

π^+ embedding QA 200 GeV Isobar Run18

/star/embed/embedding/*/st_physics_adc_*.MuDst.root

Number of events: 614245 / 388602

5 π^+ per event

Event Cuts:

$$|V_z| < 30 \text{ cm}, |\Delta V_z| < 3 \text{ cm}$$

Track Cuts:

Primary tracks

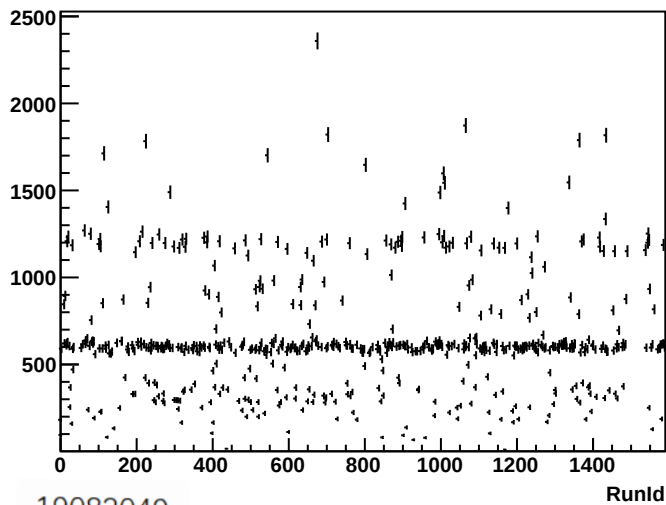
$$p_T > 0.2 \text{ GeV}, |\eta| < 1$$

$$n\text{Hits} > 15, n\text{Hitdedx} > 10, n\text{Hits}/n\text{Poss} > 0.52$$

$$g\text{Dca} < 2.0 \text{ cm}$$

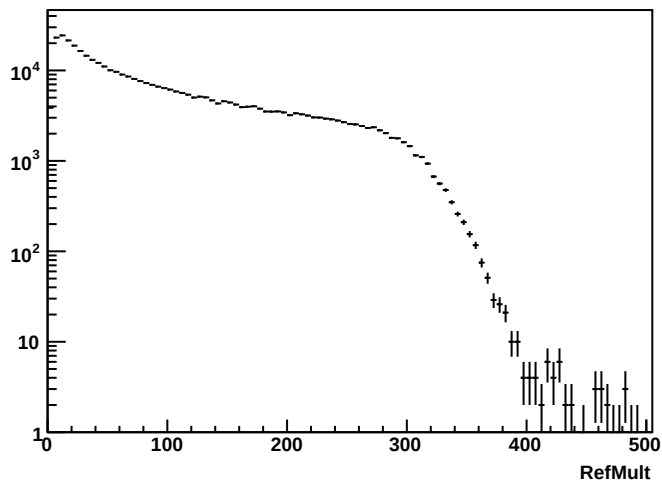
Request Description		
Pi+	5M	$p_T=[0-5]$; (30k for $p_T=[5-20]$ GeV) trigger ID: MB selection {600001, 600011, 600021, 600031}; -35<vz < 25cm; 5 embedded particles per event ; eta <1; P20ic, (2018)
pi-	5M	
K+	1M	
K-	1M	

