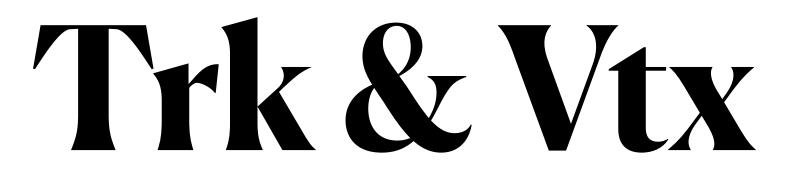
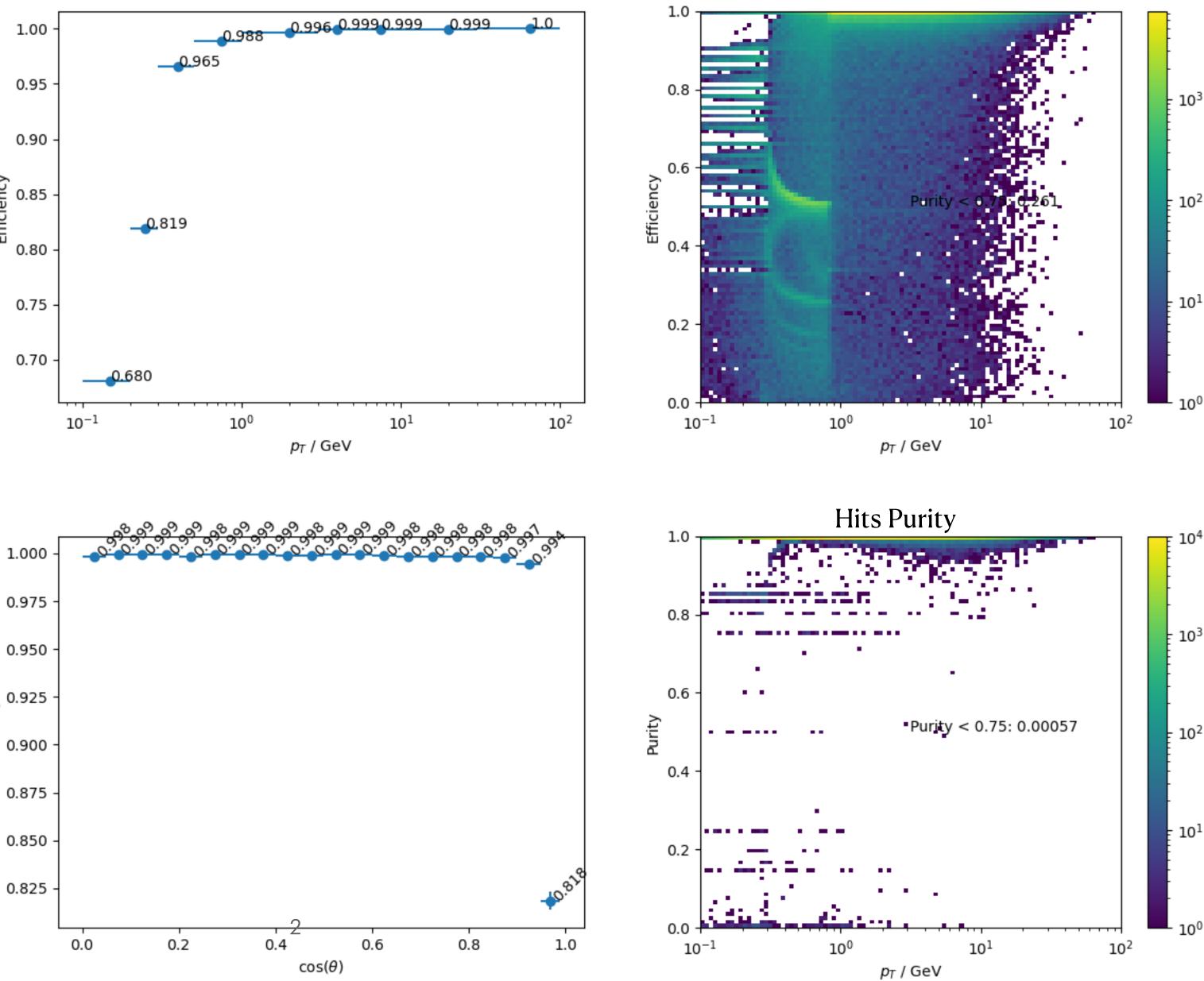
C.Zhang/21Feb2025

