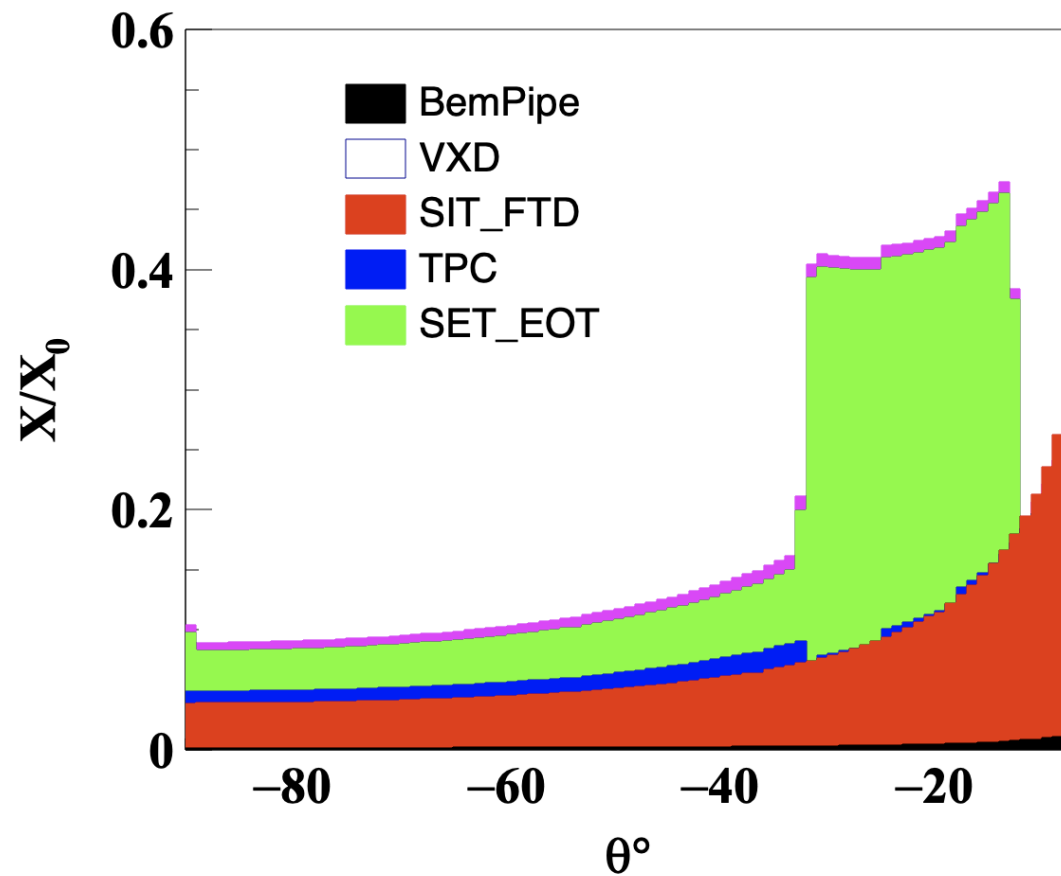
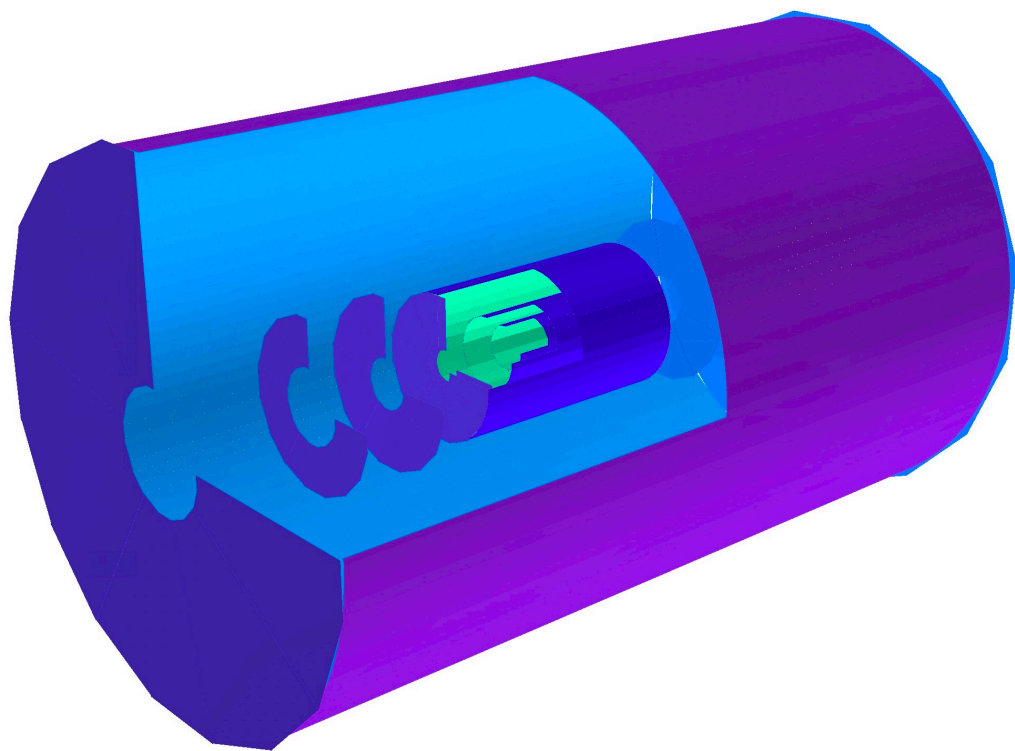