hevt

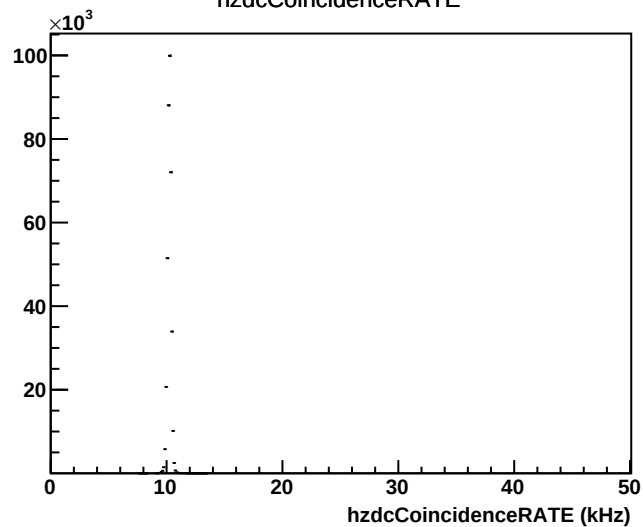


19083049

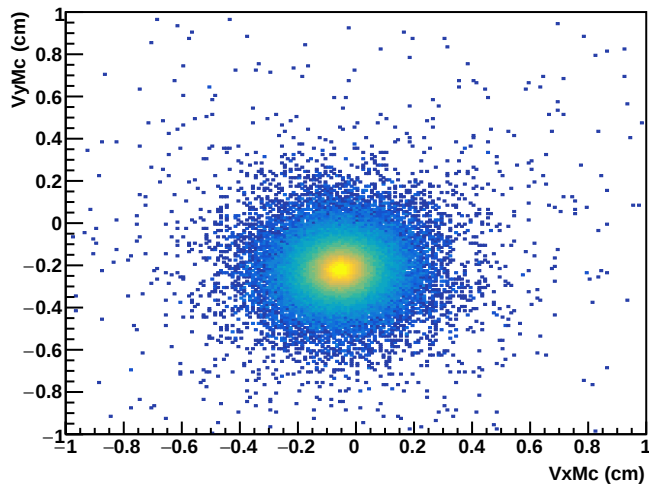
hgRef



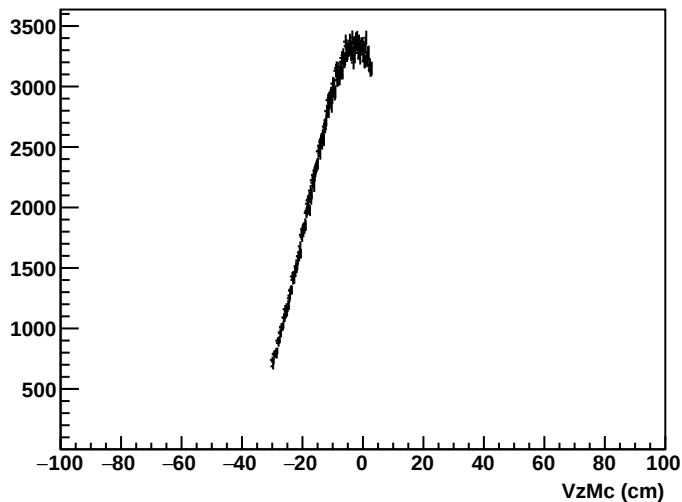
hzdcCoincidenceRATE



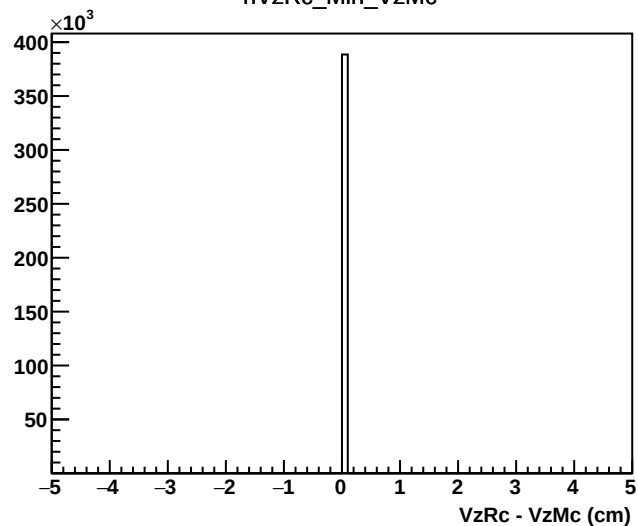
hVxMc_VyMc



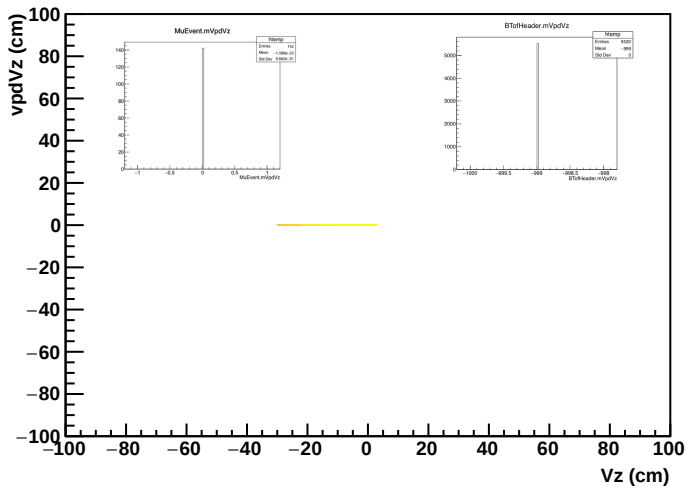
