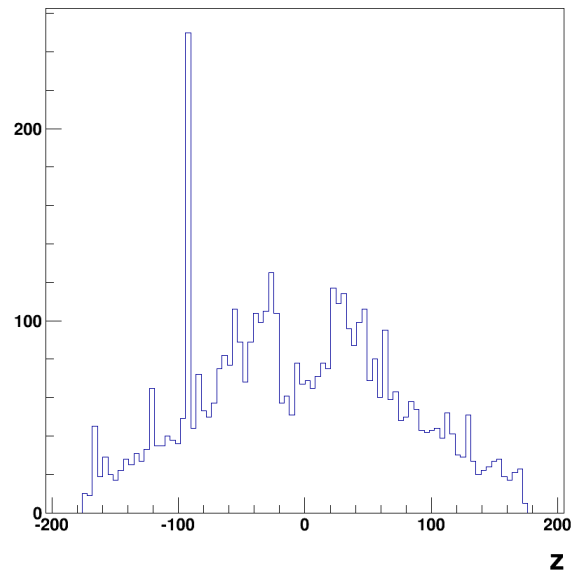
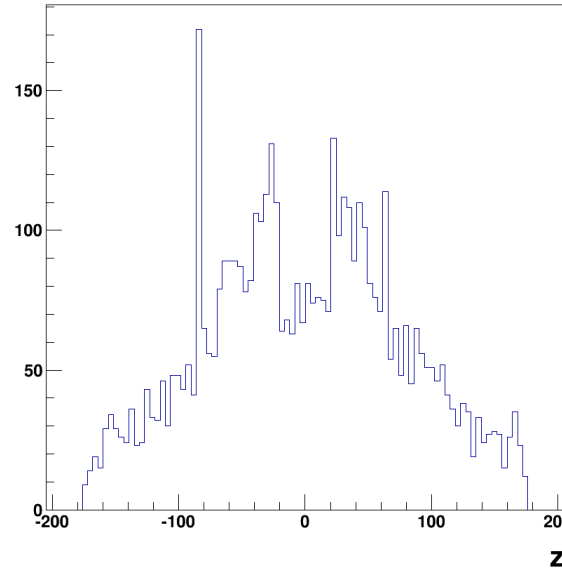
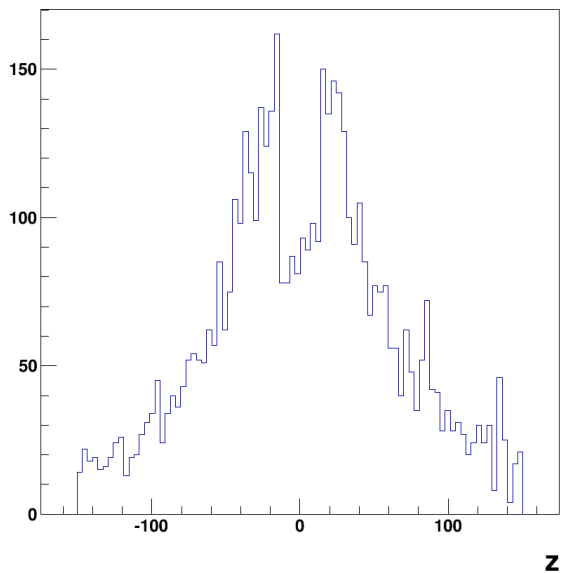
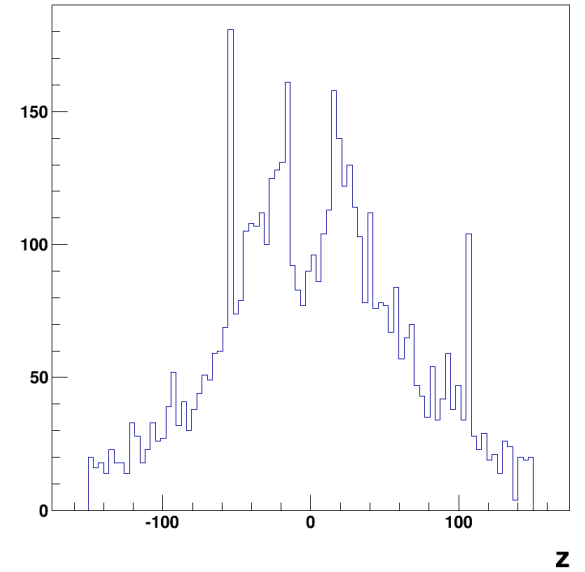
