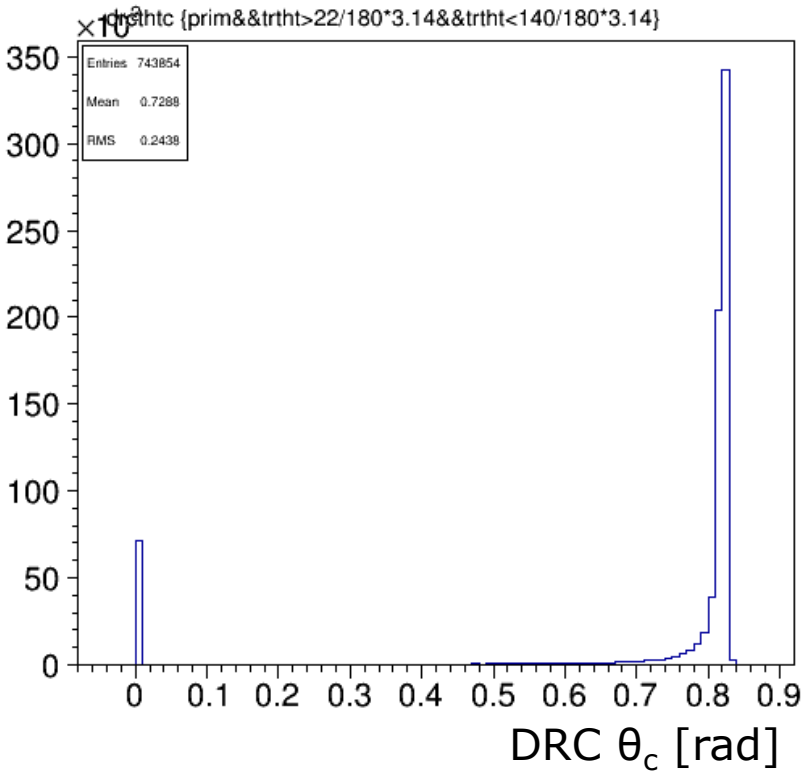
DRC PID
Tracking Efficiency

GSI, Feb. 2014

Klaus Götzen
GSI Darmstadt

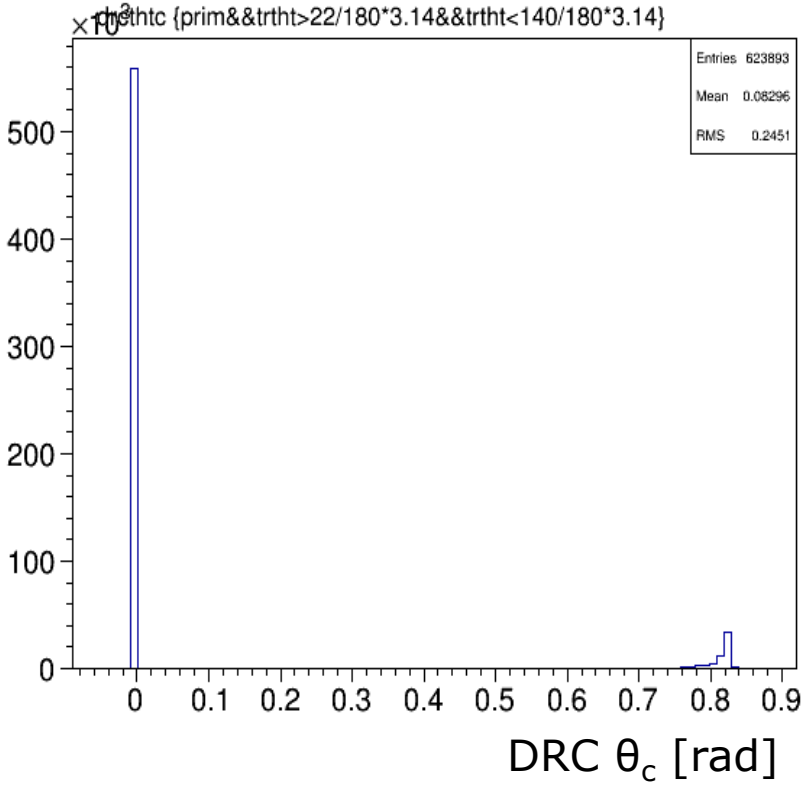
DRC PID Multiplicities

Nov 2013 (1M tracks)