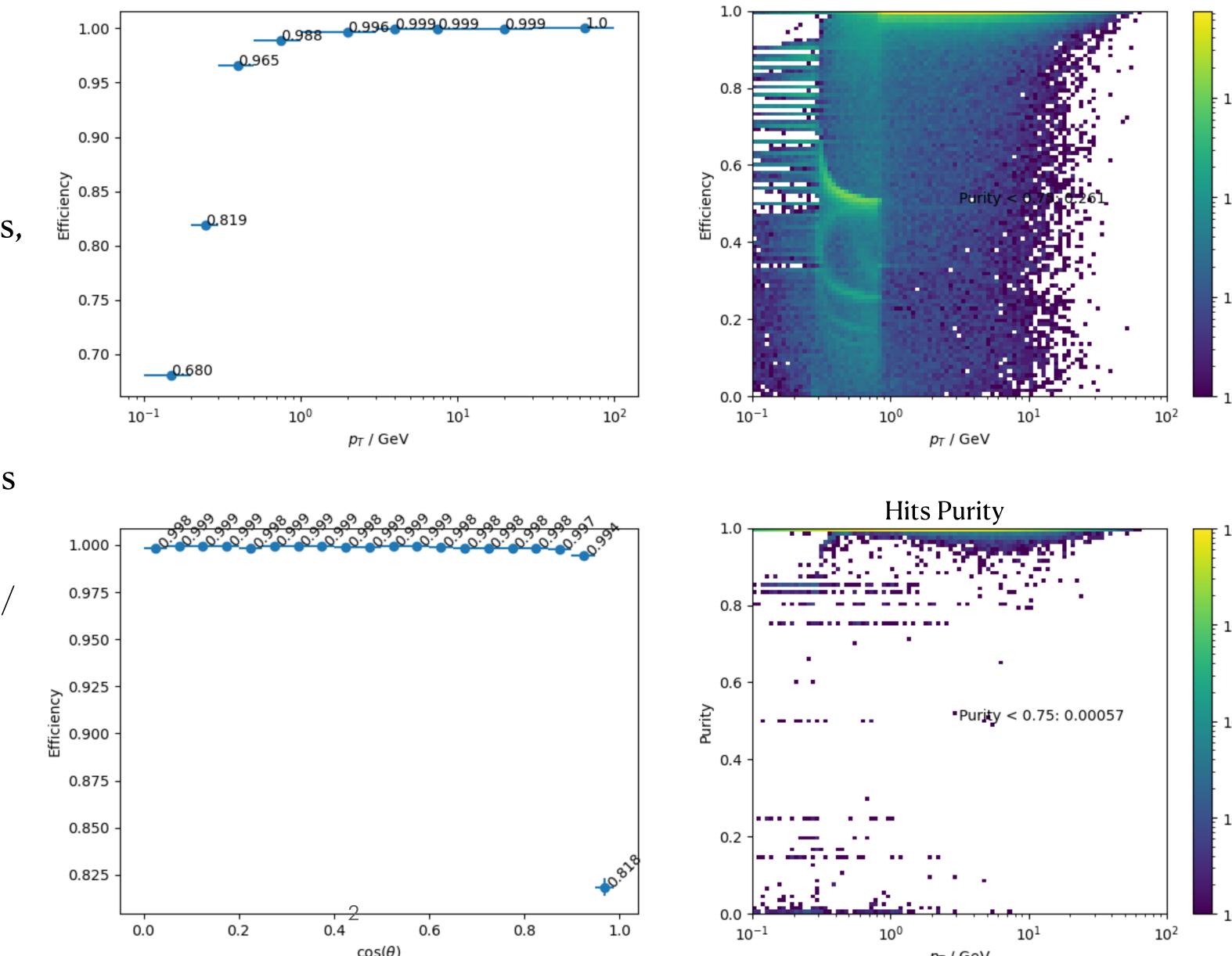


Tracking Efficiency

• SW.12.1.2 with eebb events

- weight : The number of hits shared between an MC particle and a reconstructed track (one track can share hits with multiple MC particles, with the one sharing the most hits being selected)
- track hits efficiency: weight/N-**MCHits**
- track hits purity: weight/N-TrackHits
- Track efficiency: Ntrk (purity > .75) / N-MC (charged, stable, costheta < 0.99, pT>100MeV)
- Error bar defined as Binomial $\int \epsilon (1-\epsilon)$ Uncertainty :