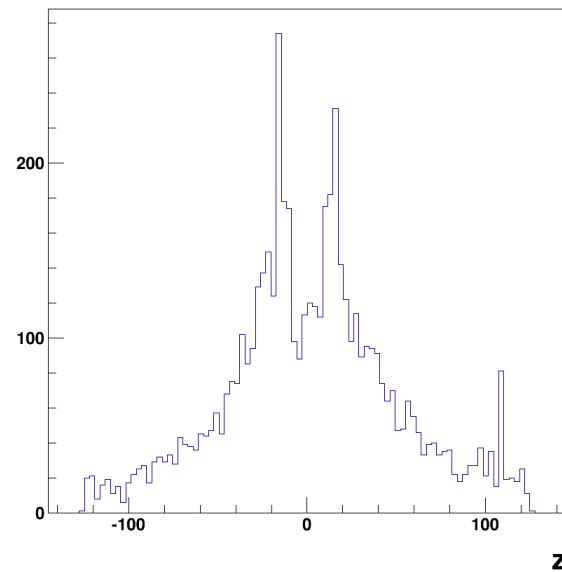
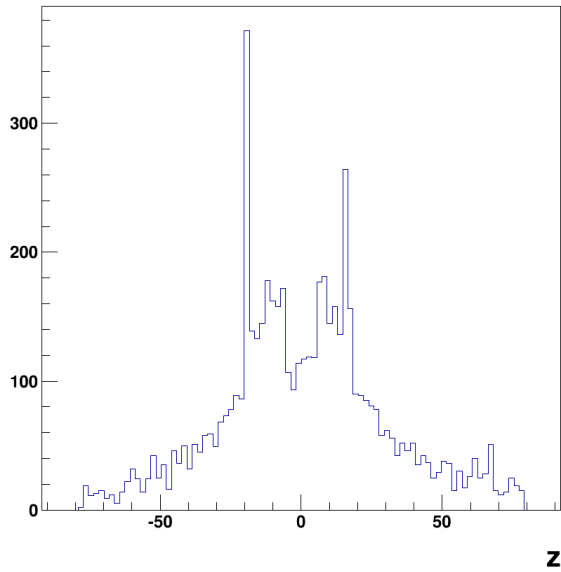
- Generator
 - particleGun
- cepc_v1 + SiTracker01
 - cepc_v1: remove VXD, SIT, TPC, SET, FTD