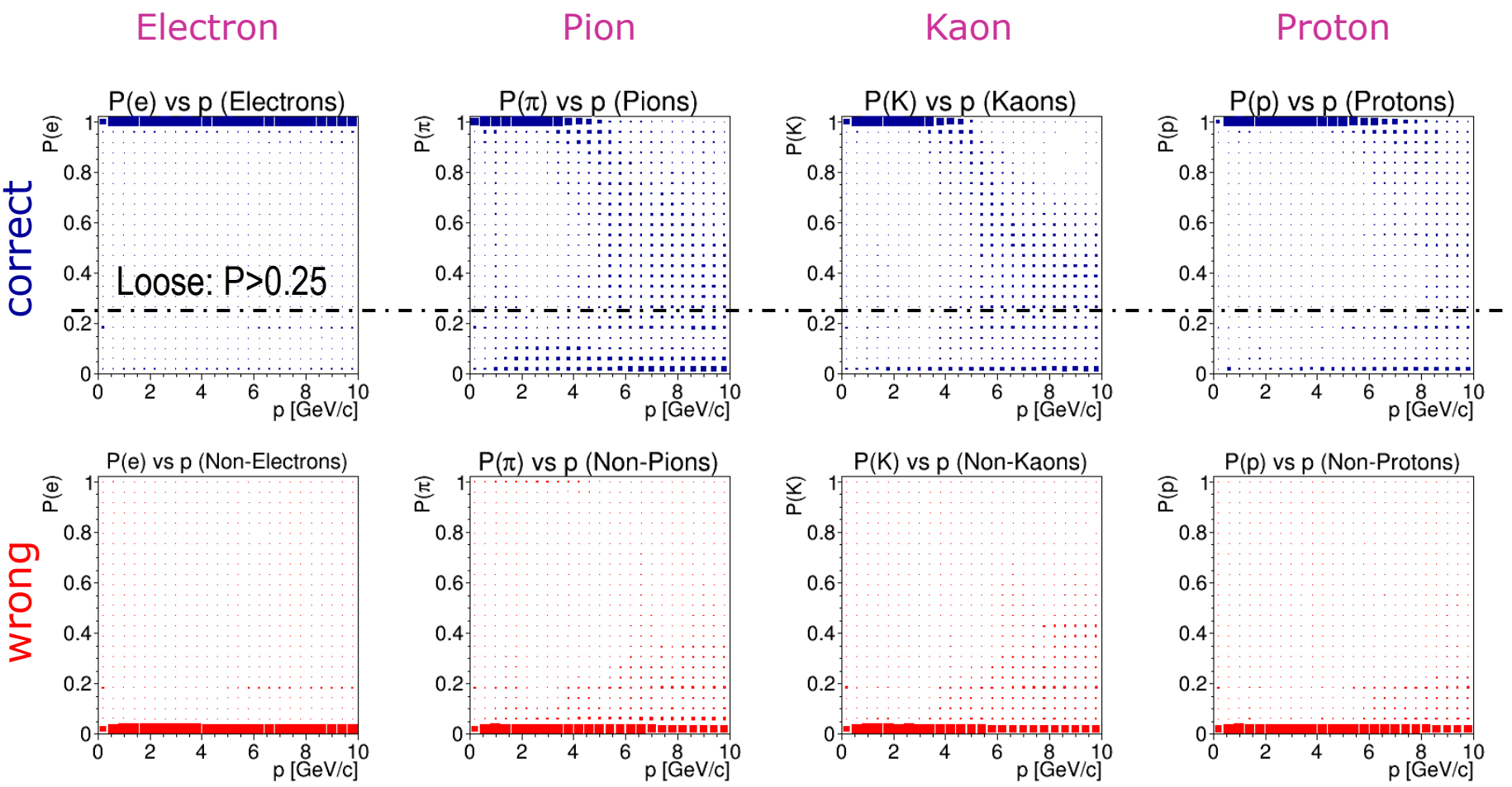
#Trks in DIRC acceptance: 676k
#Trks with DIRC signal: 625k
Eff = 92.4%

Feb 2014 (1.25 M tracks)