hVzMc



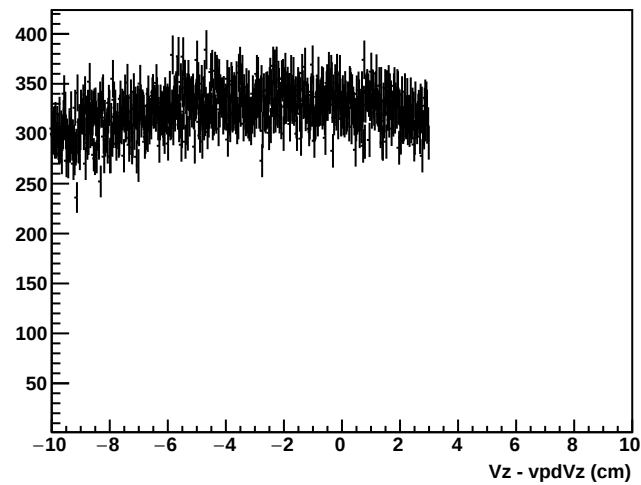
hVzRc_Min_VzMc



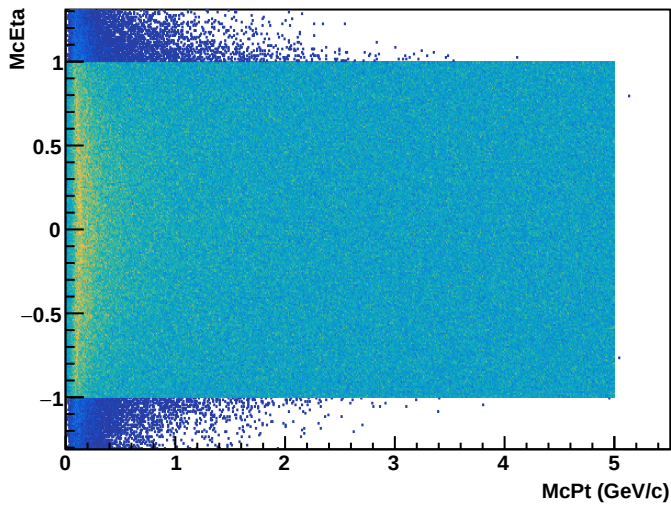
hVz_vpdVz



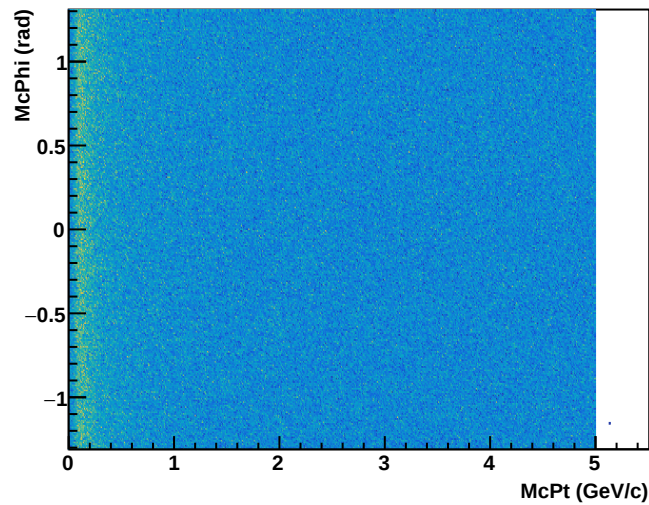
hVz_Min_vpdVz



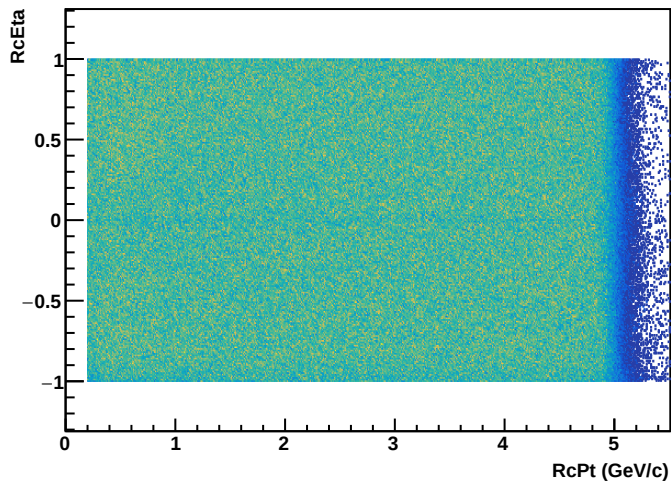
hMcPt_McEta