 - SiTracker01
 - VXD: 6 layers
 - SIT: 6 double layers
 - FTD: 7 layers (2 pixels and 5 double strip)
- cepc_new4.macro

Hits position

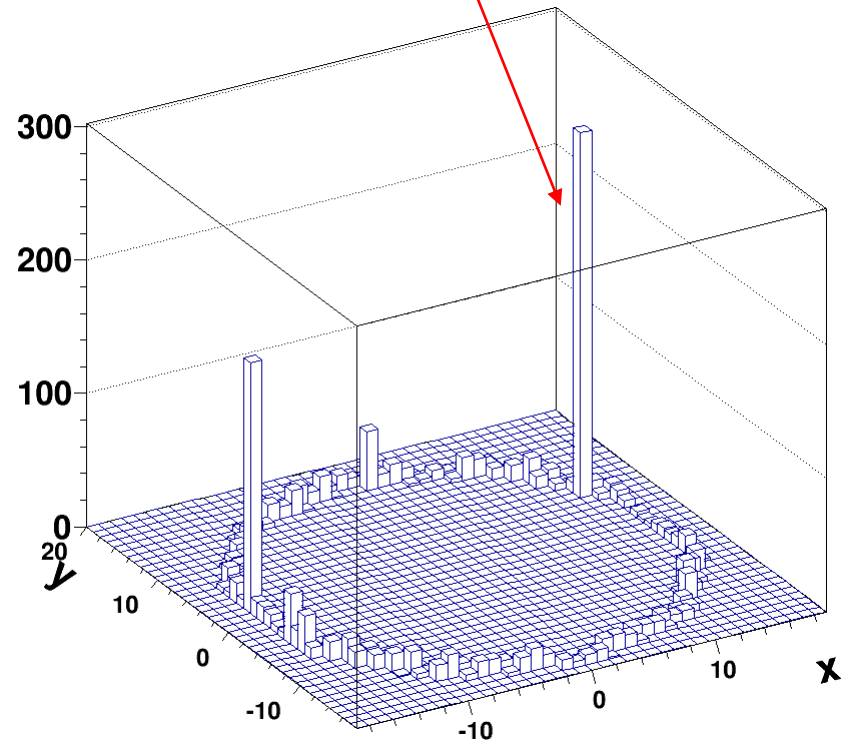