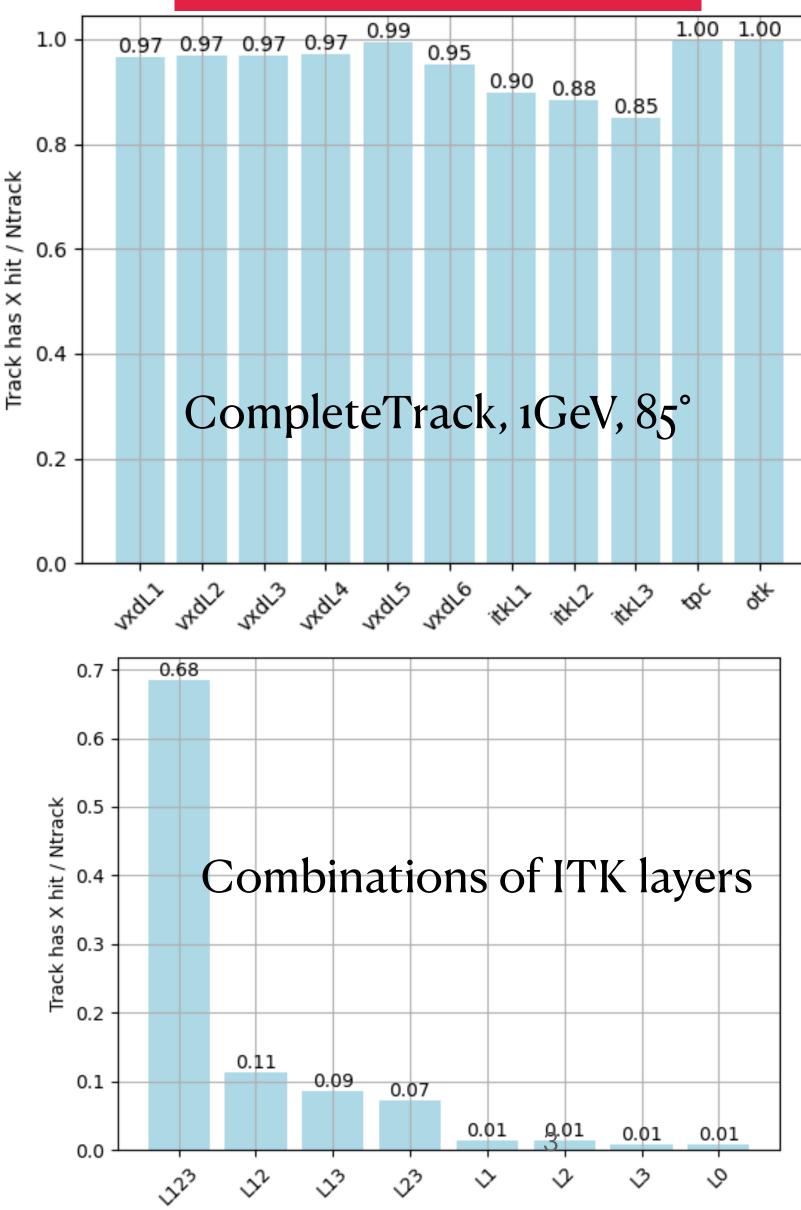
Hits Eff

= 10³ = 10² · 10¹ 104 - 10³ - 10²

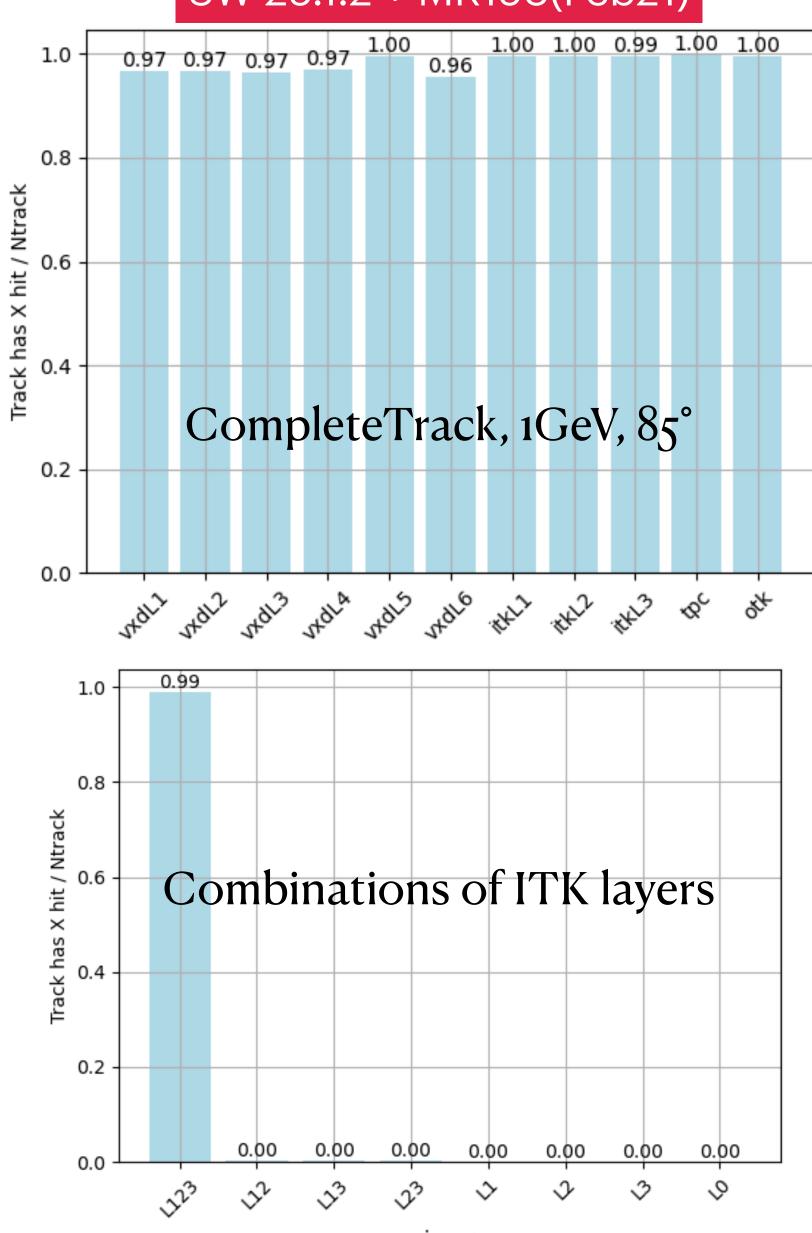
ITK Hit Efficiency with NEW MR198

SW 25.1.2 + MR198(Jan26)

