

Start Counter Efficiency

Mahmoud Kamel

Data

ROOT tree produced from the start counter efficiency plugin run as part of the production reconstruction pass on the Spring 2016 data are used. Only run 10492 is used.

Run #	Col (mm)	BC (nA)	# events
10492 02/23	5	30	92 M

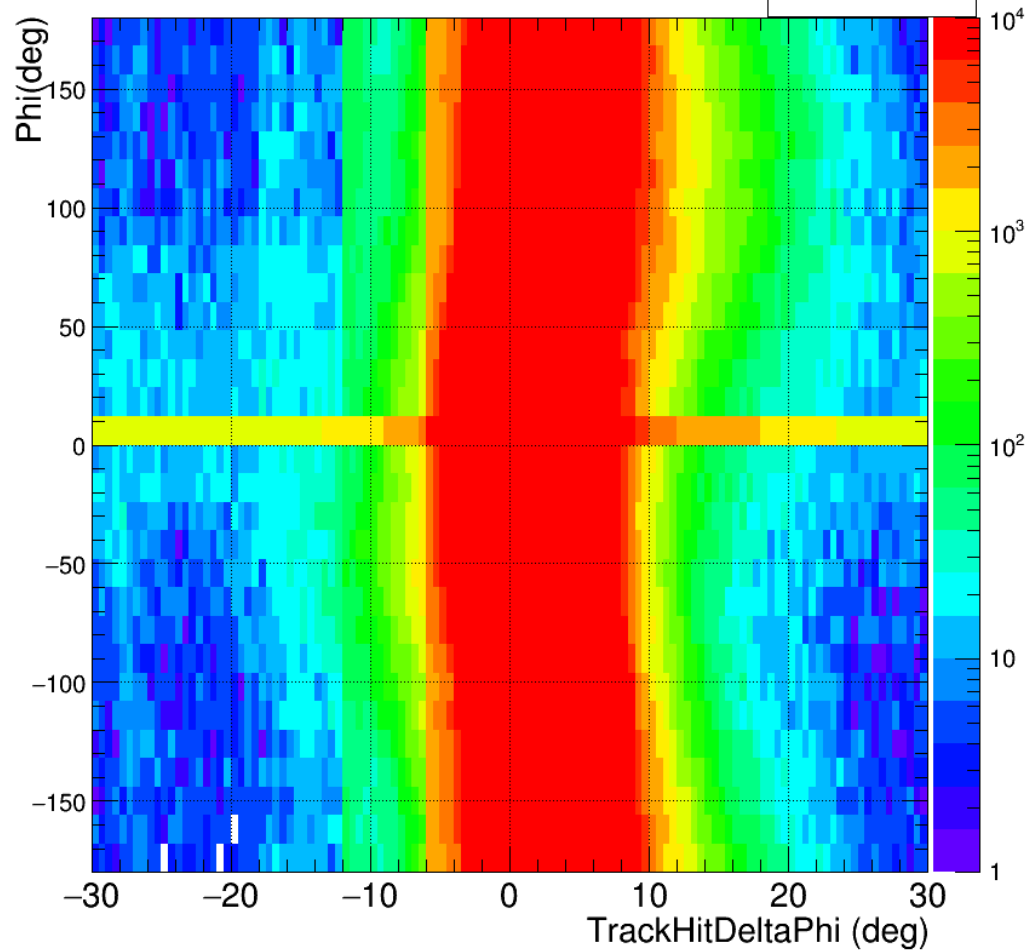
Run: 10492 All Tracks

Y : ProjectedScHitPhi

Y : Sector

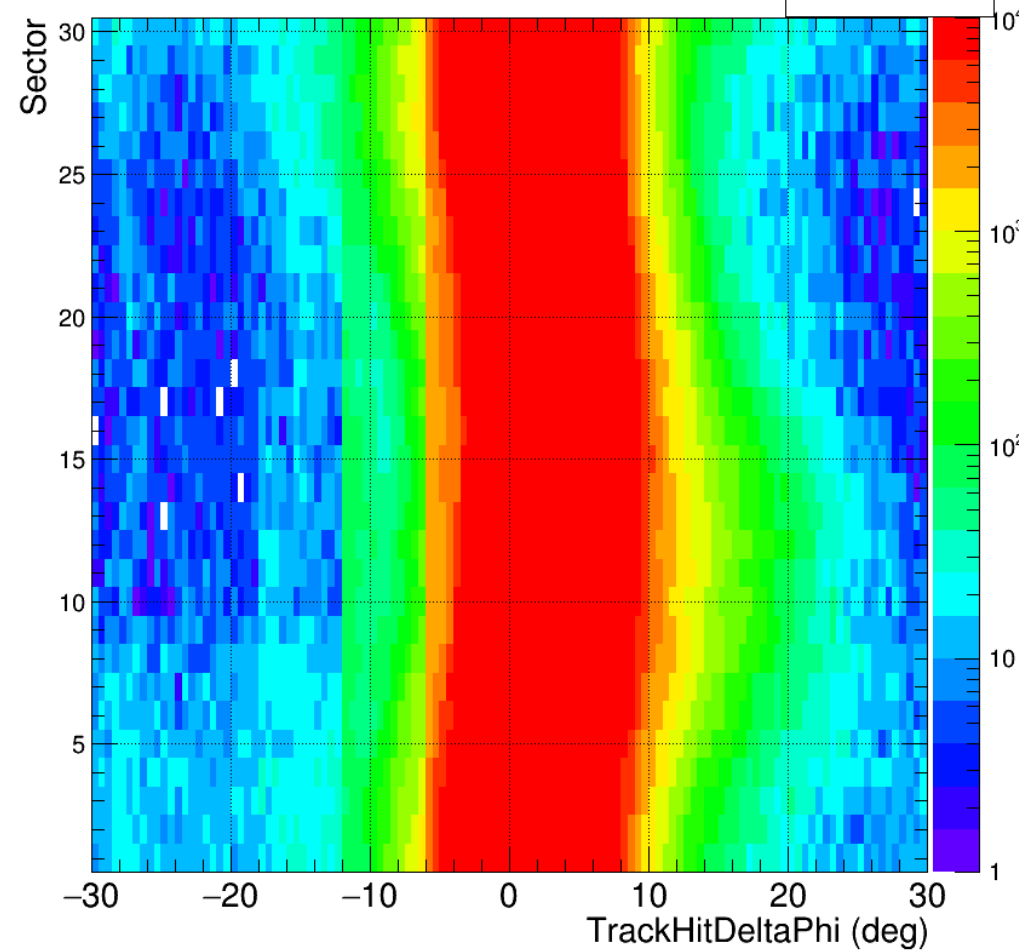
Phi vs TrackHitDeltaPhi

Entries 1.846381e+07



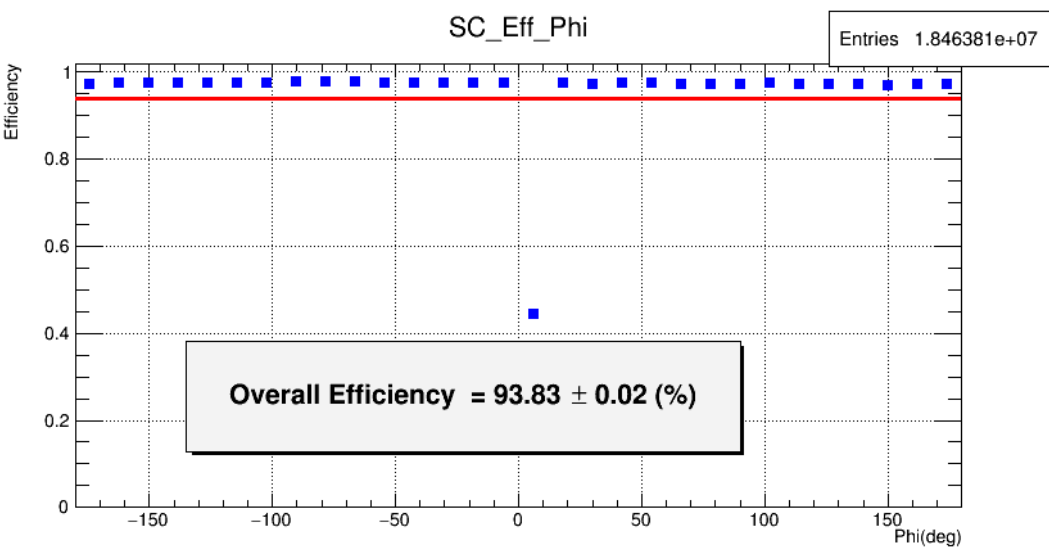
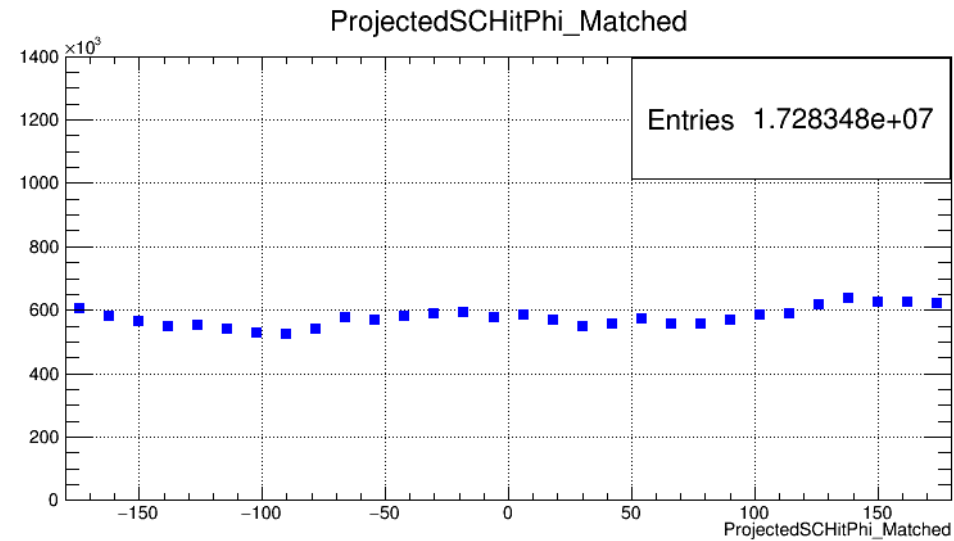
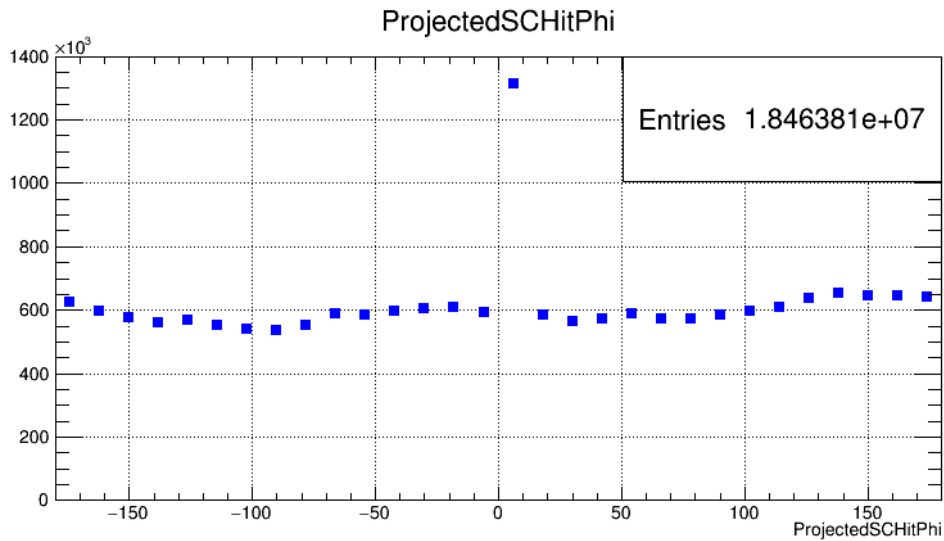
Sector vs TrackHitDeltaPhi