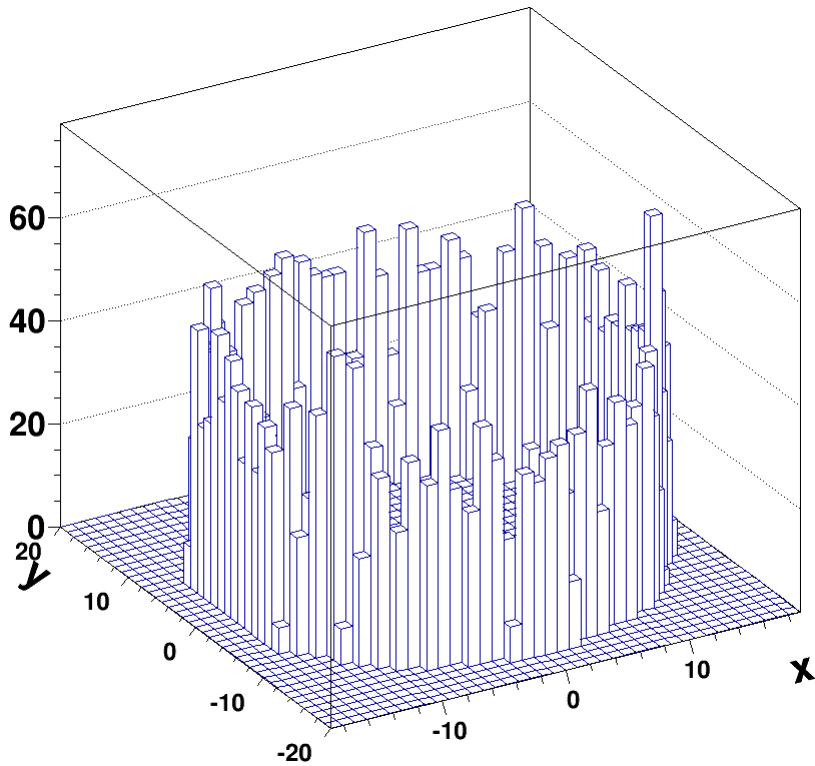
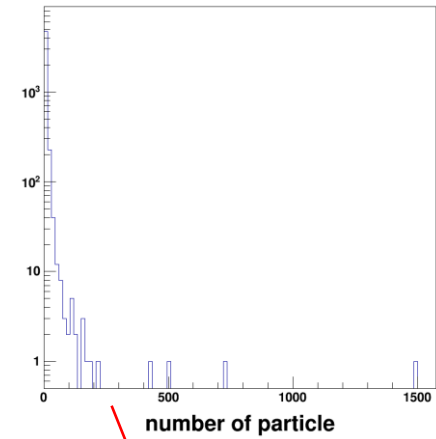




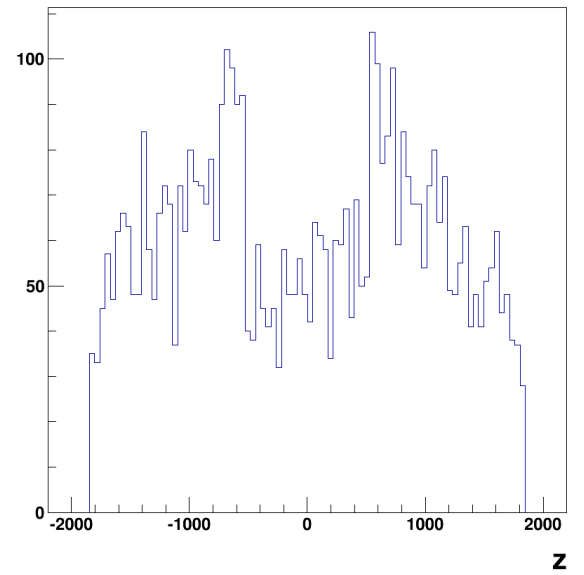
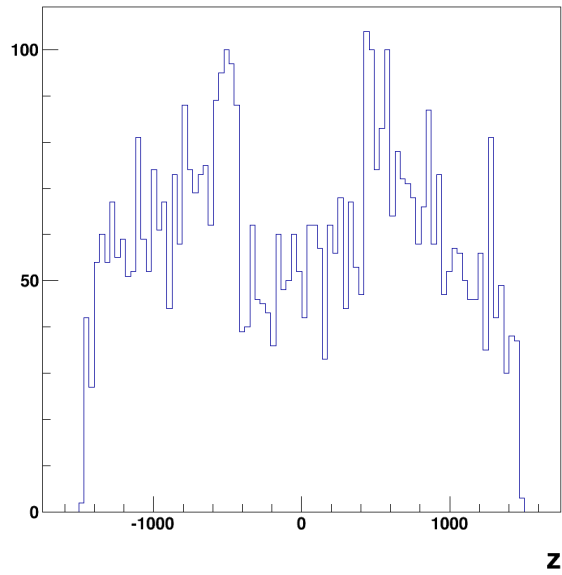