• MR198 was updated last Friday by Chengdong Fu



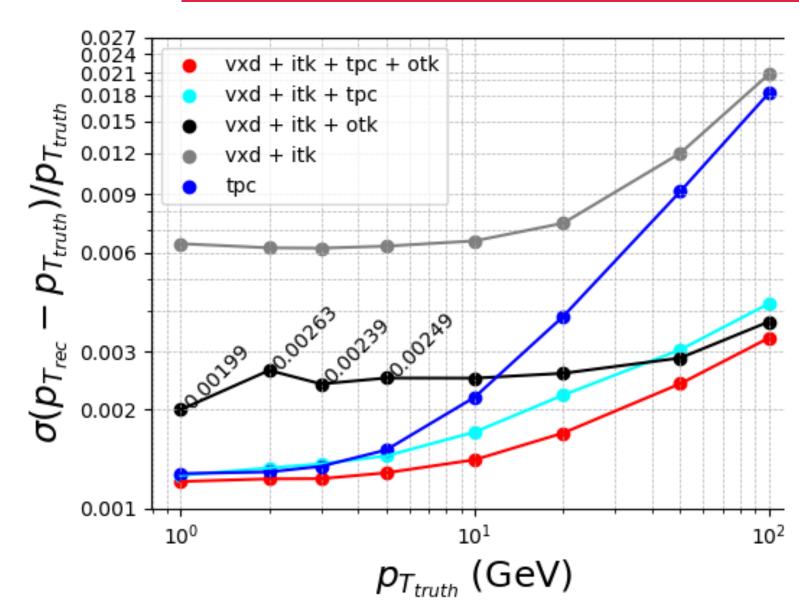
SW 25.1.2 + MR198(Feb21)

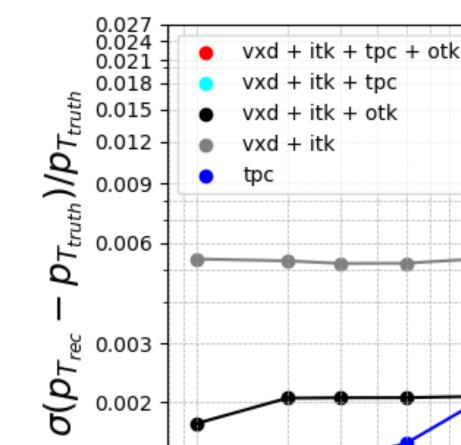


Tracking Resolution with New MR198

SW 25.1.2 + MR198(Jan26)