#Trks in DIRC acceptance: 567k
#Trks with DIRC signal: 60k
Eff = 10.4%

Total PID - EMC, STT, DRC, MDT

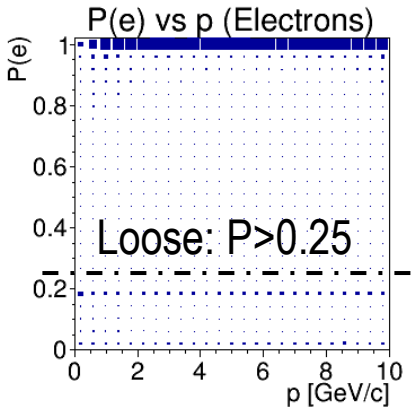


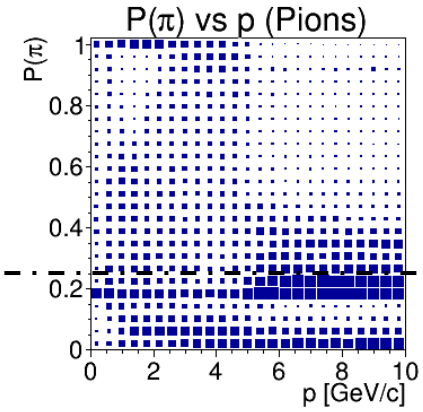
Nov. 2013

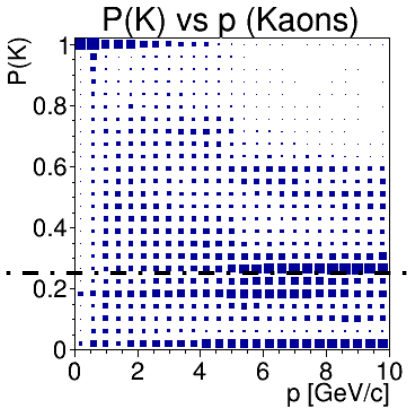
Total PID - EMC, STT, DRC, MDT

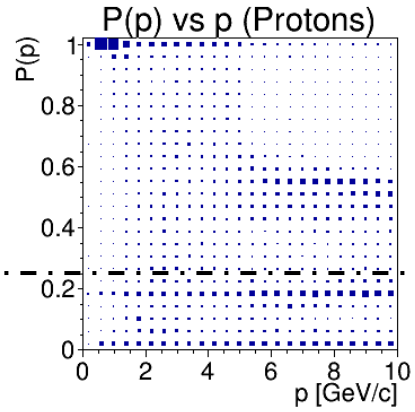
Electron | Pion | Kaon | Proton

correct

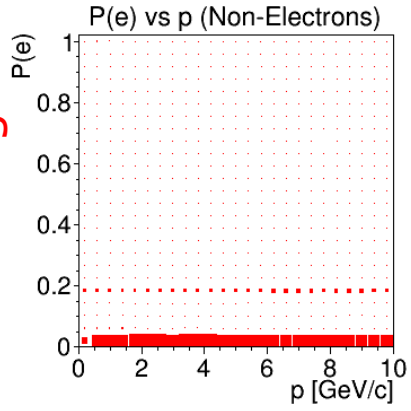