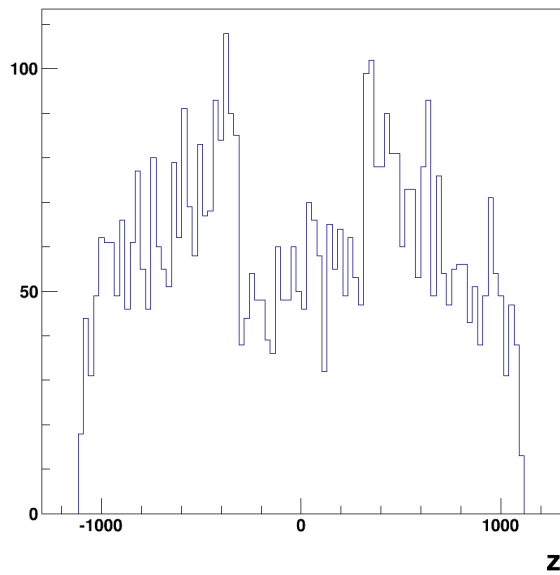
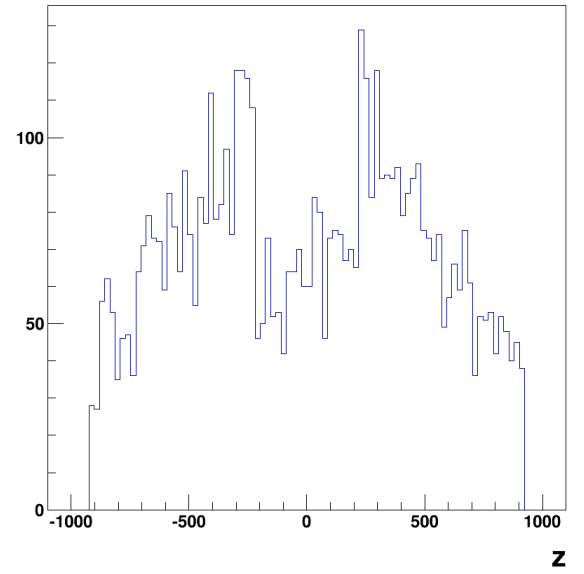
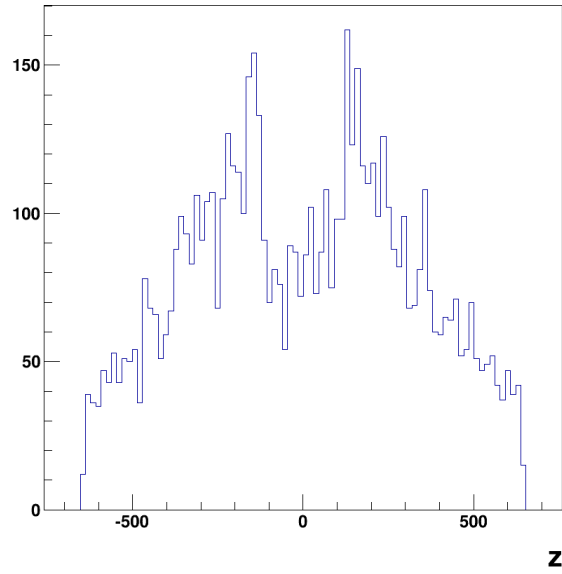
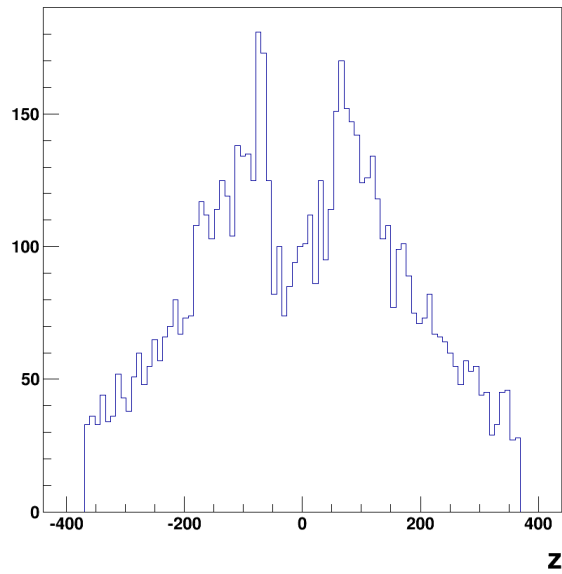