Gaussian fit 2 sigma sub-range



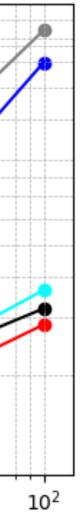


0.001

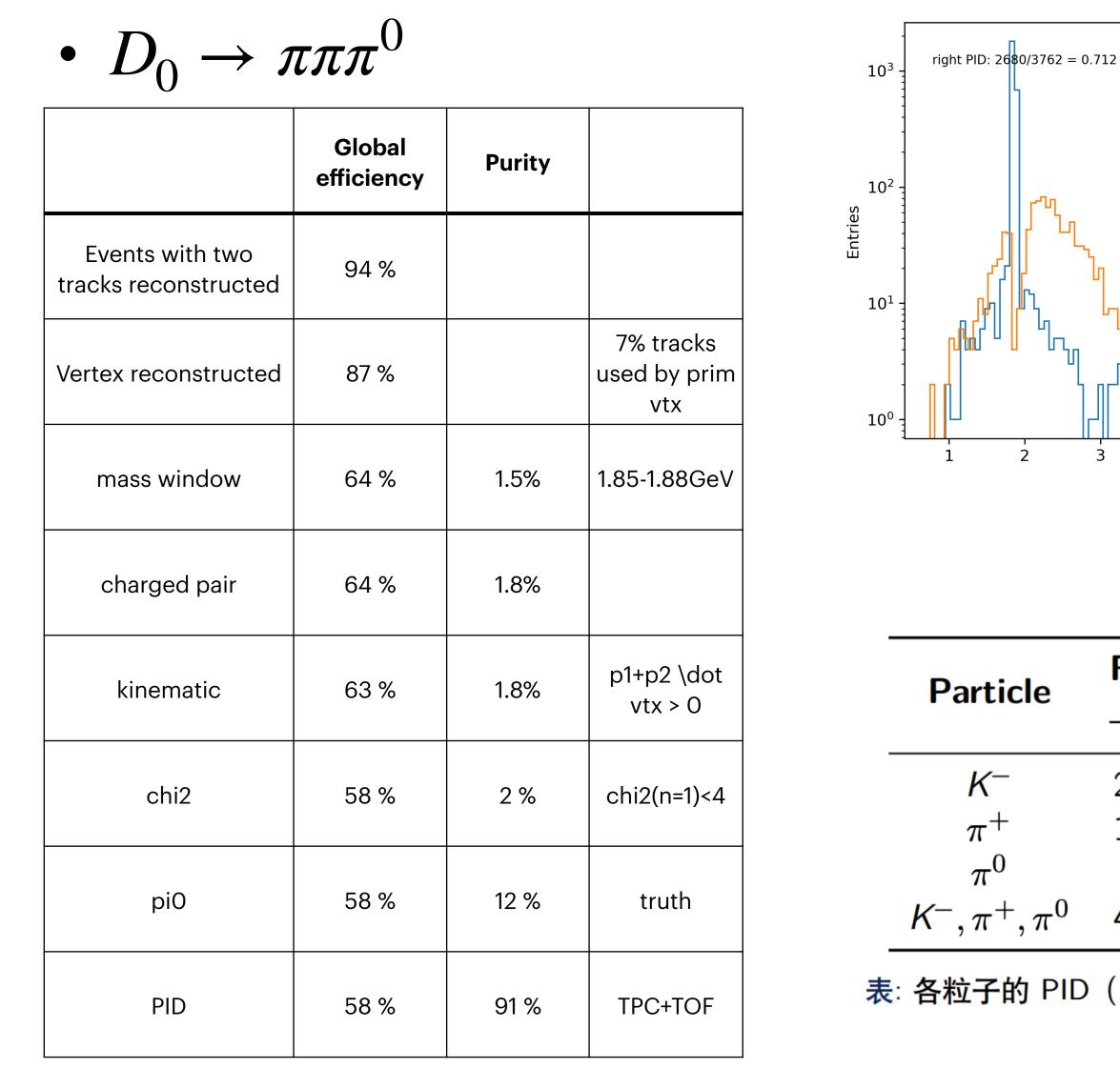
10⁰

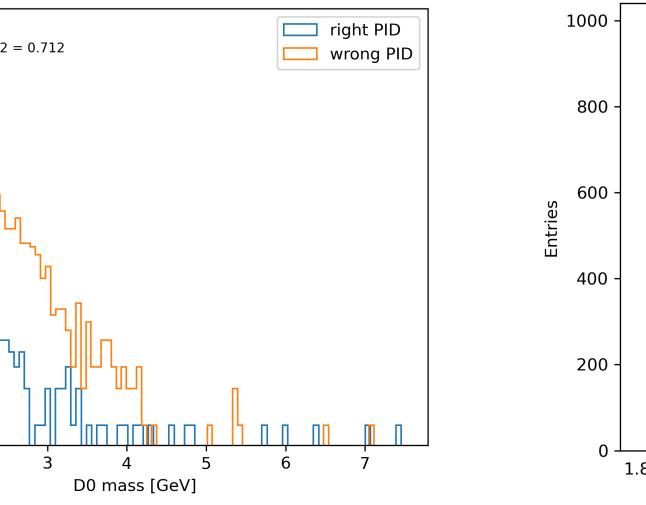
SW 25.1.2 + MR198(Feb21)