Entries 1.846381e+07



Run: 10492

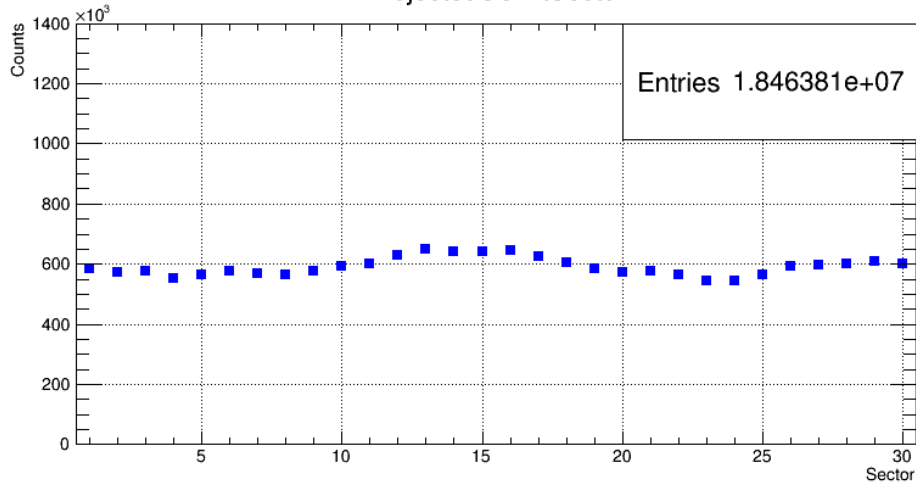
SC_Eff_Phi for all tracks



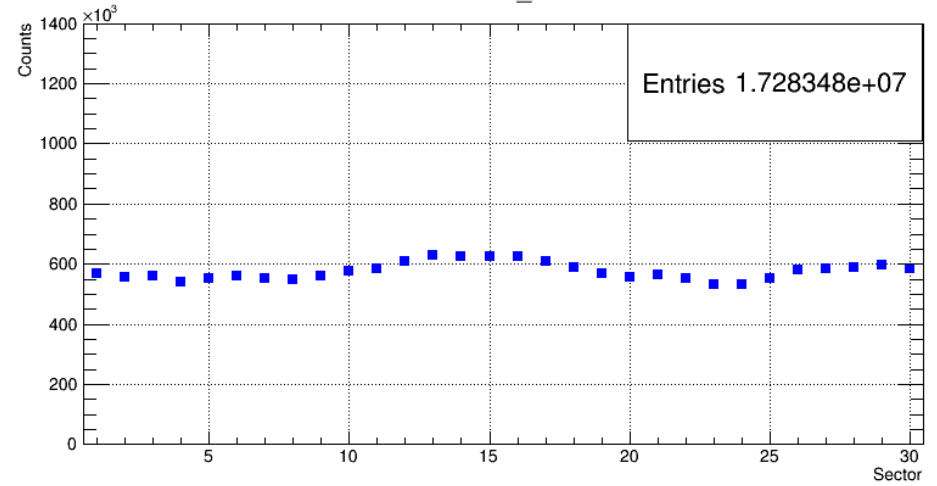
Run: 10492

SC_Eff_Sector for all tracks

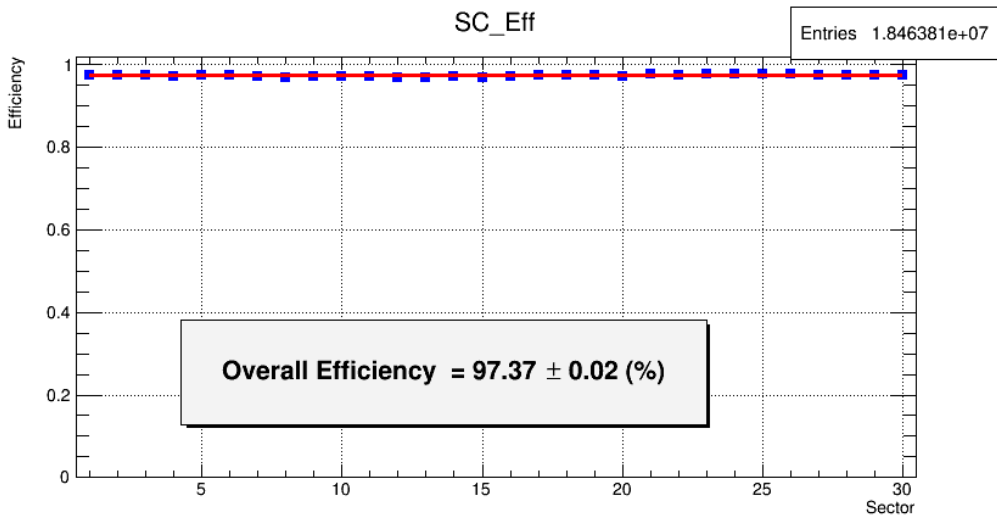
ProjectedSCHitSector