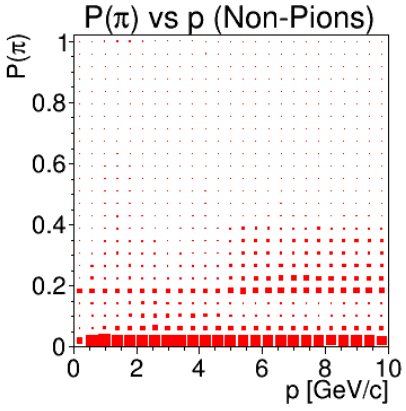


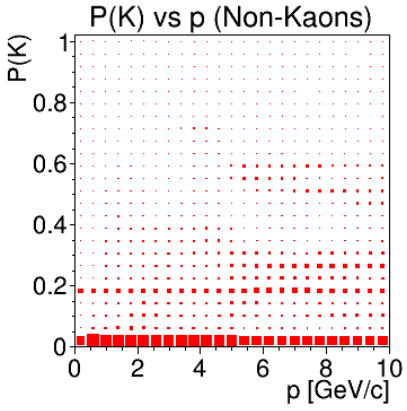


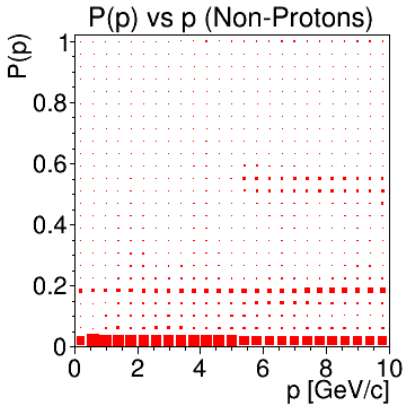


wrong





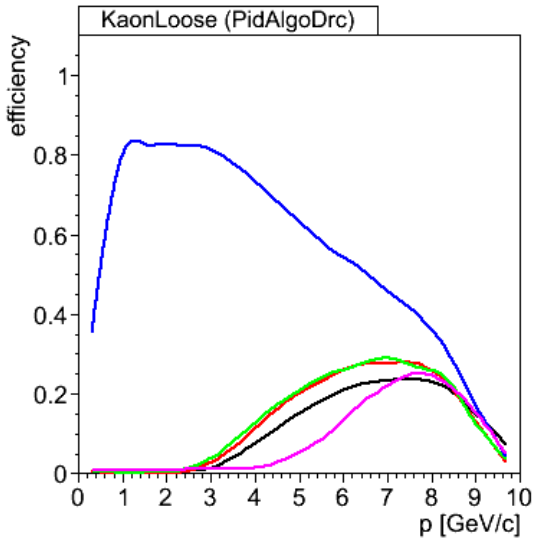




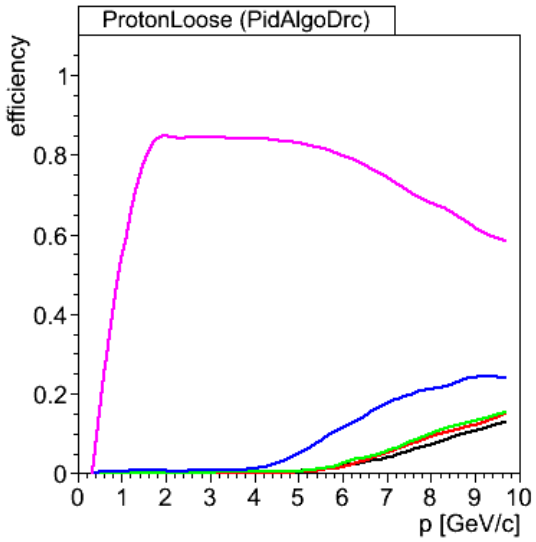
Feb. 2014

Efficiency DRC: Loose

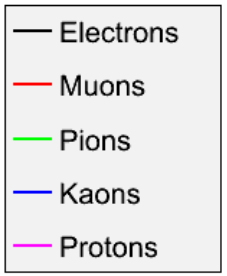
Kaon

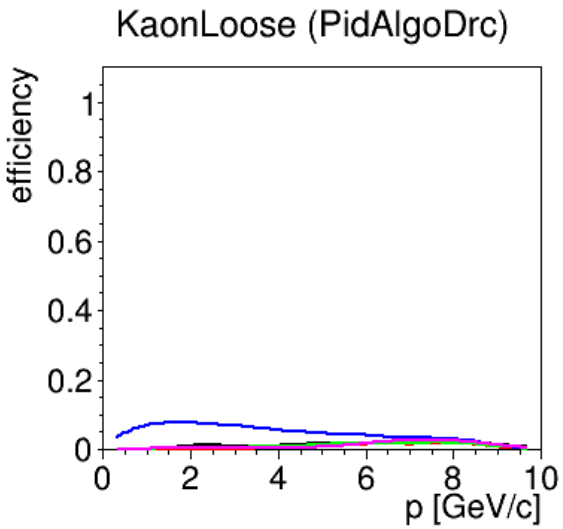