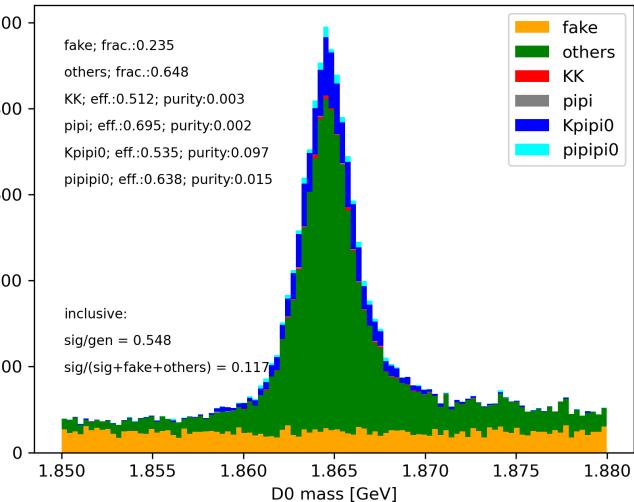
DSCB; Fullrange Gaussian fit 2 sigma sub-range 0.027 0.024 0.021 vxd + itk + tpc + otk vxd + itk + tpc 0.018 *p*_{Truth})/*p*_{Truth} .0 00 0 .0 00 0 .0 00 0 vxd + itk + otk vxd + itk tpc α(b_Trec 0.001 10¹ 100 10¹ 10 $p_{T_{truth}}$ (GeV) $p_{T_{truth}}$ (GeV)