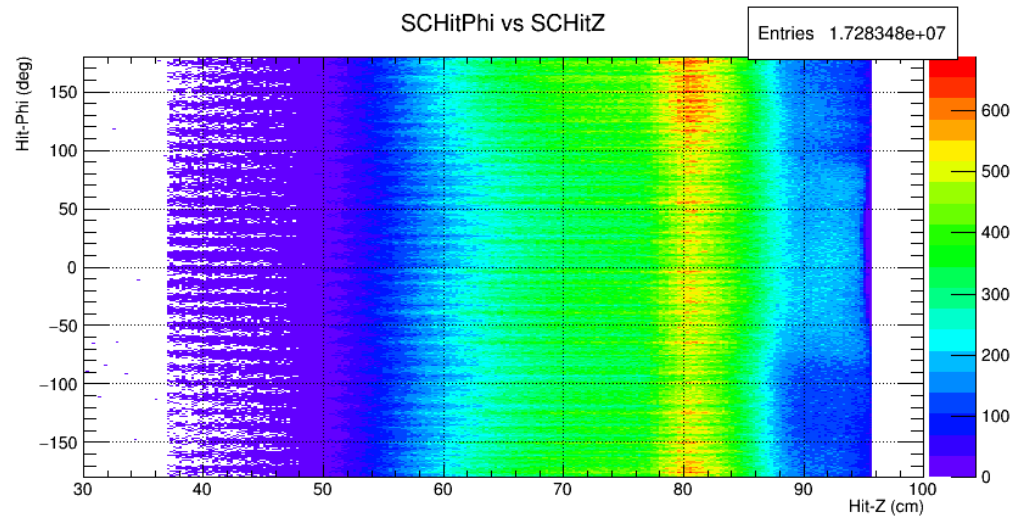
SCHitSector_Matched



SC_Eff

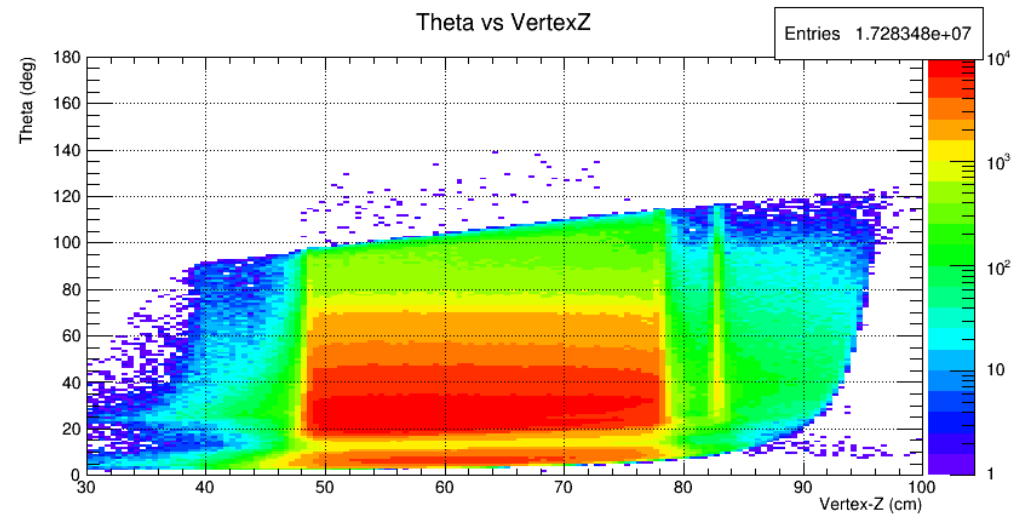
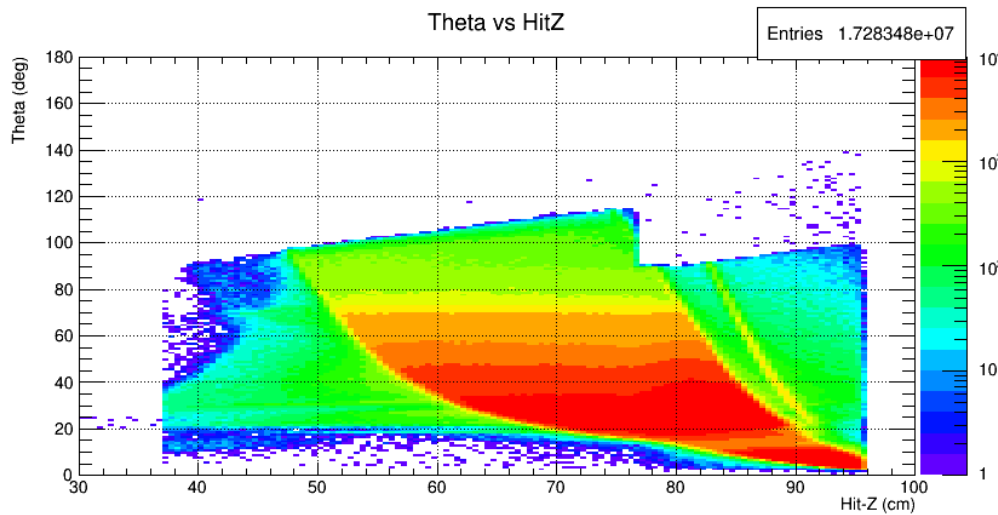
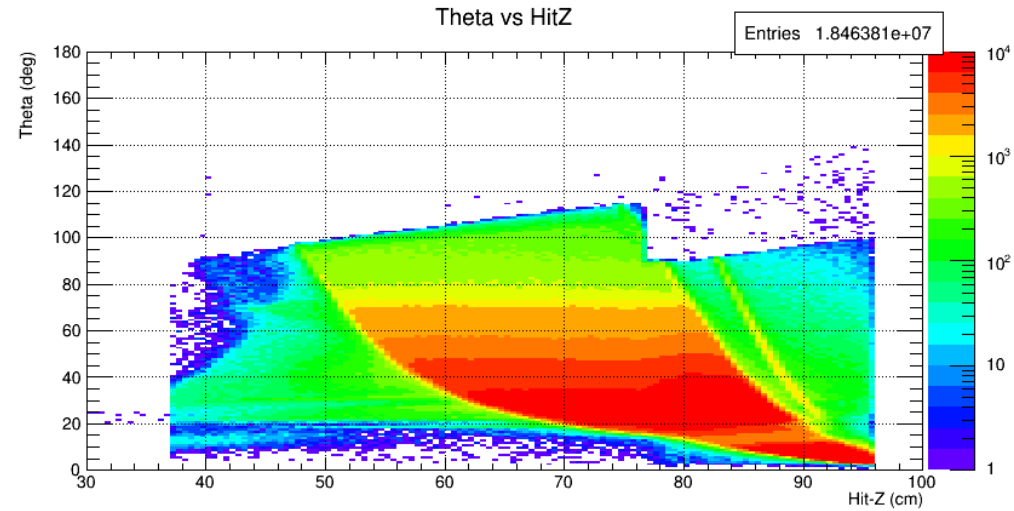
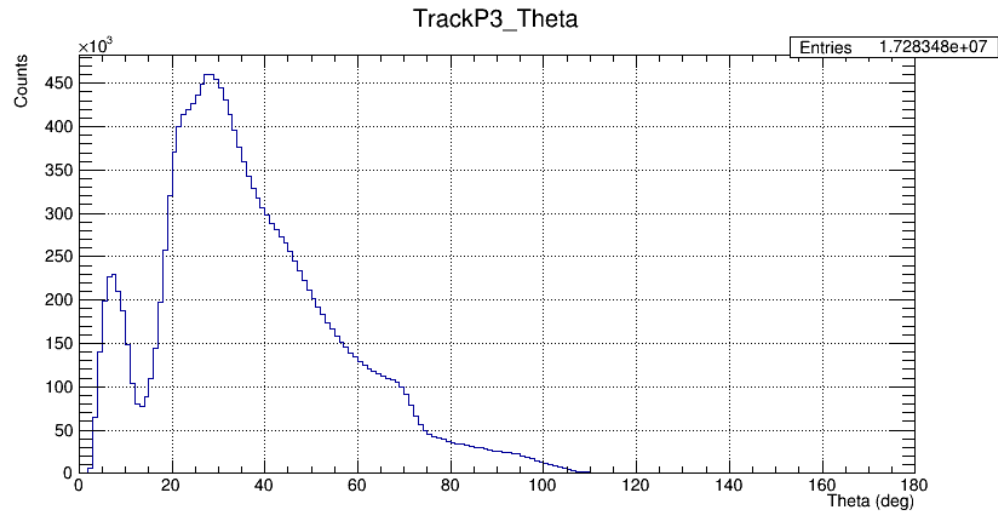