Full simulation tools for optimization

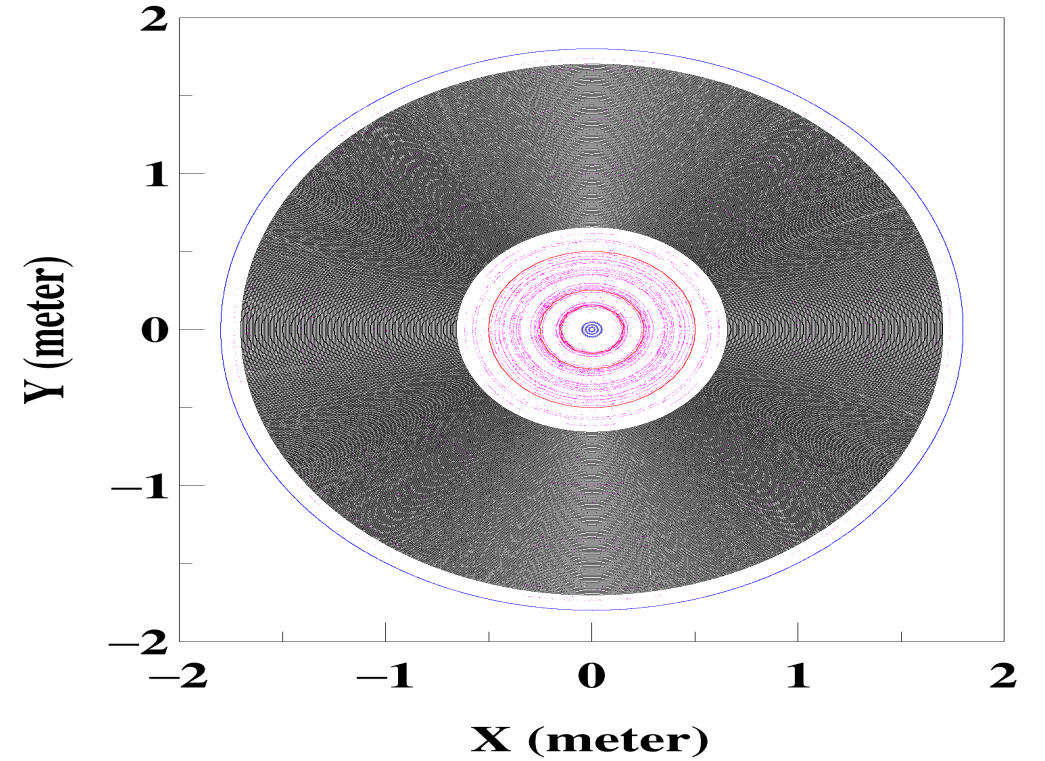
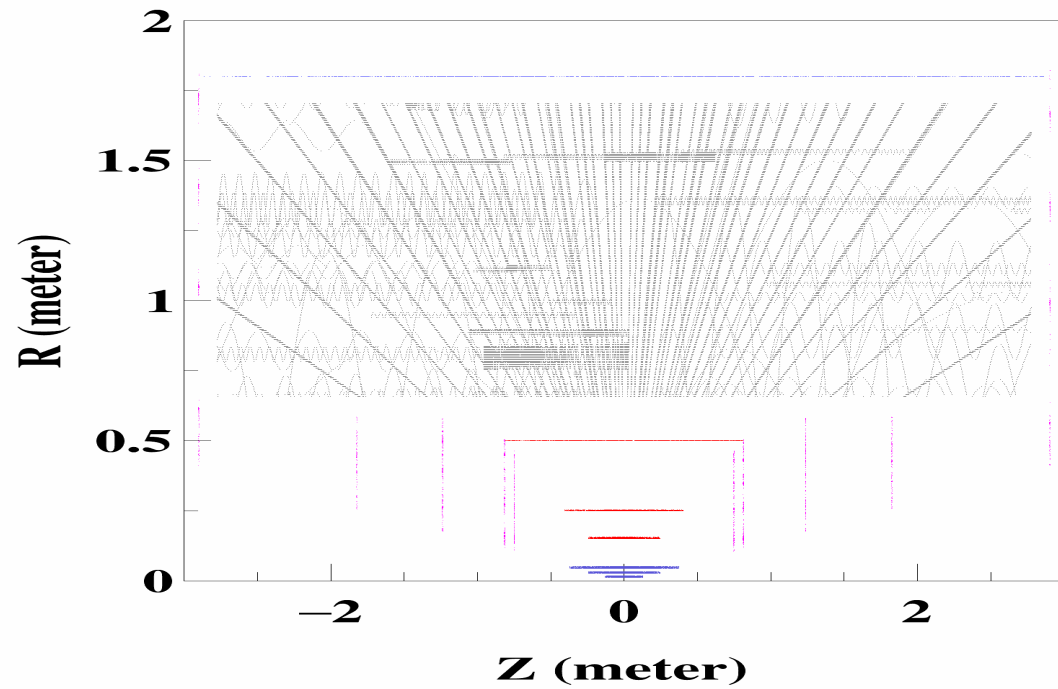
Gang Li