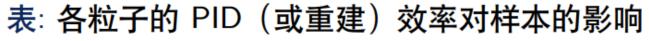
D_0 reconstruction

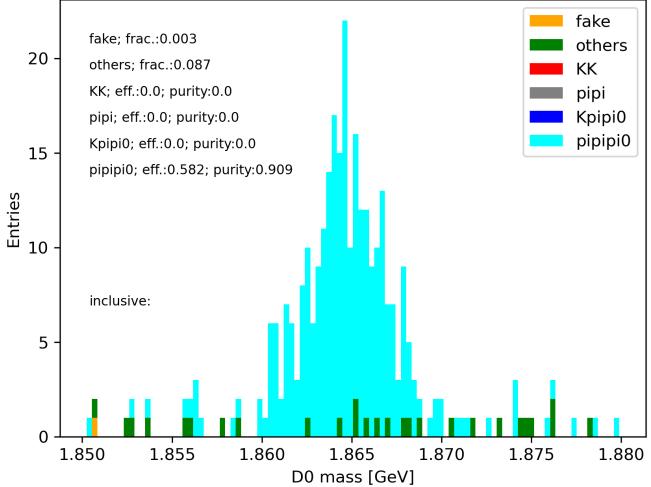






Removed ratio (%)	
	ITKTOF