SCHitPhi vs SCHitZ



Run: 10492

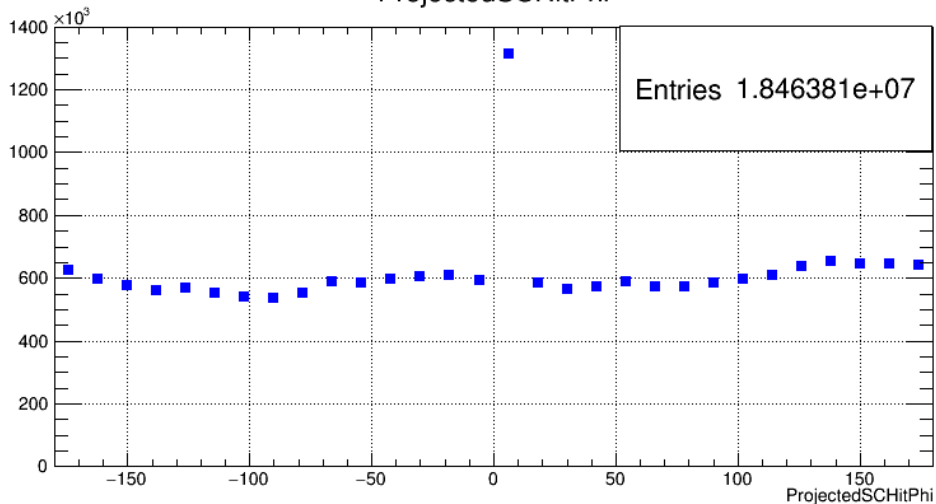
Track direction, Z of SC track intersection and Vertex



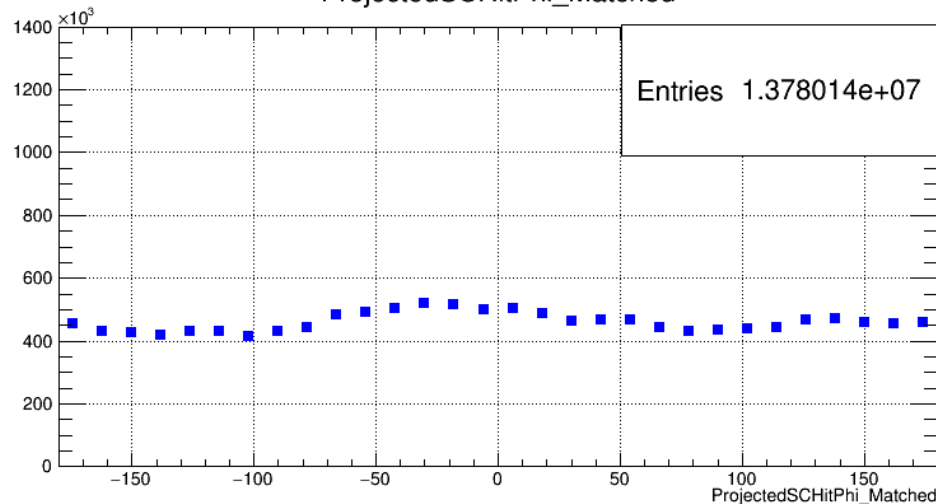
Run: 10492

SC_Eff_Phi for ± 6 degrees $\Delta\Phi$ Cut

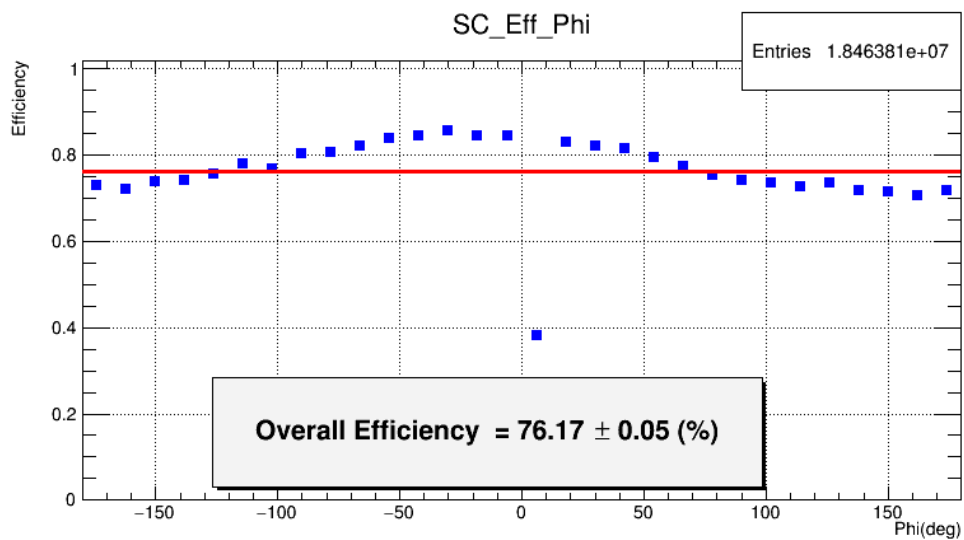
ProjectedSCHitPhi



ProjectedSCHitPhi_Matched

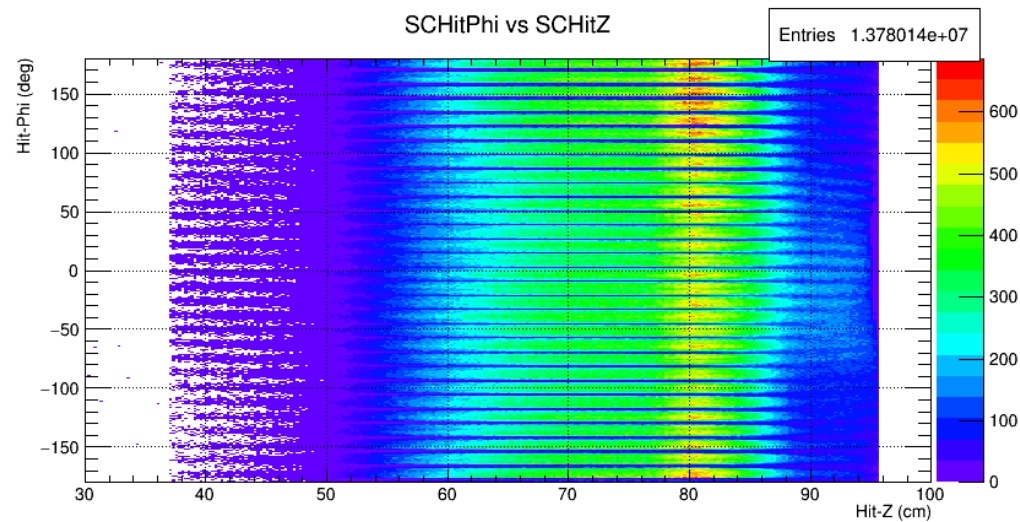
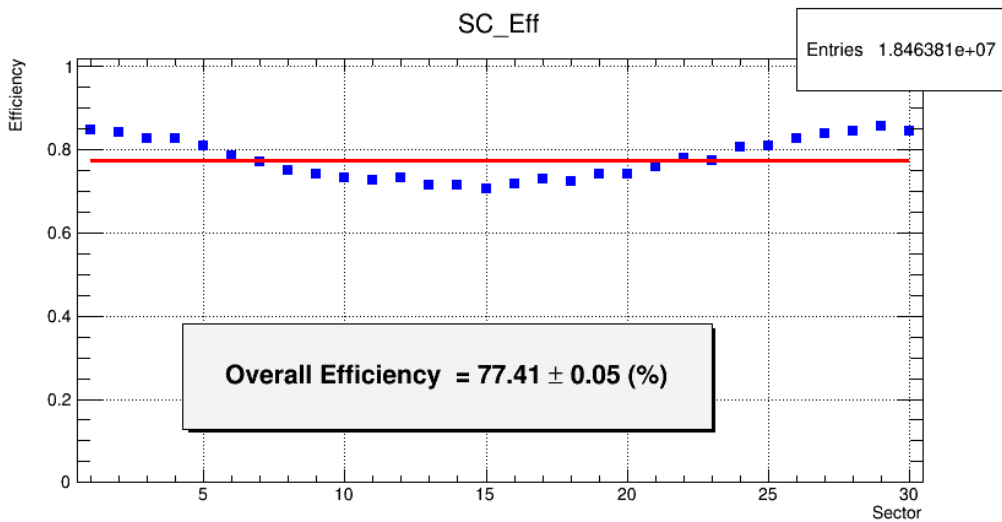
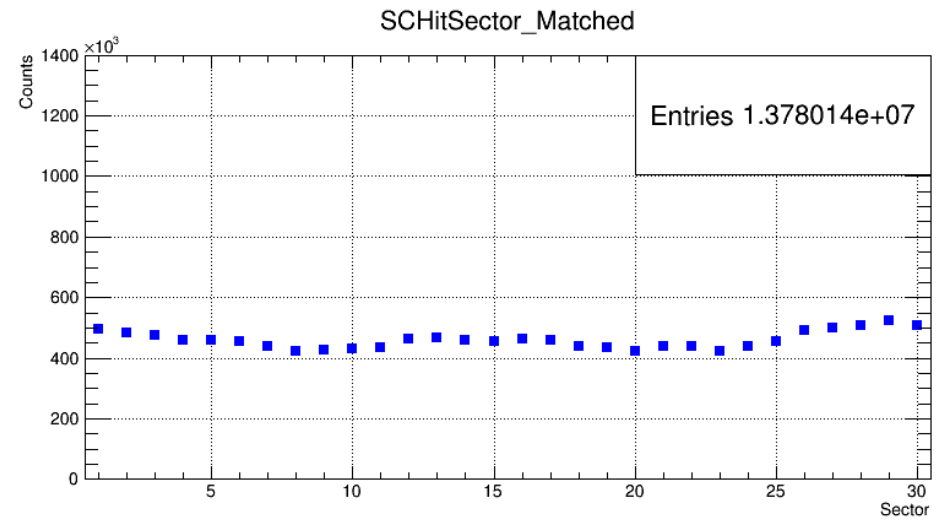
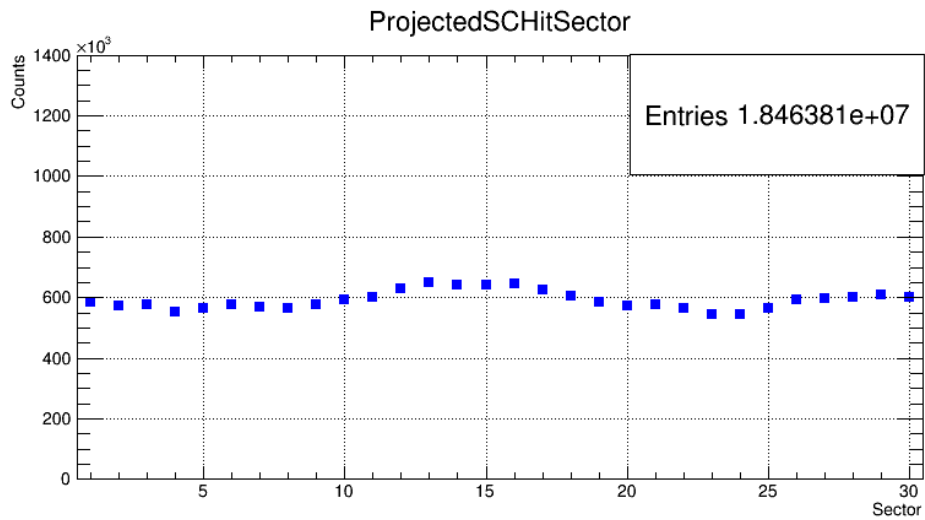