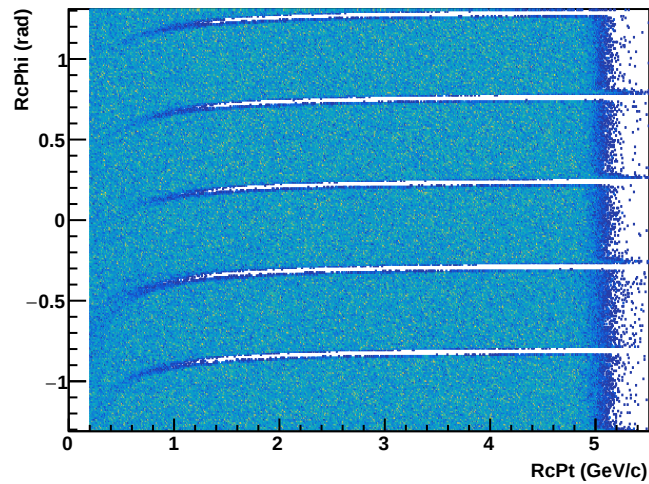
hMcPt_McPhi



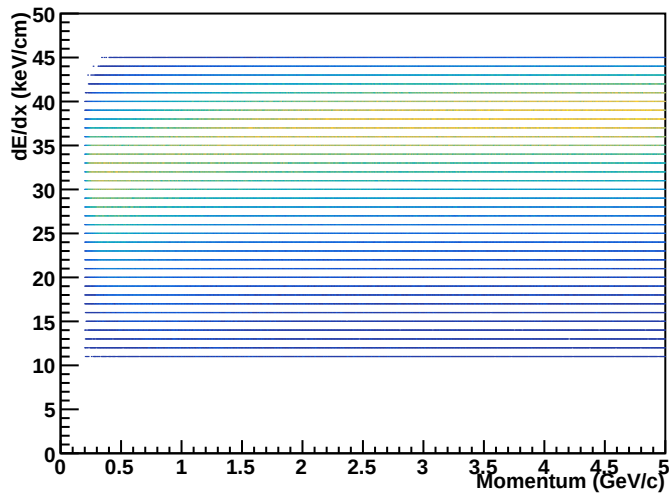
hRcPt_RcEta



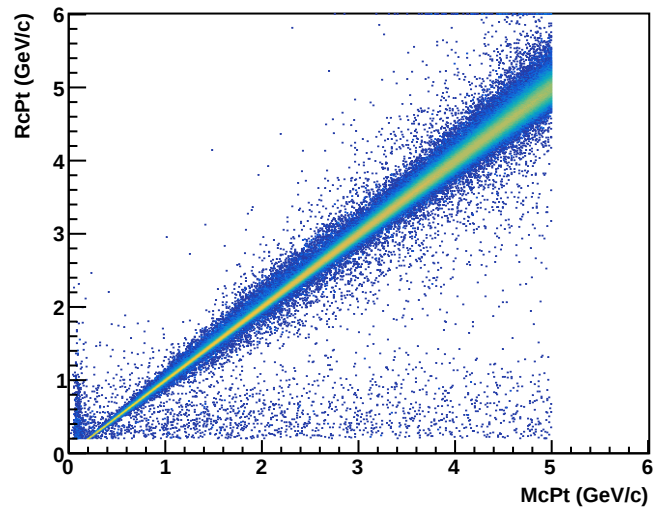
hRcPt_RcPhi



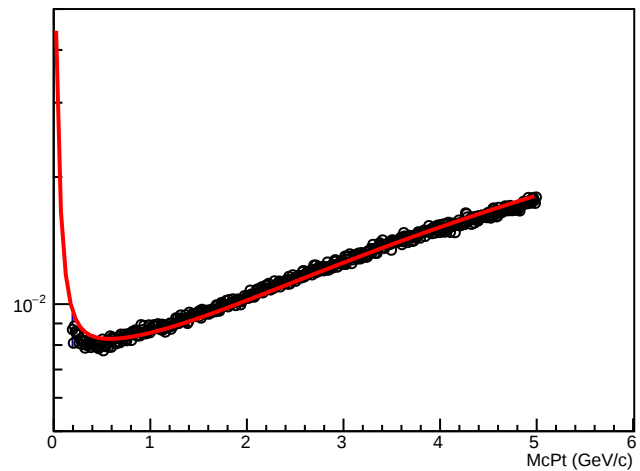
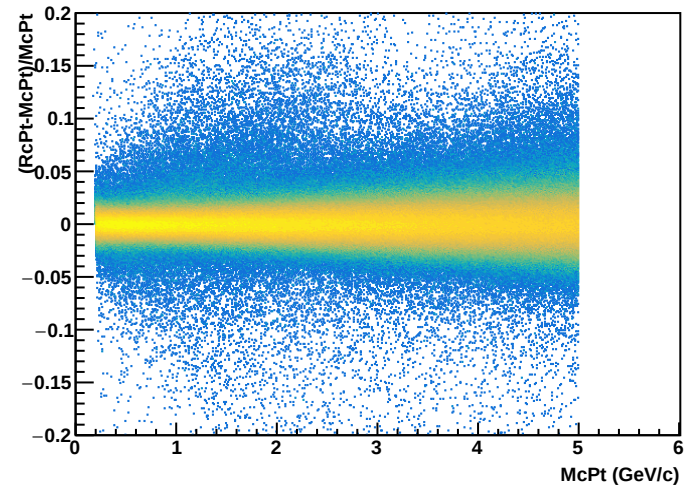
hRcMom_dEdx