Z in VXD



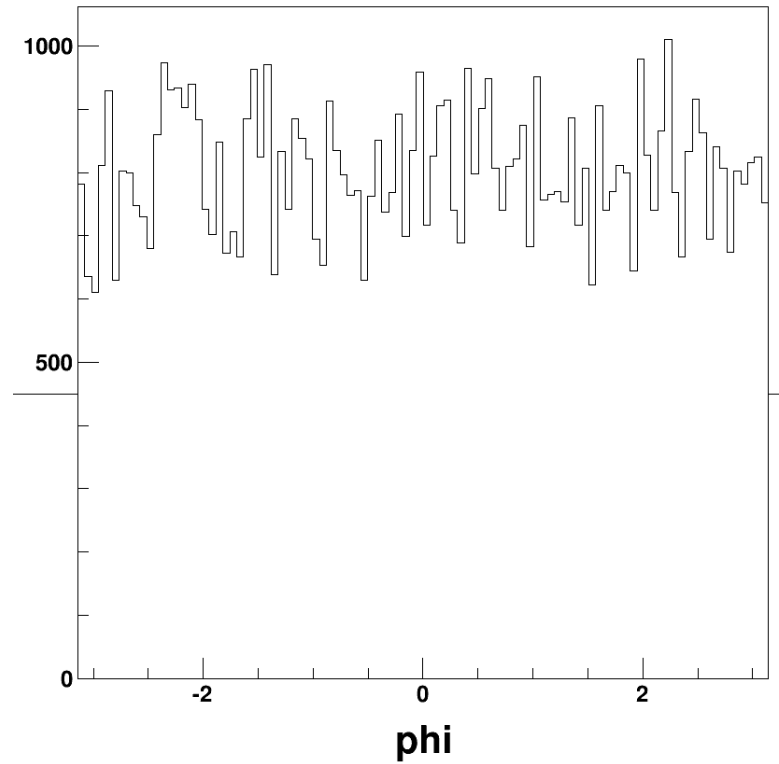
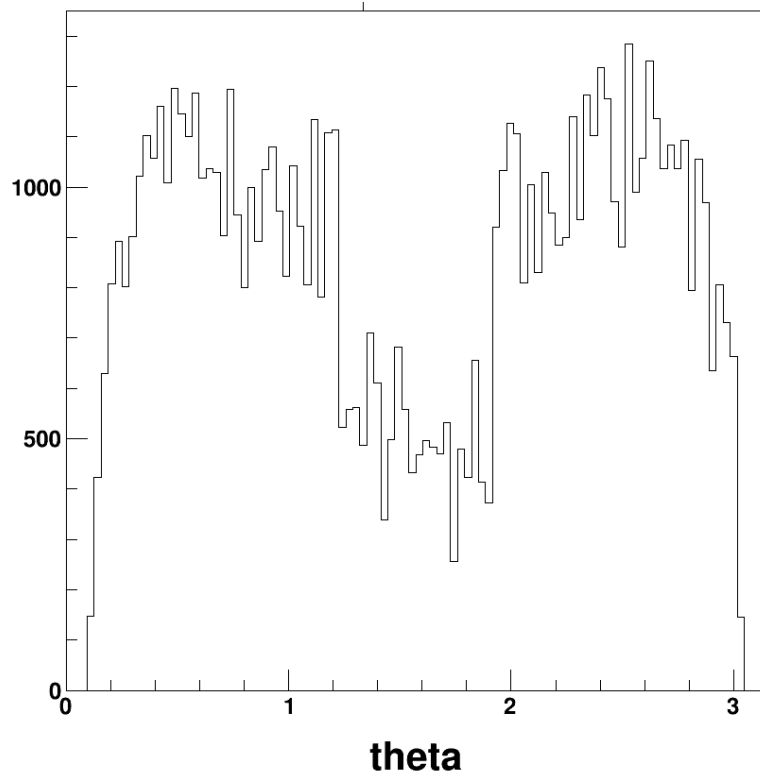
Hits in 0-layer of VXD



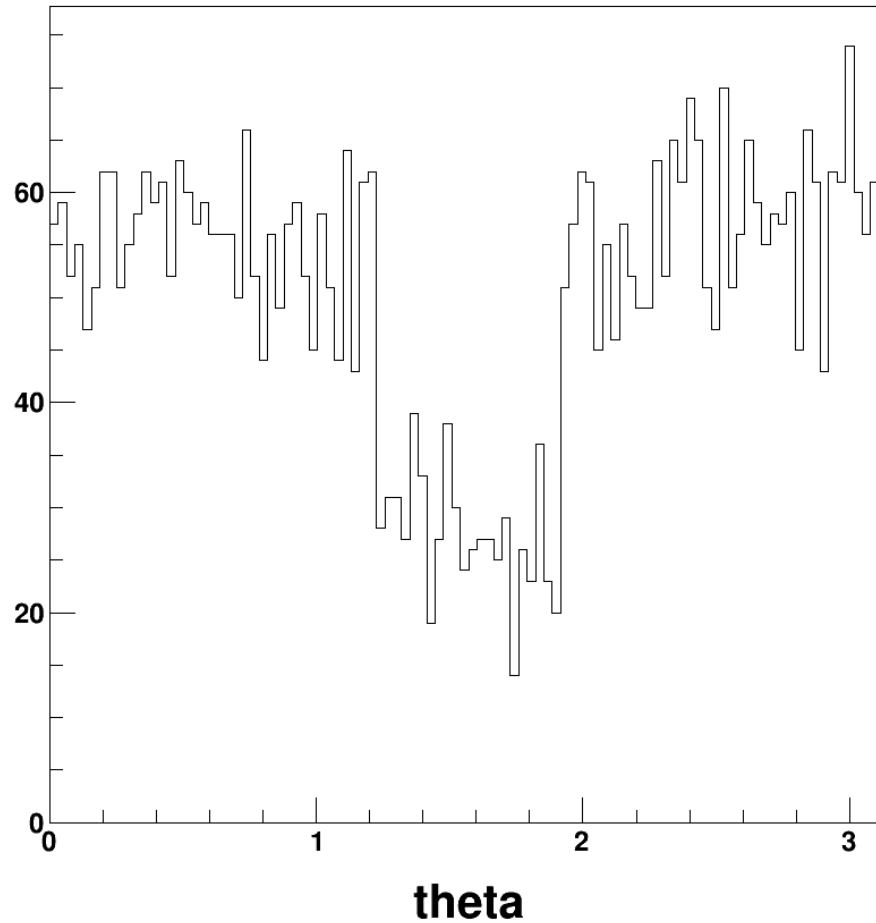