SC_Eff_Phi



Run: 10492

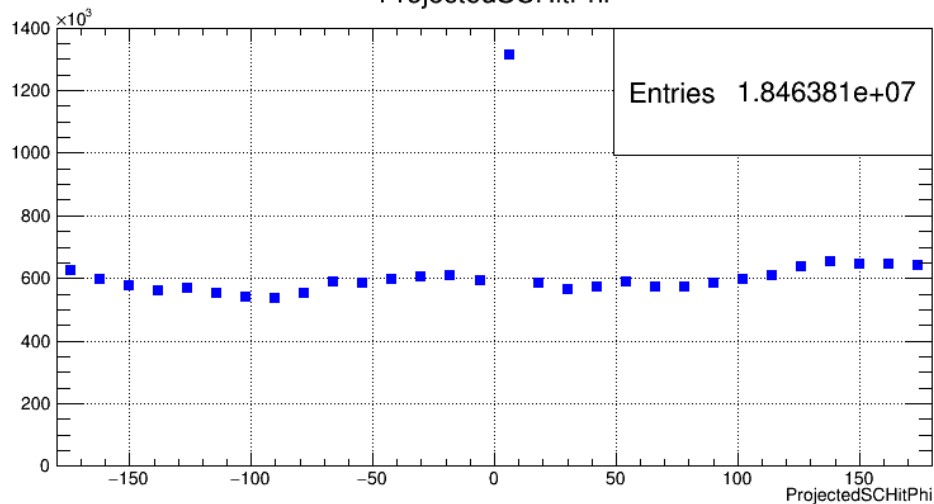
SC_Eff_Sector for ± 6 degrees $\Delta\Phi$ Cut