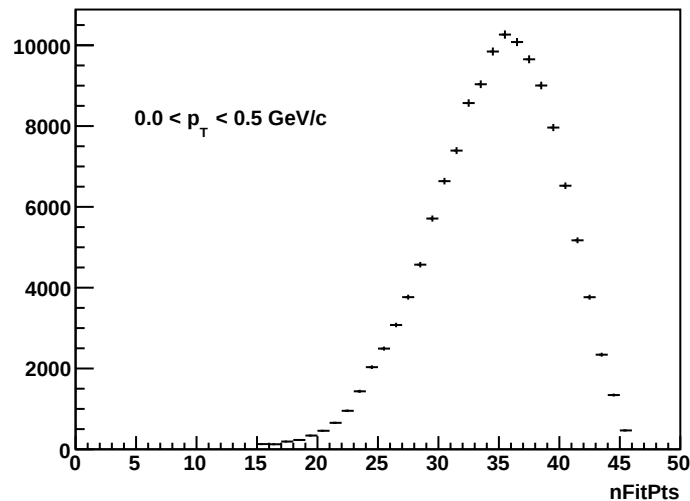
hMcPt_RcPt



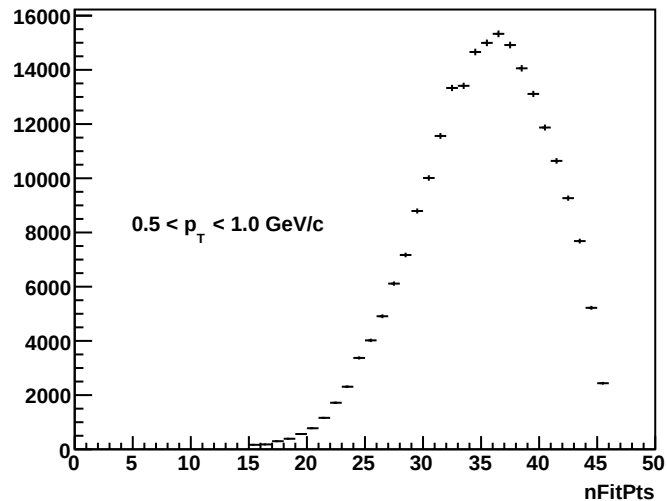
hMcPt_Reso



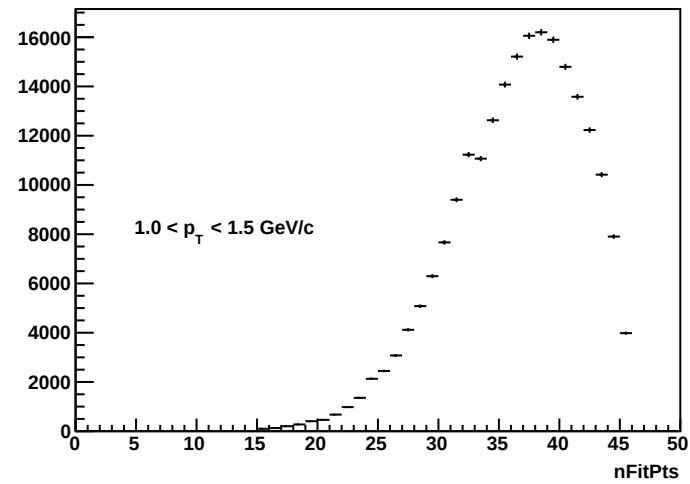
hnFitPts1