2024.06.28

Full simulation tools ready: TDT_o1_v01

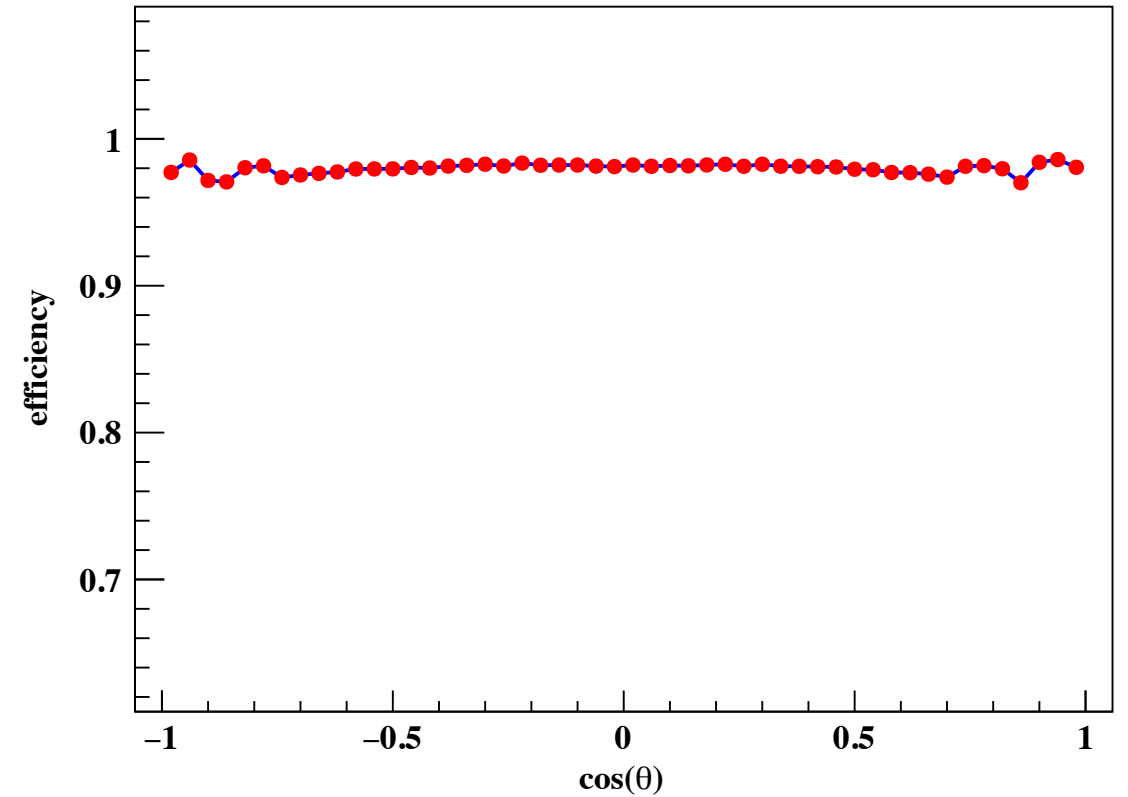
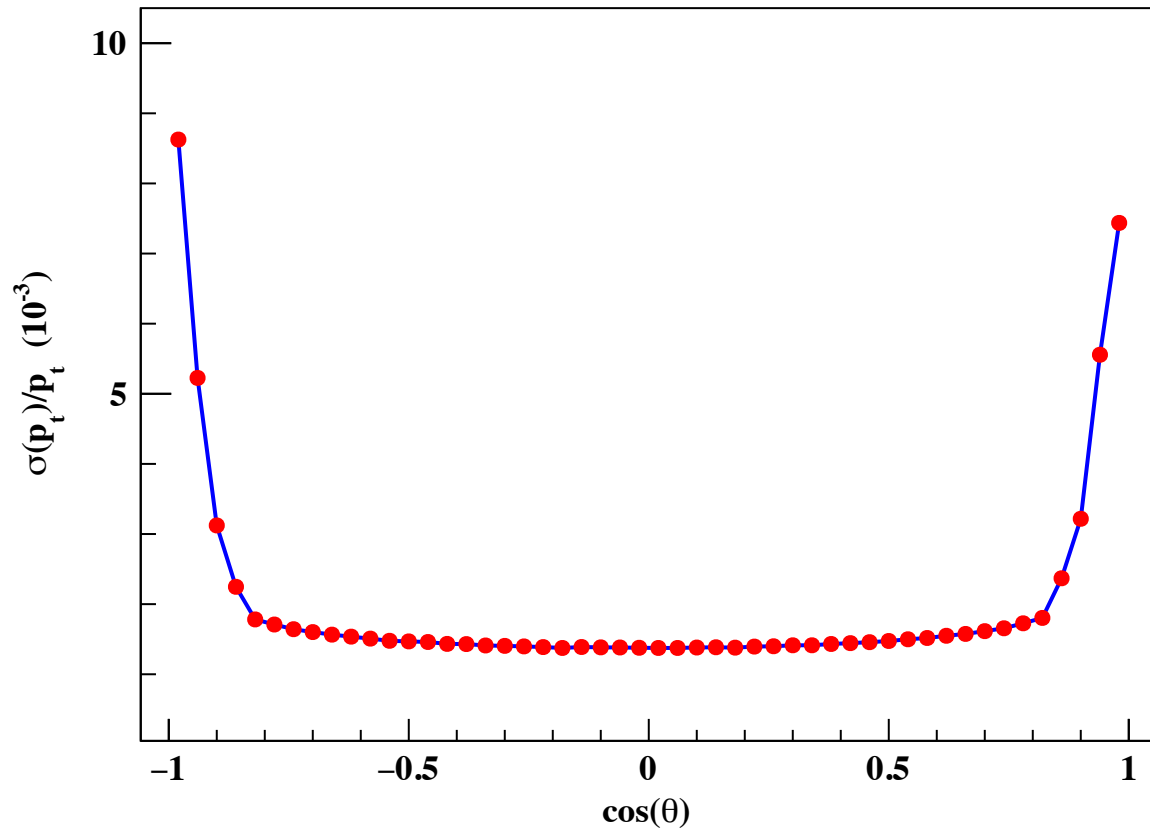