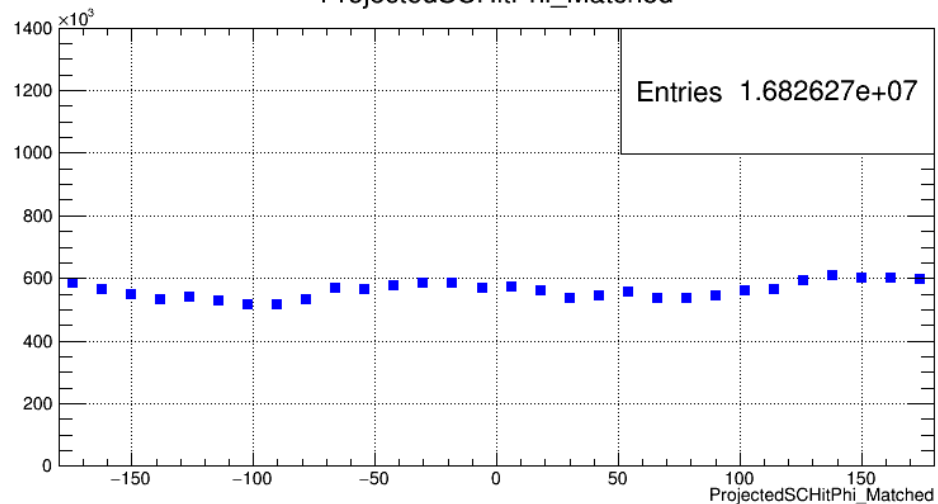
Run: 10492

SC_Eff_Phi for ± 9 degrees $\Delta\Phi$ Cut

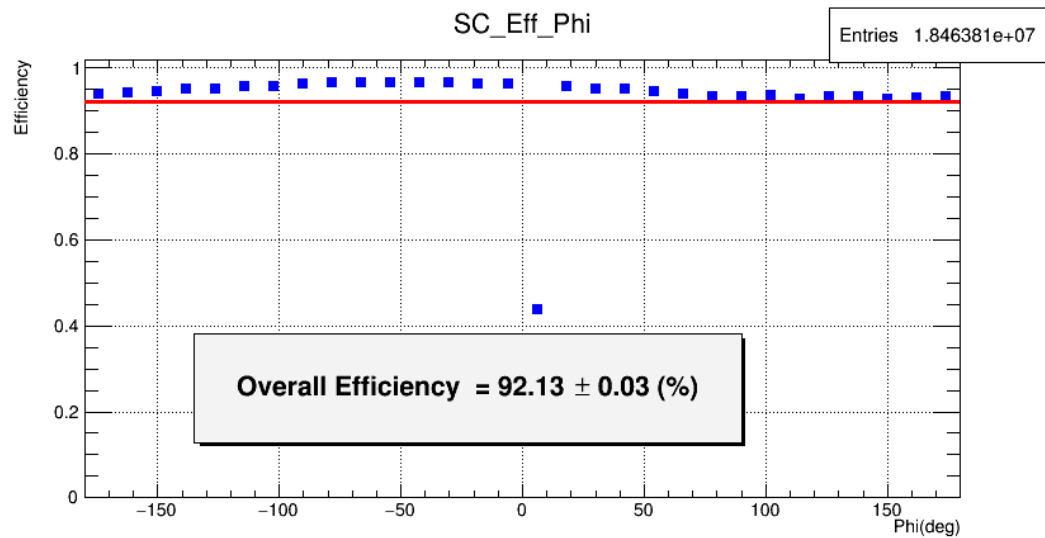
ProjectedSCHitPhi



ProjectedSCHitPhi_Matched

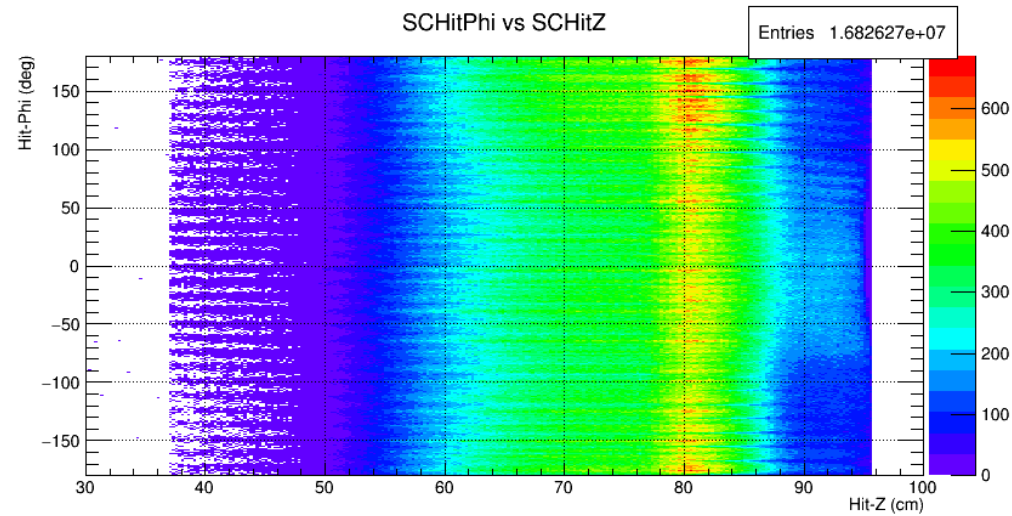
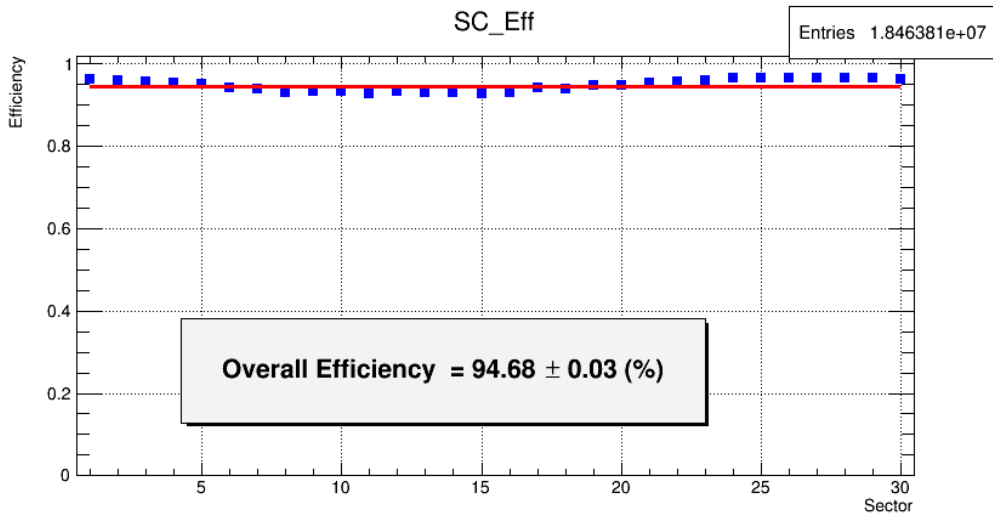
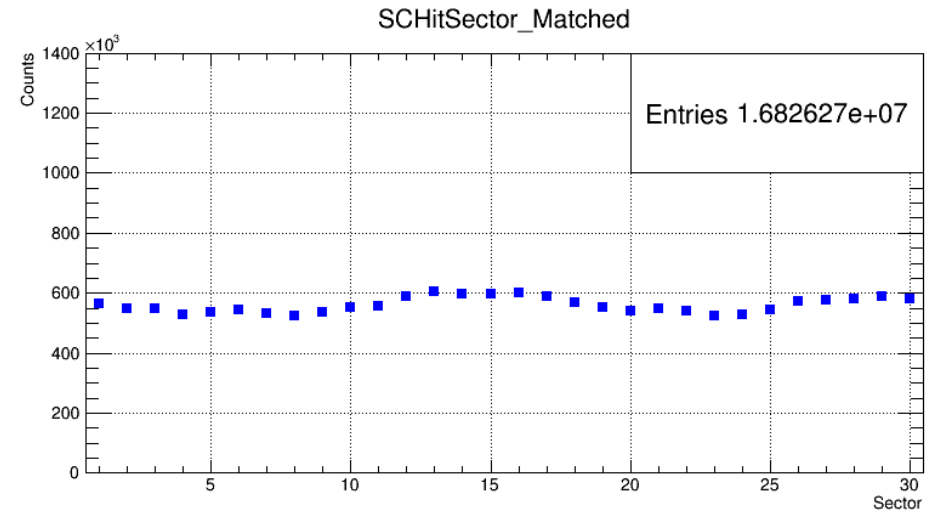
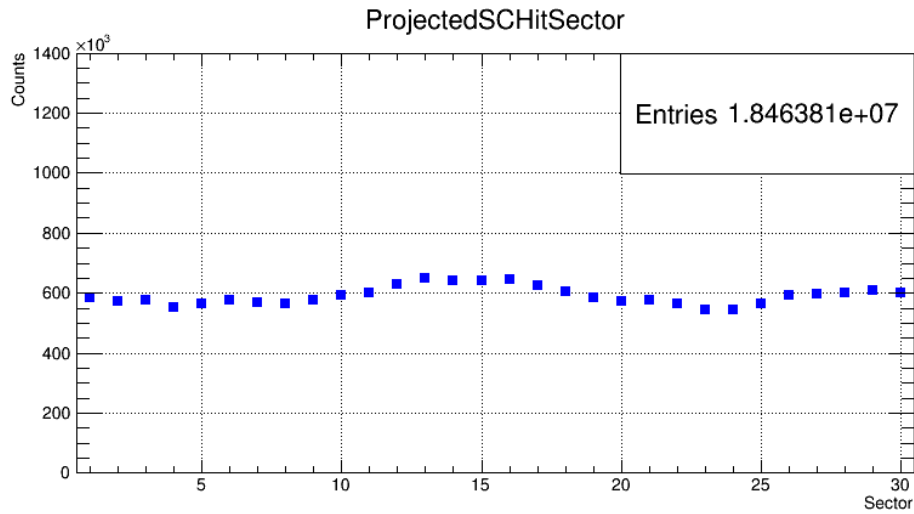