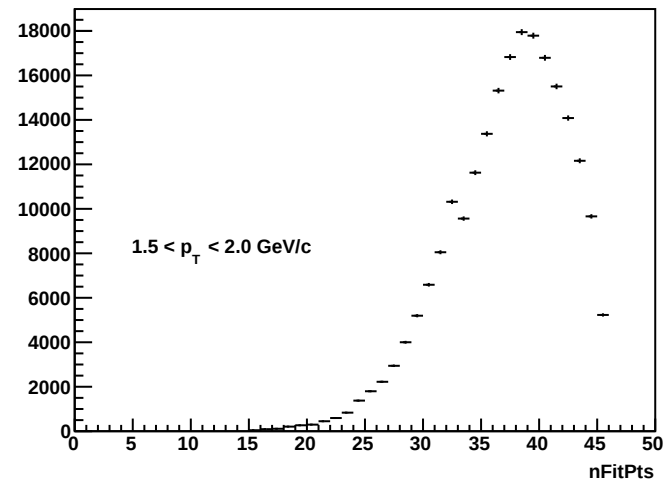
hnFitPts2



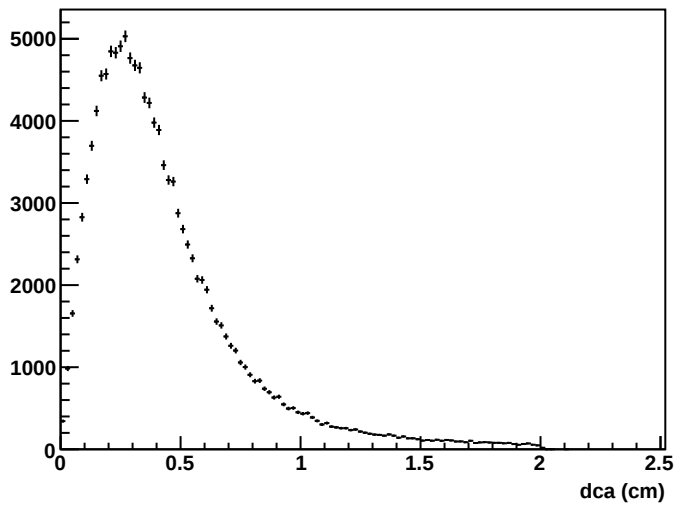
hnFitPts3



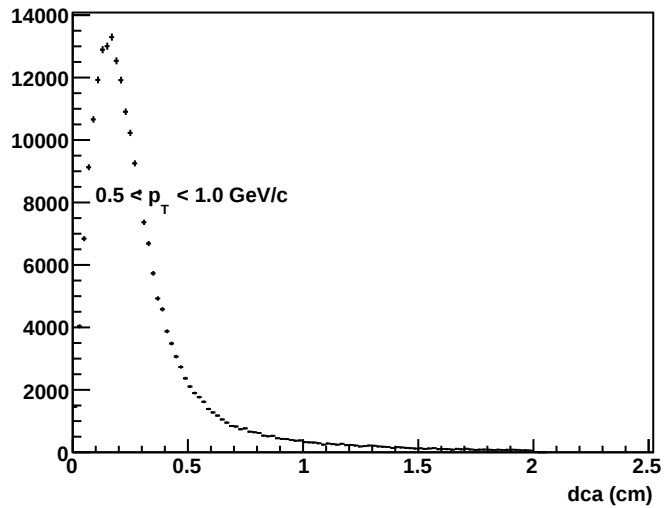