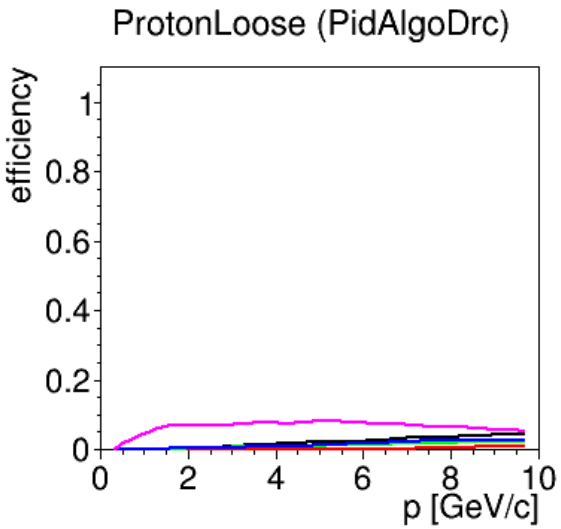
Proton



Nov. 2013







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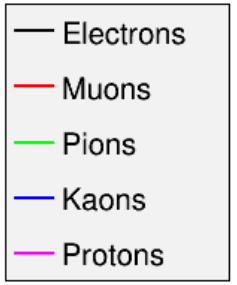
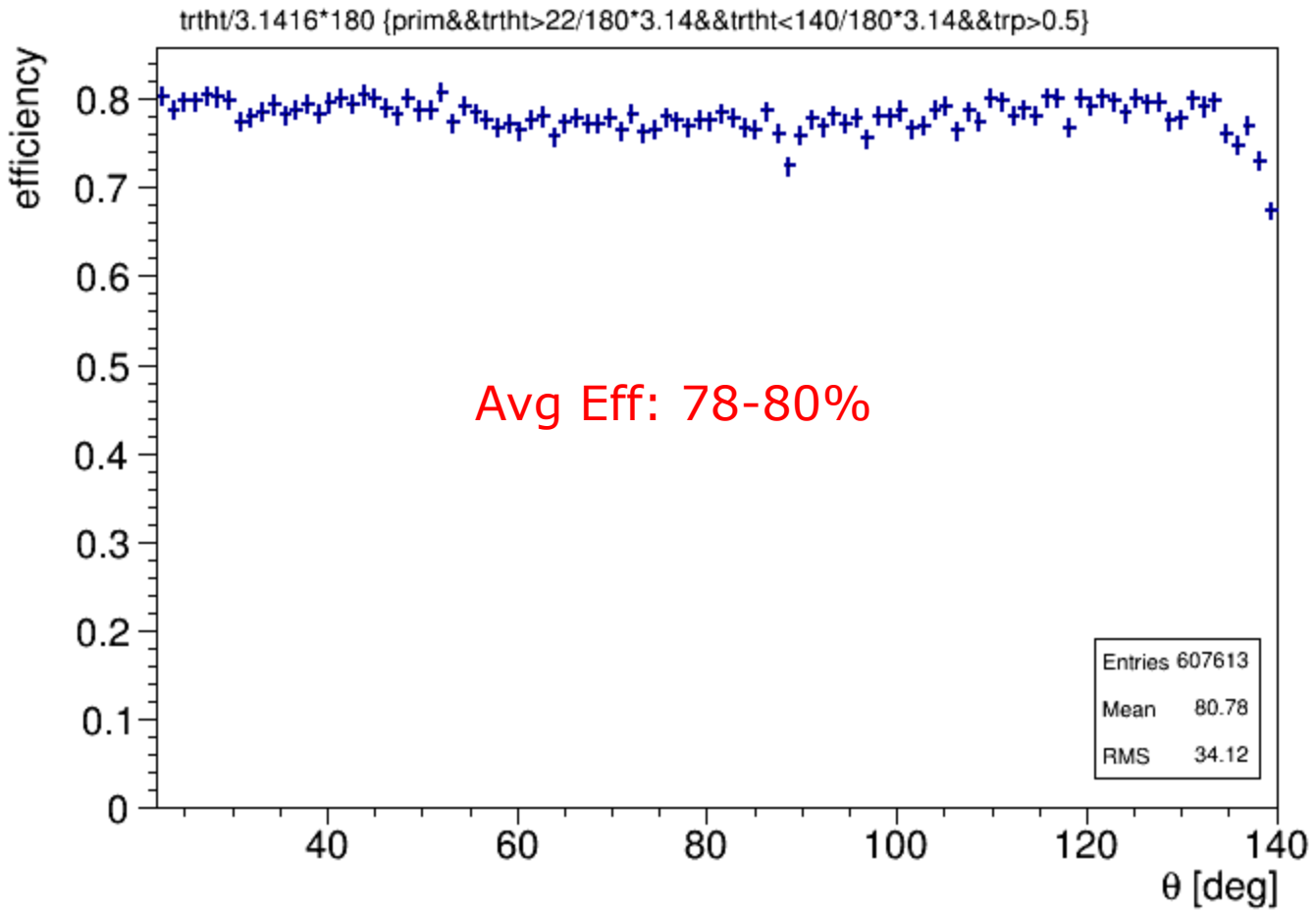


TRACKING
Efficiency

Tracking Efficiency: 22° < θ < 140°

all particle types (e, mu, pi, K, p), p>0.5 GeV/c



Tracking Efficiency: θ < 22°

all particle types (e, mu, pi, K, p)