Z in SIT for muon



Hits distribution for muon

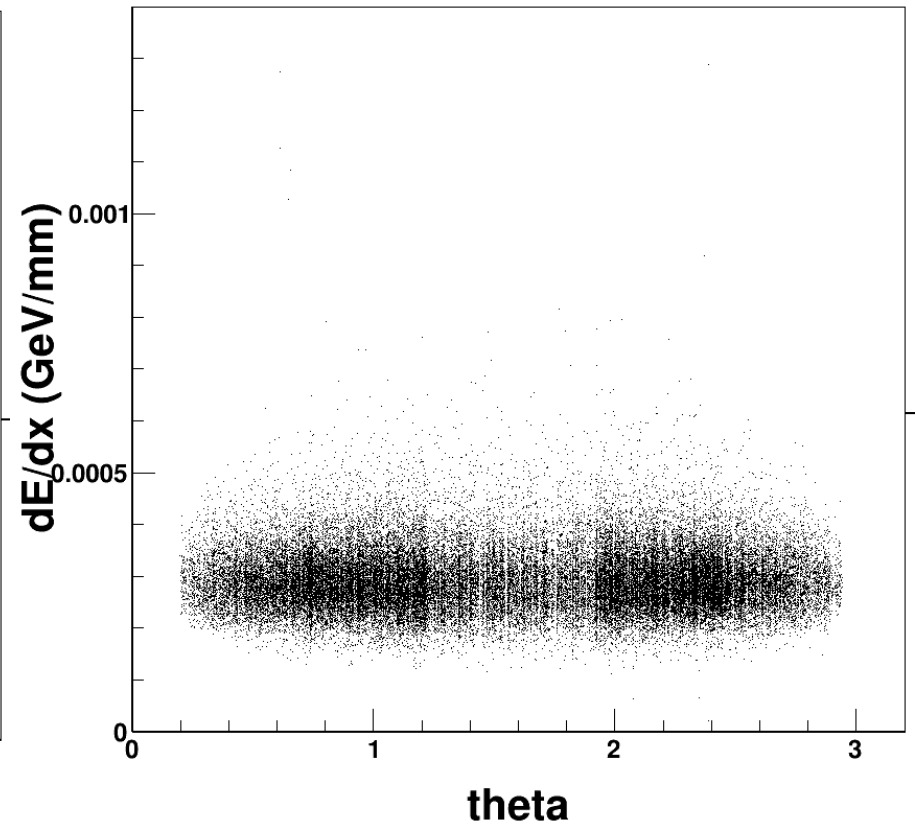
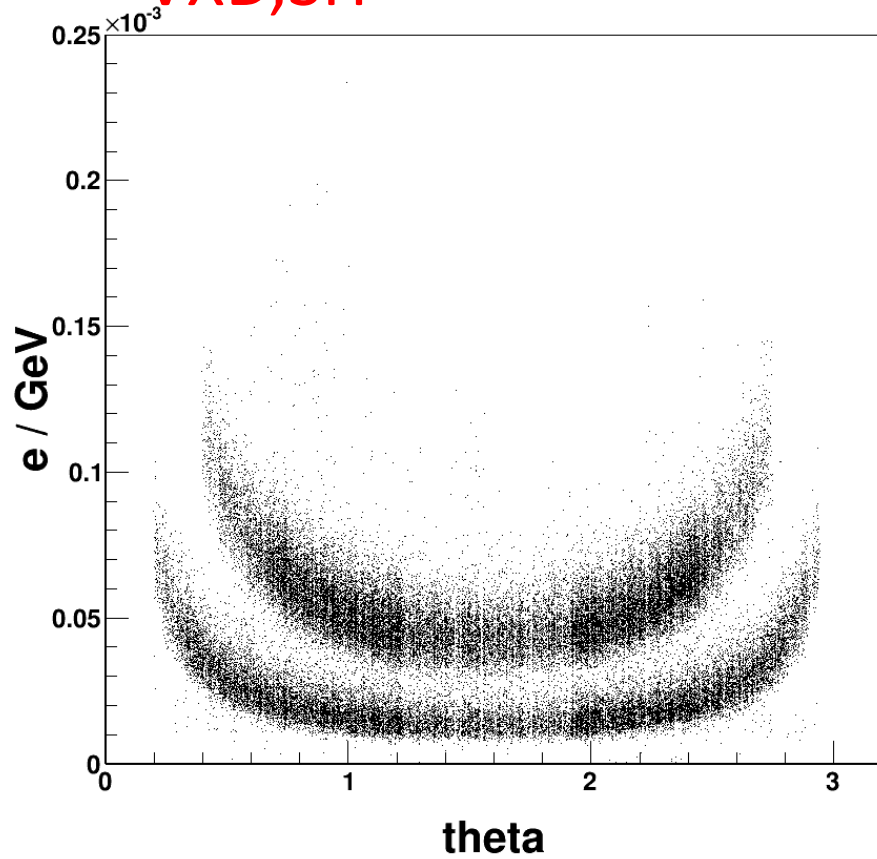


Theta distribution of muon

