Subject: Tracking efficiency release/jan14
Posted by Klaus Götzen on Mon, 24 Feb 2014 14:13:57 GMT
View Forum Message <> Reply to Message

Hi,

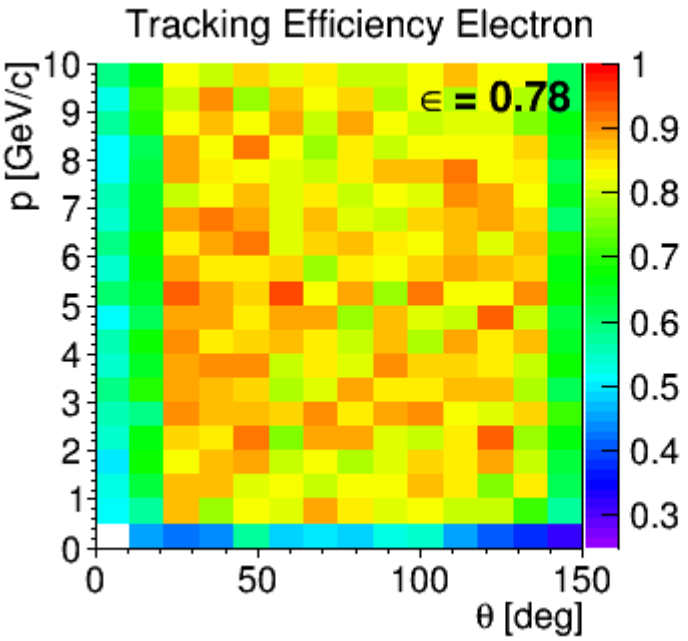
as requested in the evo meeting I prepared the tracking efficiency on analysis level as 2D-plots for the separate species. In the lower right corner the efficiency is shown for theta vs. phi, for the other plots I cut out the well visible target pipe regions with abs(abs(phi)-90°)>4°, so that this doesn't tear down the average efficiencies.

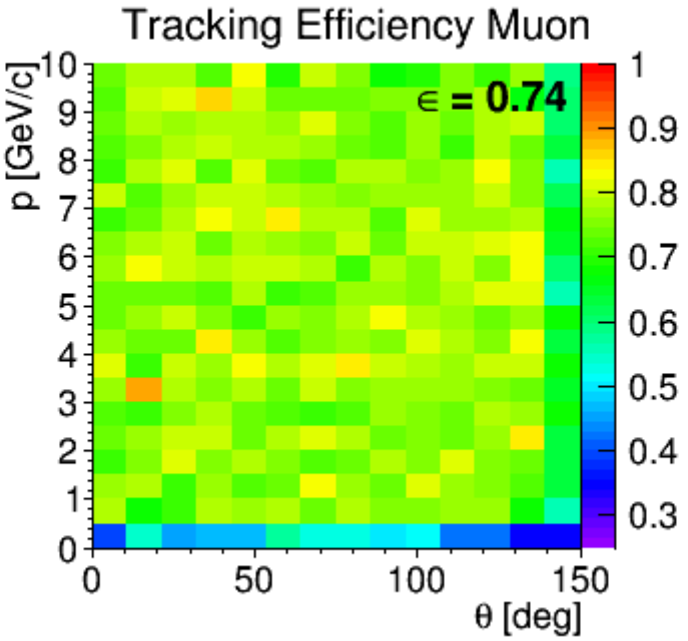
As one can see, the efficiencies are quite flat for p vs. theta, and the average values are around 75%. The average value per species is shown in each plot in the upper right corner. The most homogenious but at the same time worst average values in the barrel region are found for muons. Interesting to note, that for muons the obligatory drop for theta<22 is not really visible.

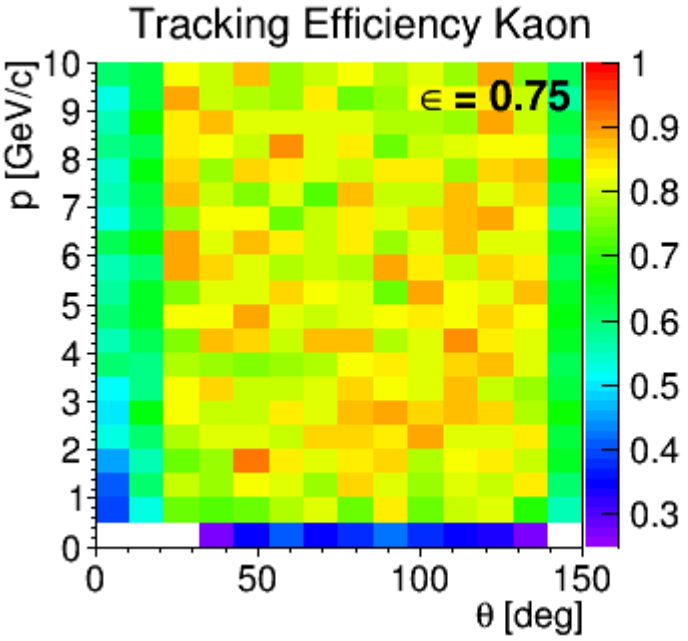
Best,
Klaus

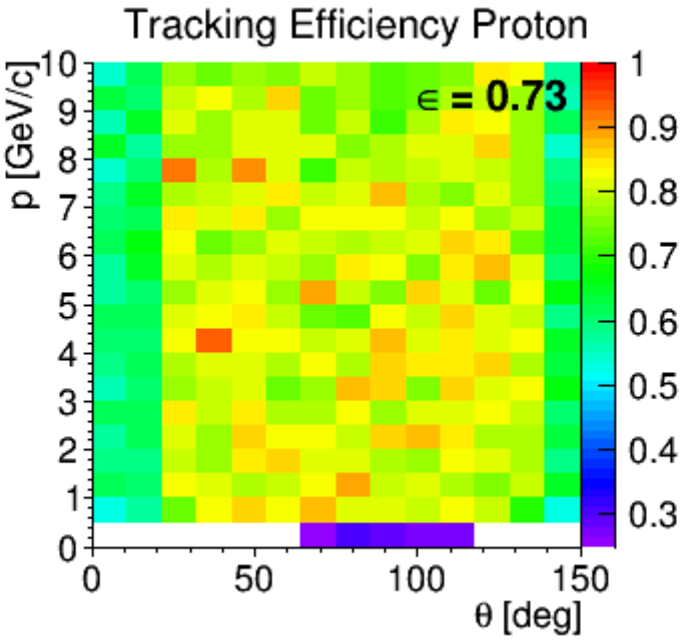
File Attachments

1) trk_eff_2d.gif, downloaded 1802 times


Tracking Efficiency Electron
∈ = 0.78
p [GeV/c]
θ [deg]


Tracking Efficiency Muon
∈ = 0.74
p [GeV/c]
θ [deg]


Tracking Efficiency Kaon
∈ = 0.75
p [GeV/c]
θ [deg]


Tracking Efficiency Proton
∈ = 0.73
p [GeV/c]
θ [deg]