Hit maps: longitudinal and transverse



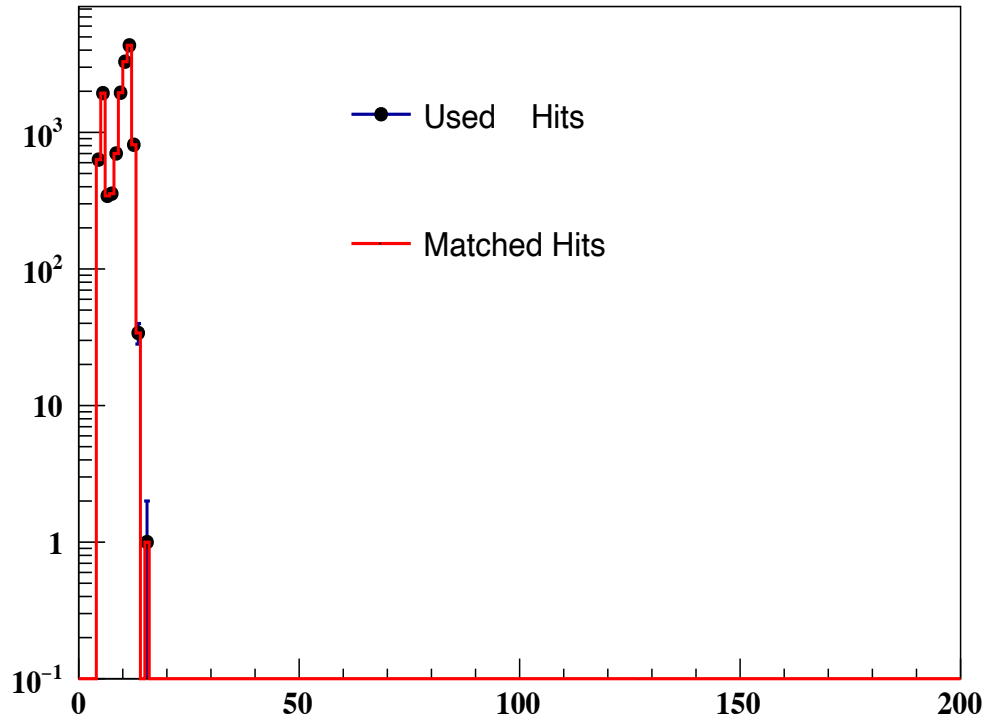
Resolutions and tracking efficiency (cos theta)

the definition of eff. needs more discussion : hit match ?