hnFitPts4



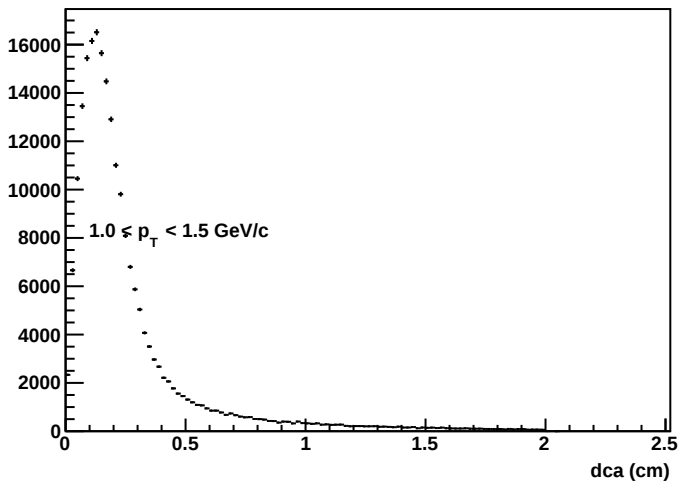
hdca1



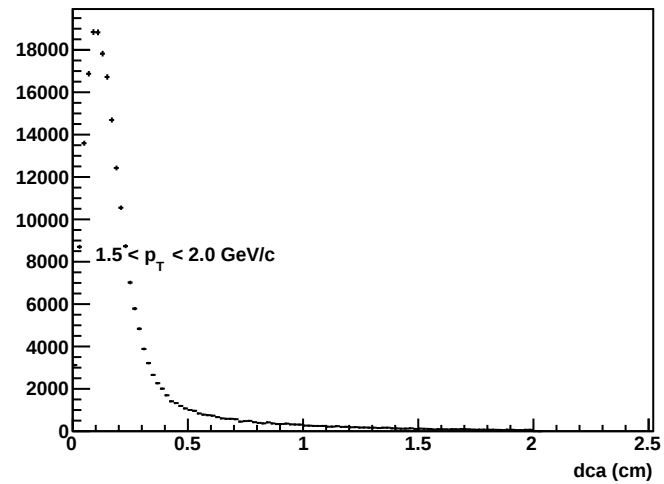
hdca2

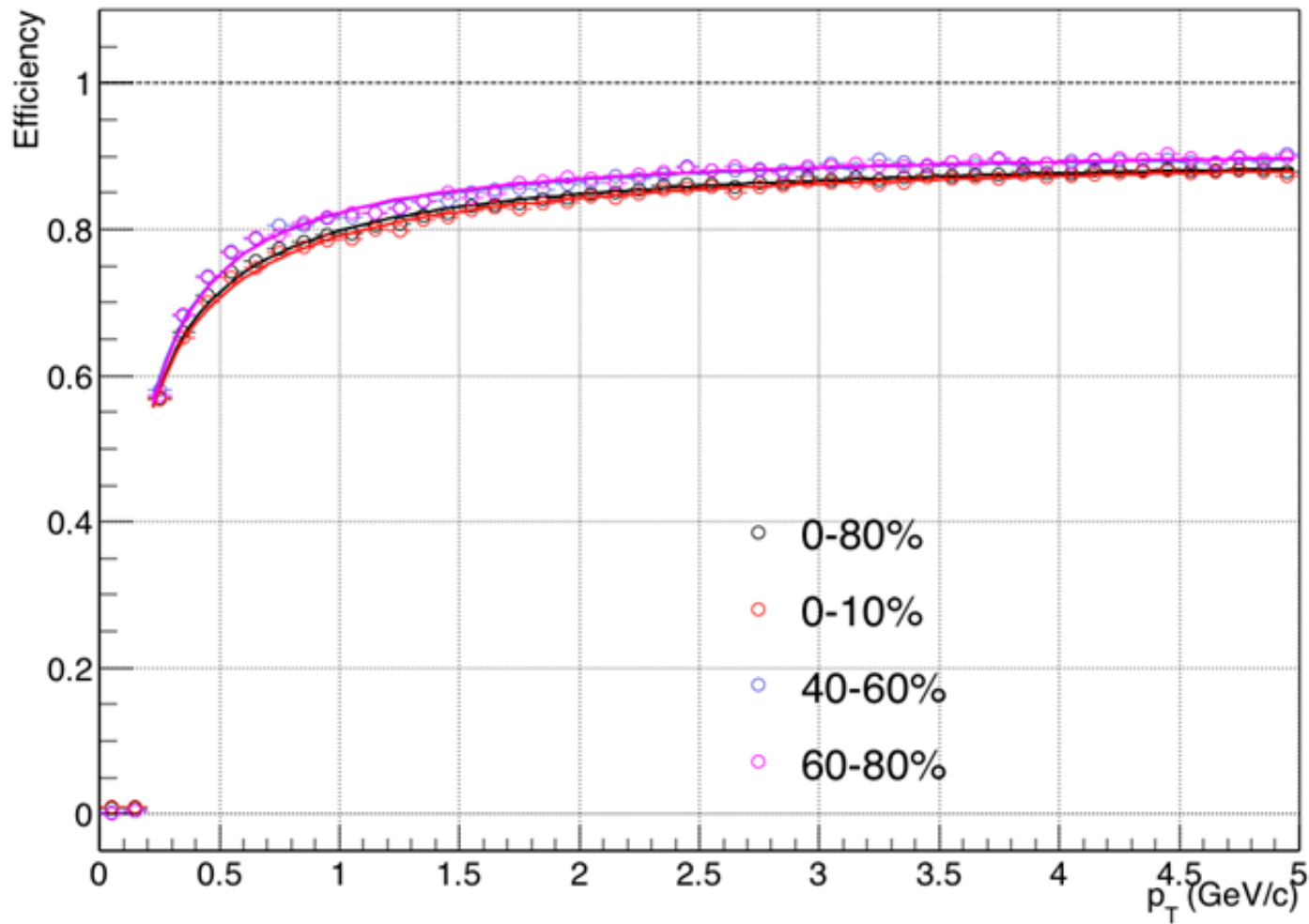