SC_Eff_Phi



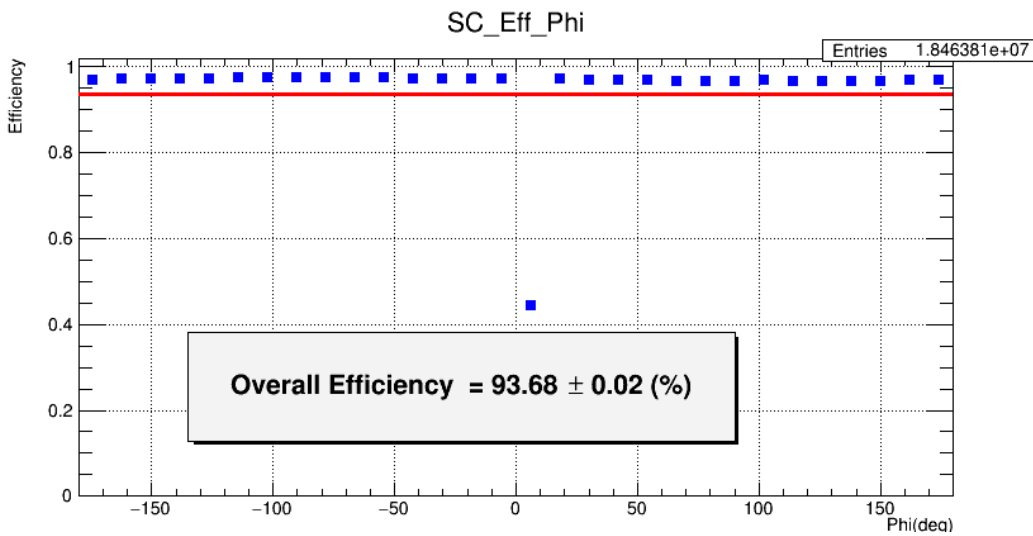
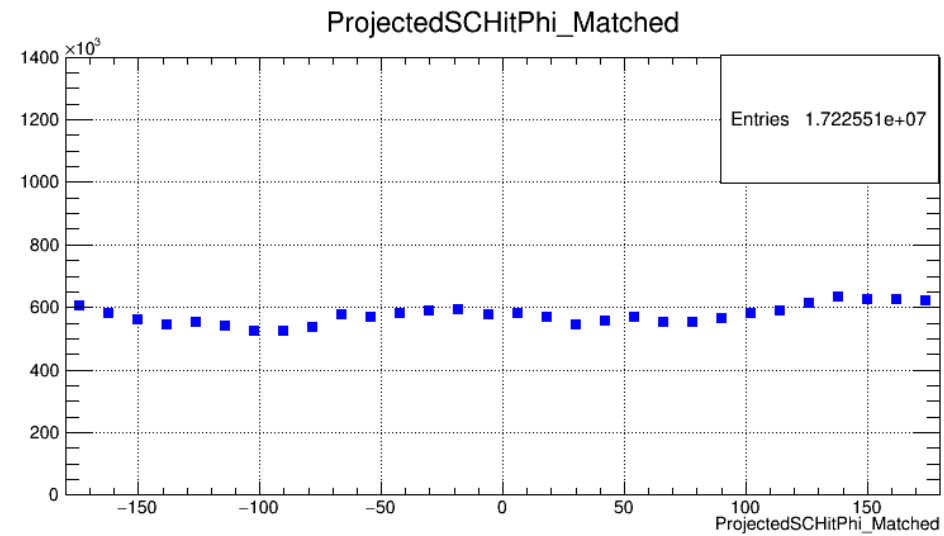
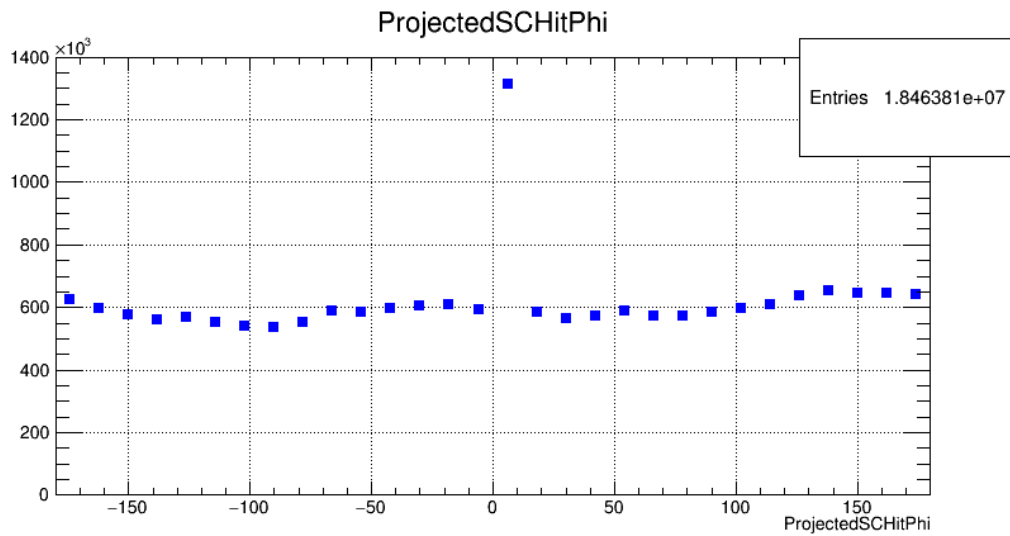
Run: 10492

SC_Eff_Sector for ± 9 degrees $\Delta\Phi$ Cut



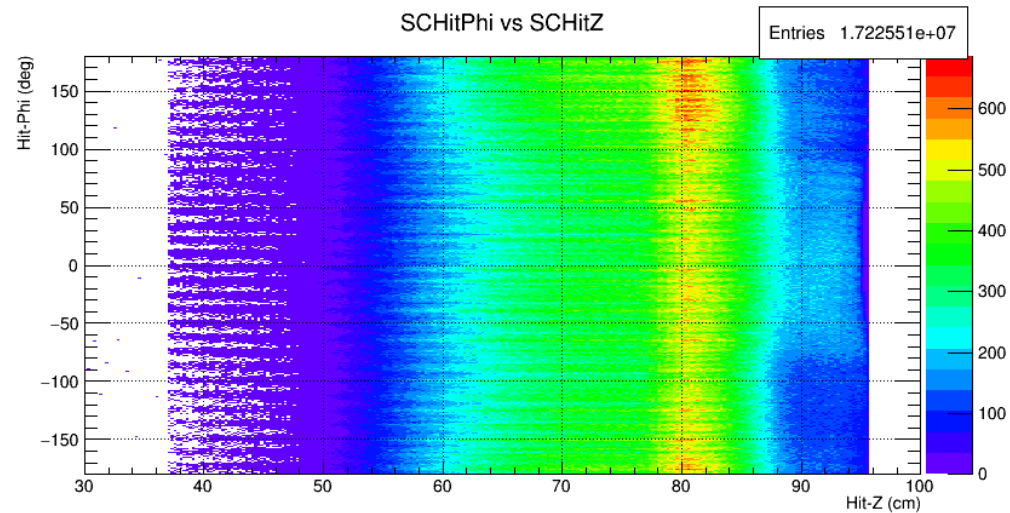
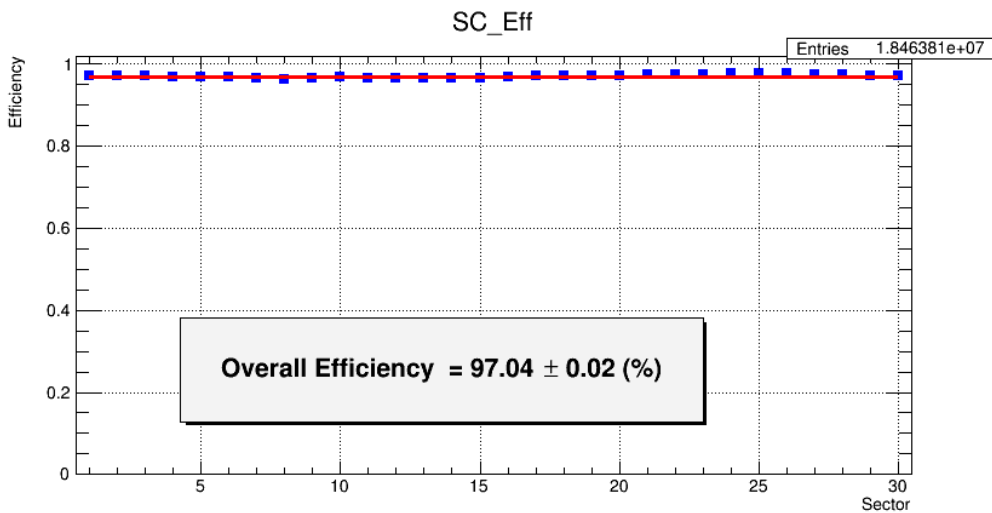
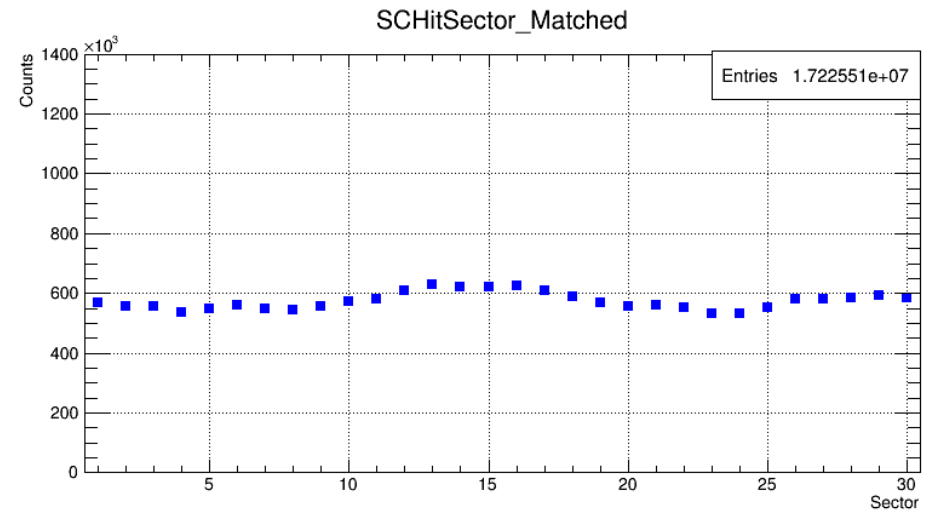
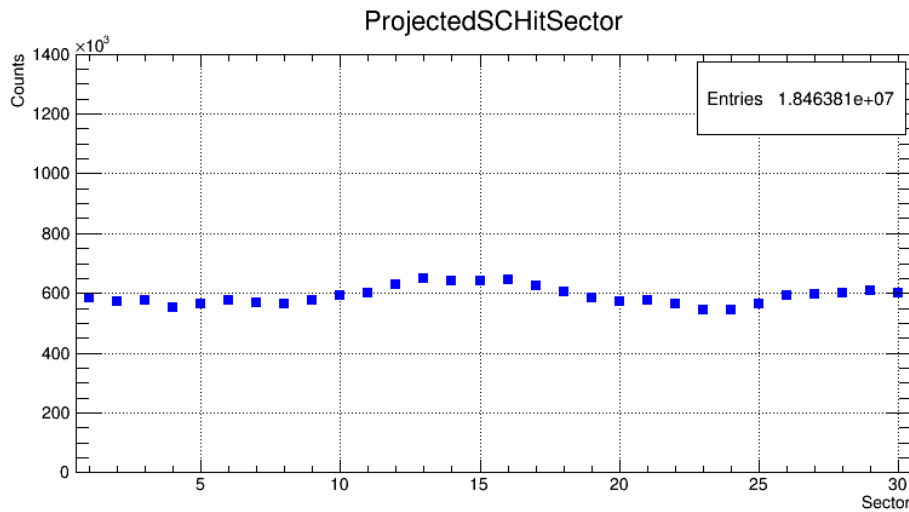
Run: 10492