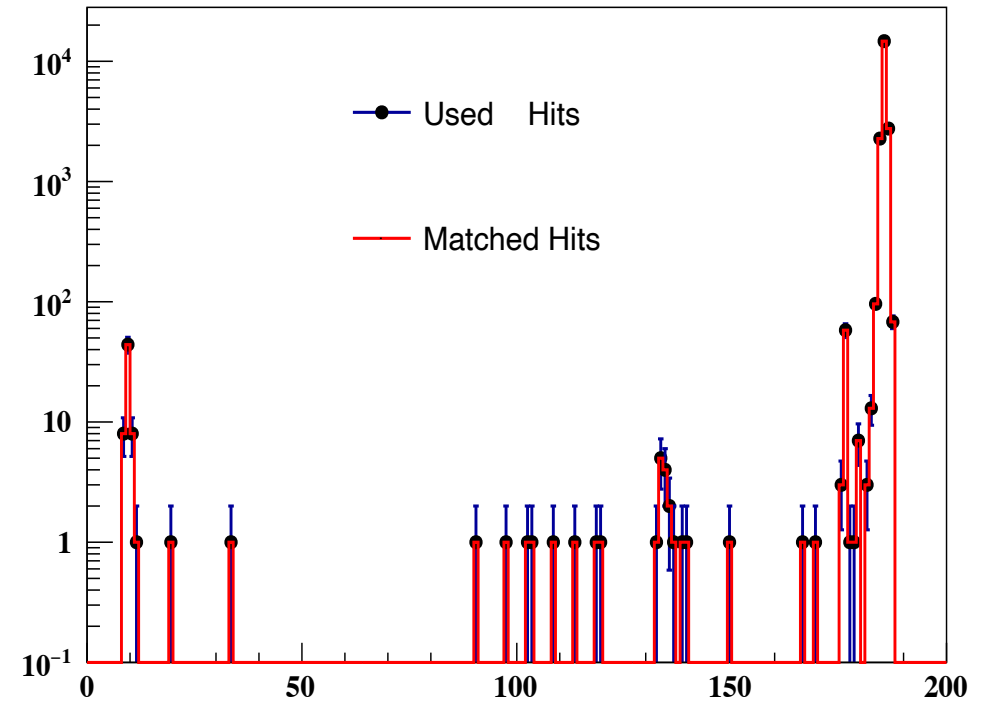


pt = 5 GeV muons

Hits of each track (pt = 5 GeV muons)