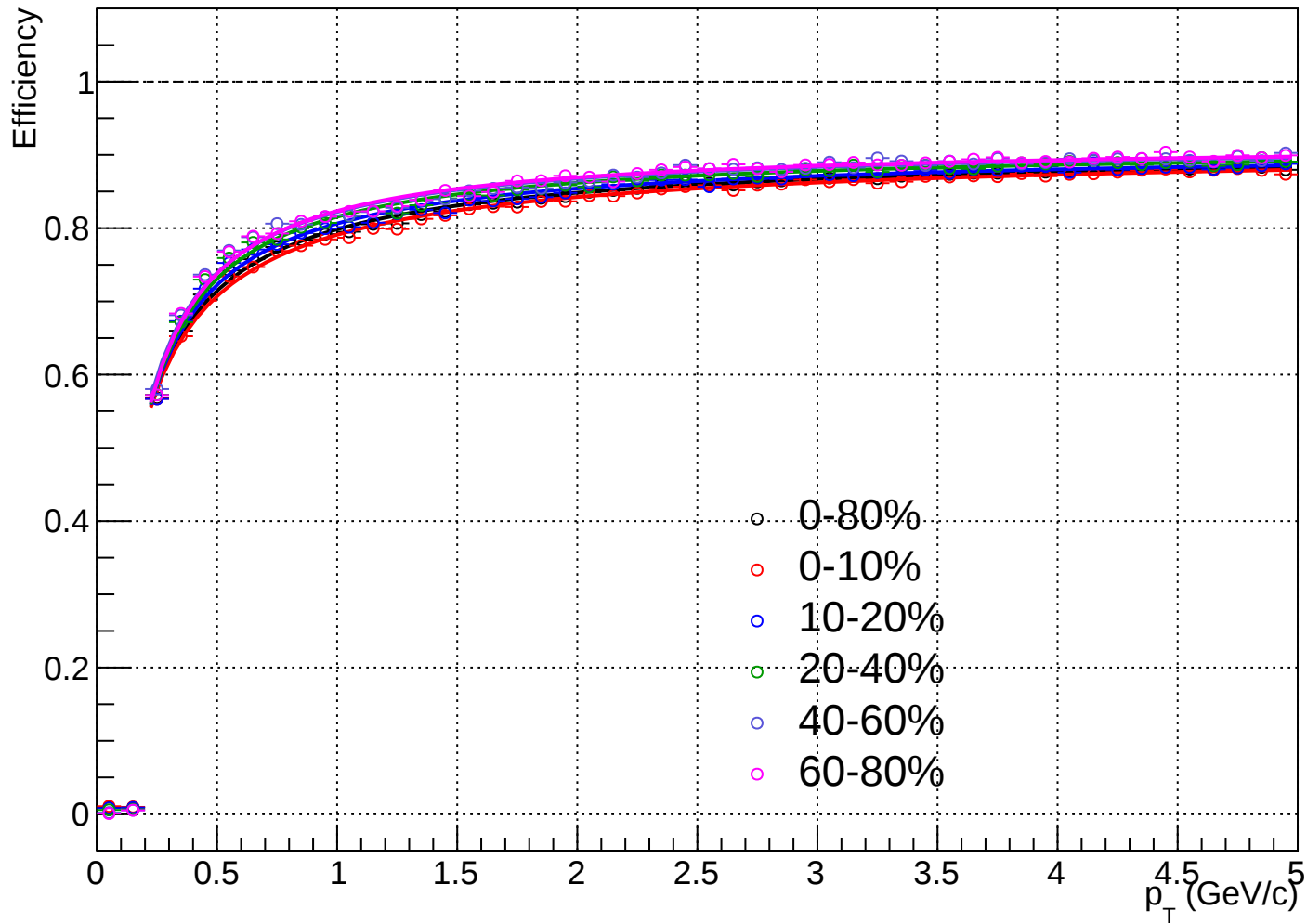
hdca3



hdca4







Glauber simulation for Isobar

$R=5.02$ fm $a=0.46$ fm $\sigma_{inel}^{NN}=42$ mb (200 GeV at STAR)