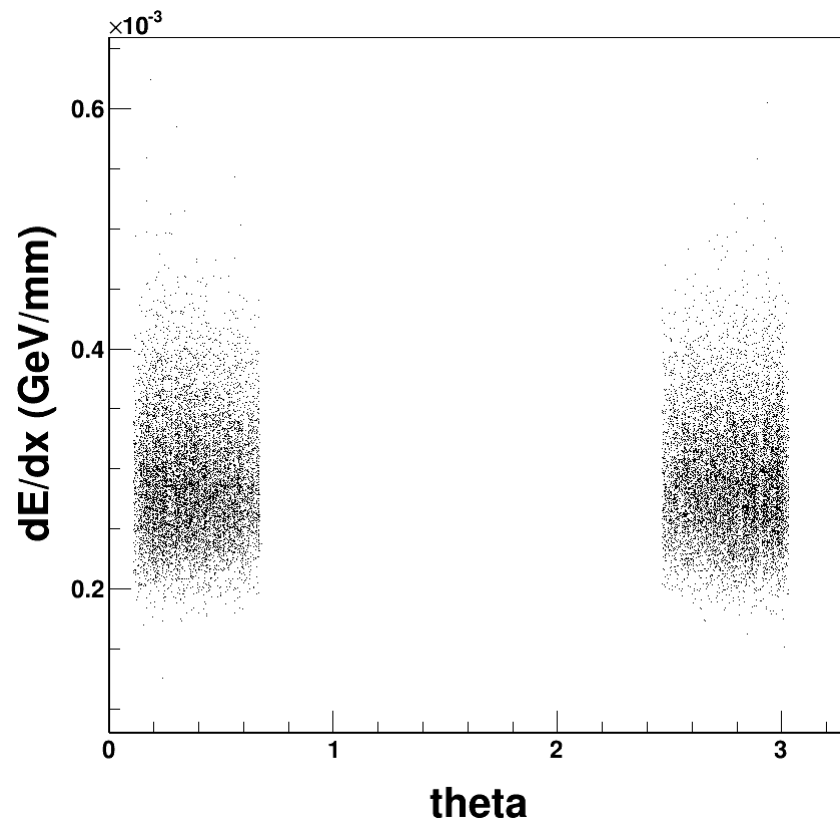
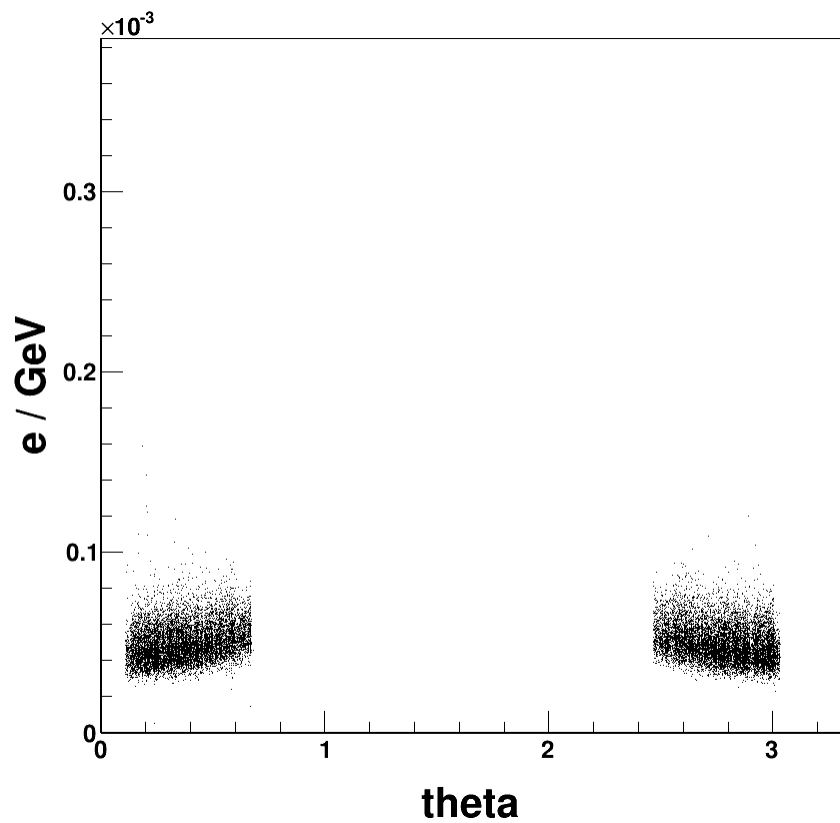


Deposited energy and dE/dx for muon

VXD, SIT



FTD



Deposited energy and dE/dx for electron