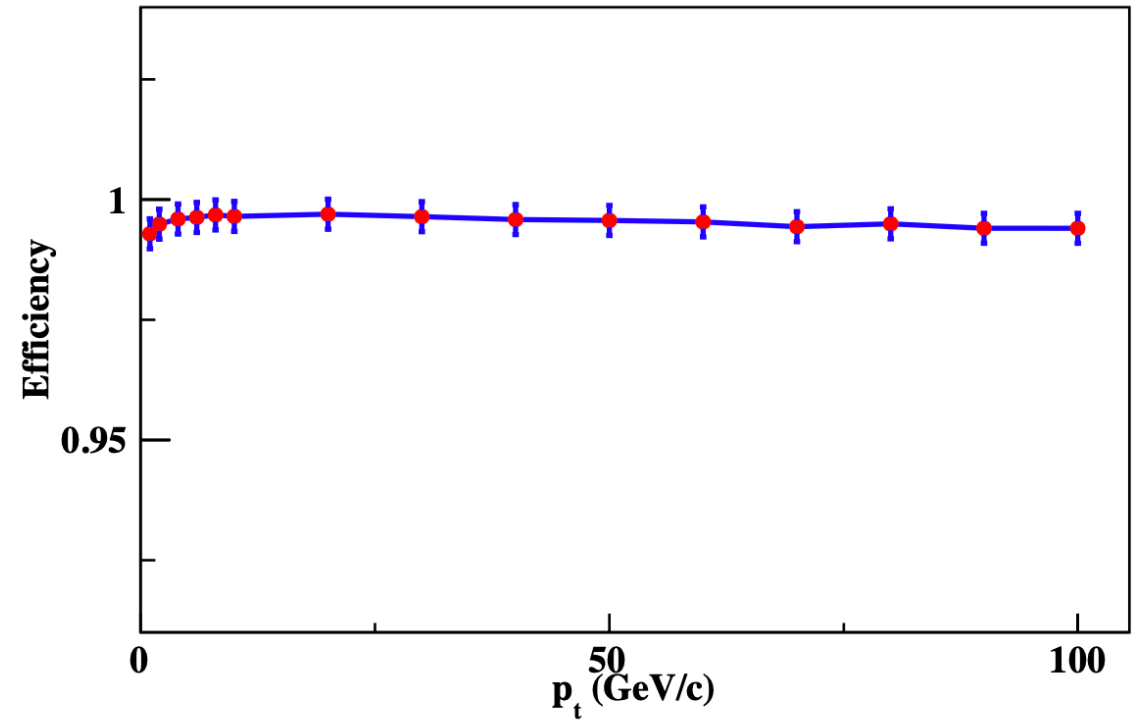
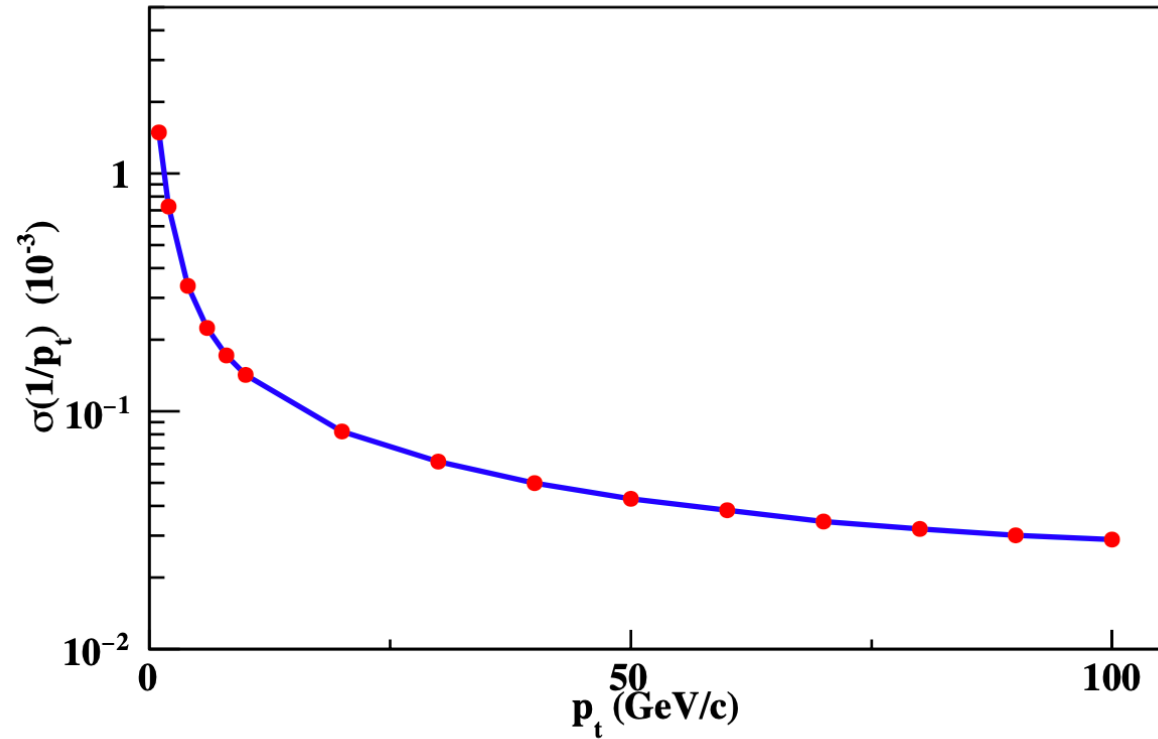


$\cos \theta \sim 0.99$



$\cos \theta \sim 0.01$

Resolutions and tracking efficiency (pt)



Status of full simulation of tracker

- Full simulation ready but needs to validation
 - Tracking reconstruction --- Chengdong's efforts
 - Detector description need more manpower
 - Possible contact person of each sub-system:
 - TPC: Xin She
 - SIT: Xiaojie Jiang and Qinglin
 - Outer tacker: Zhan Li