SC_Eff_Phi for ± 12 degrees $\Delta\Phi$ Cut



Run: 10492

SC_Eff_Sector for ± 12 degrees $\Delta\Phi$ Cut



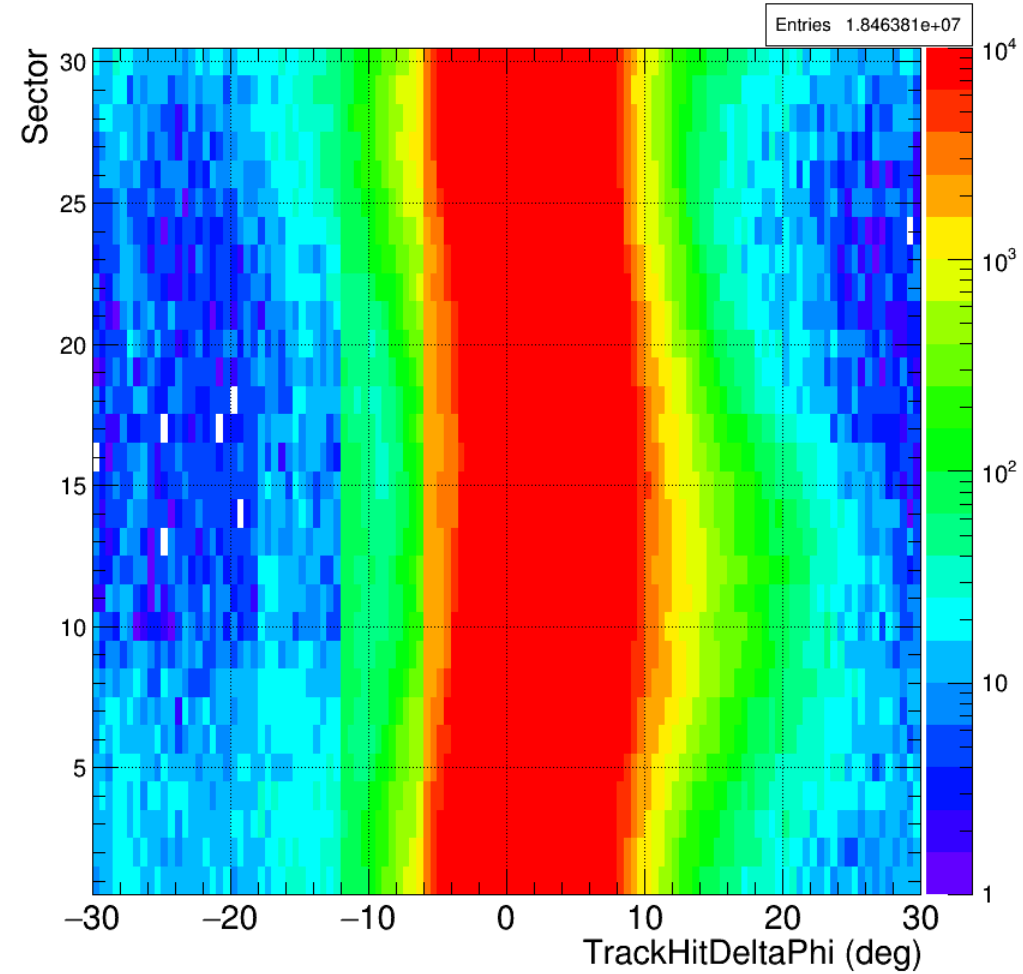
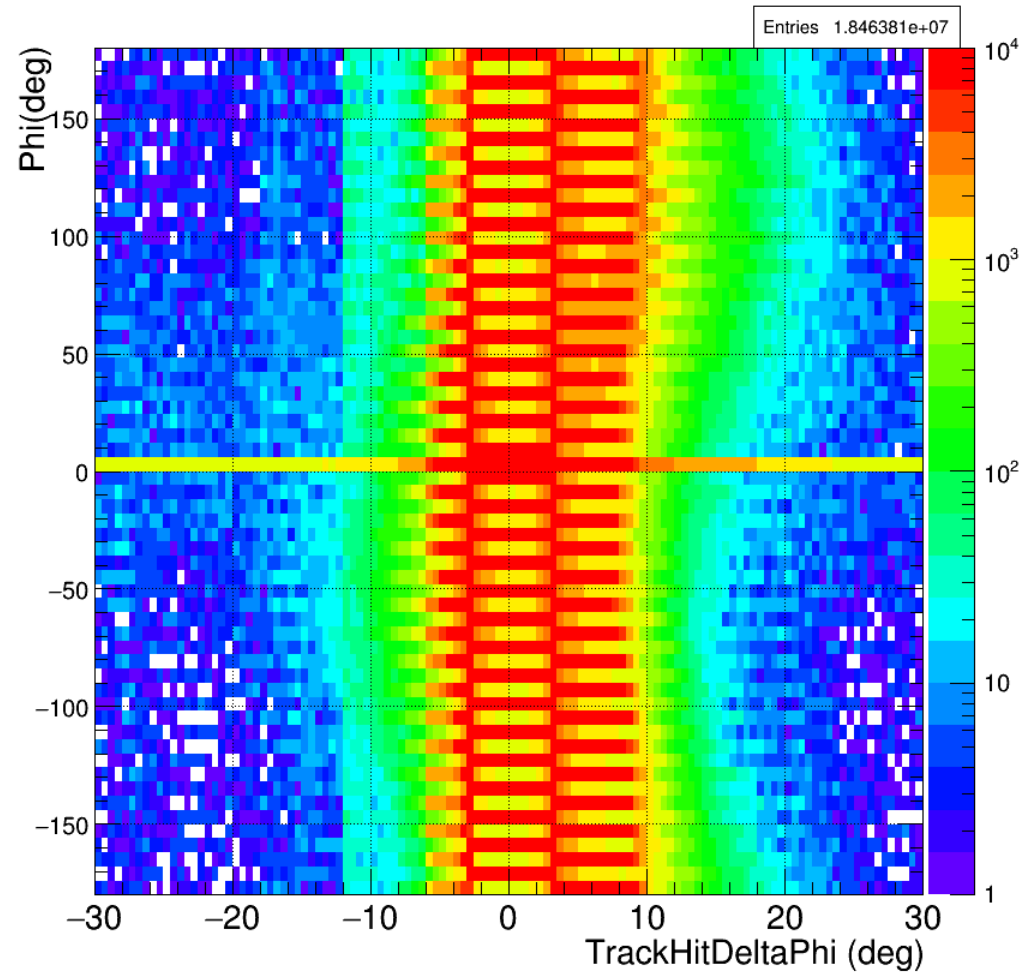
Run: 10492
All Tracks
60 bins in Phi

Y : ProjectedScHitPhi

Y : Sector

Phi vs TrackHitDeltaPhi

Sector vs TrackHitDeltaPhi



Run: 10492

SC_Eff_Phi for all tracks 60 bins