27.4	27.2
13.1	13.0
18.0	
48.1	48.3
D (武舌)	为家对样本的影响

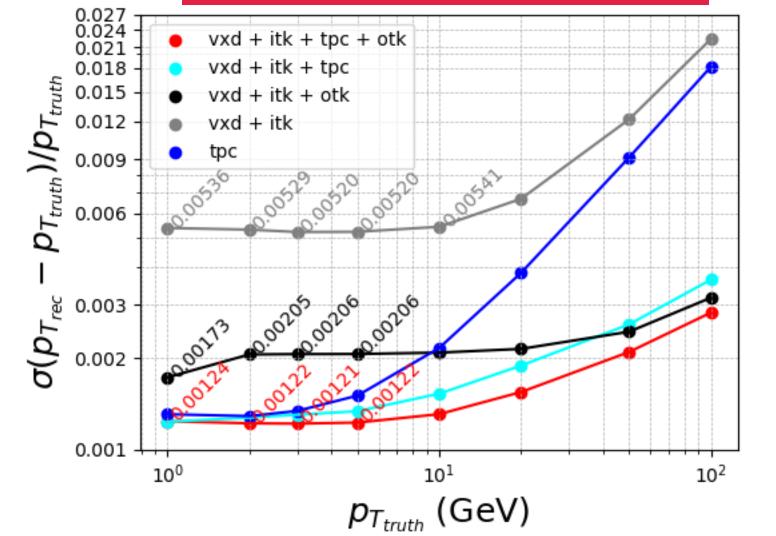


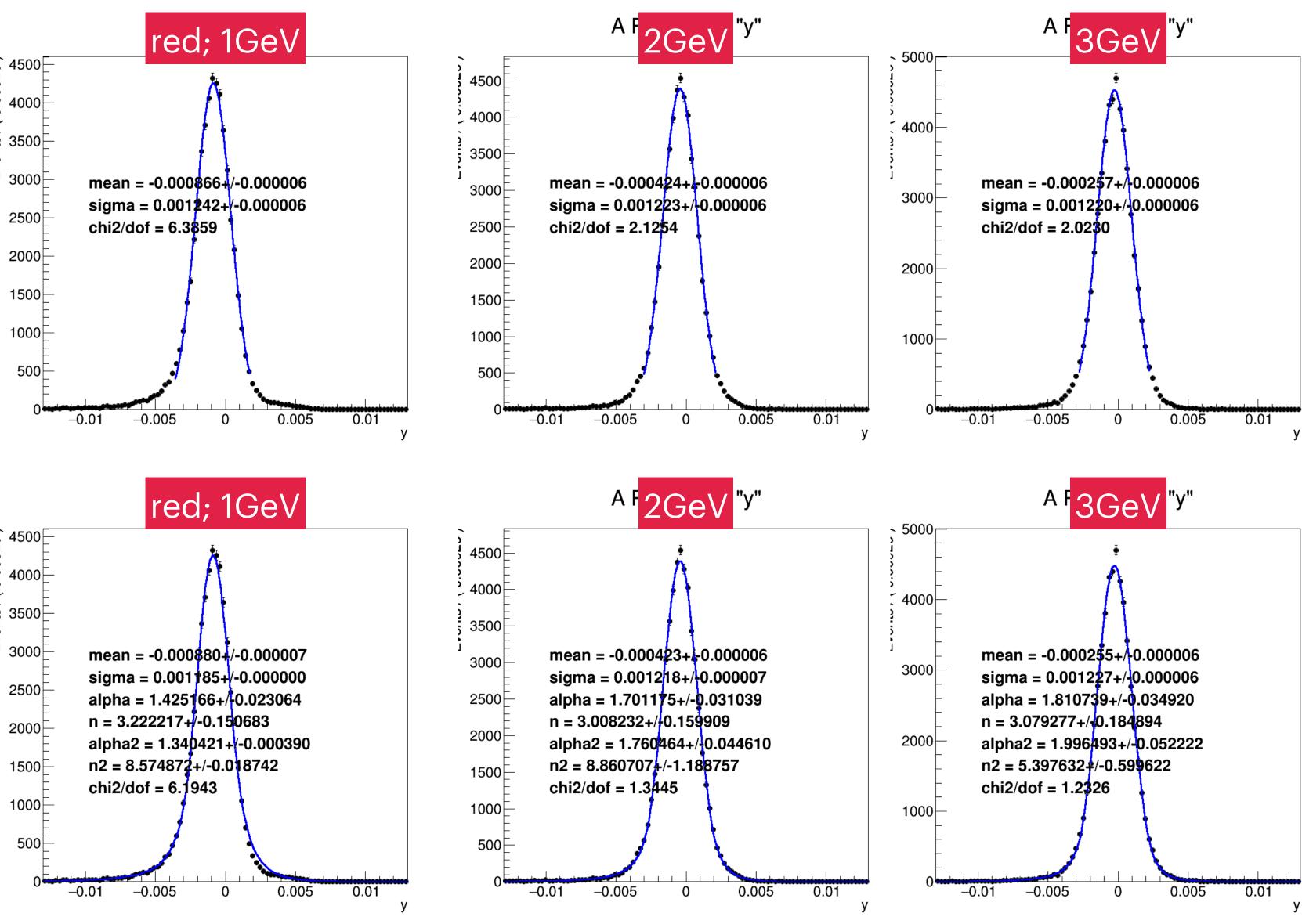


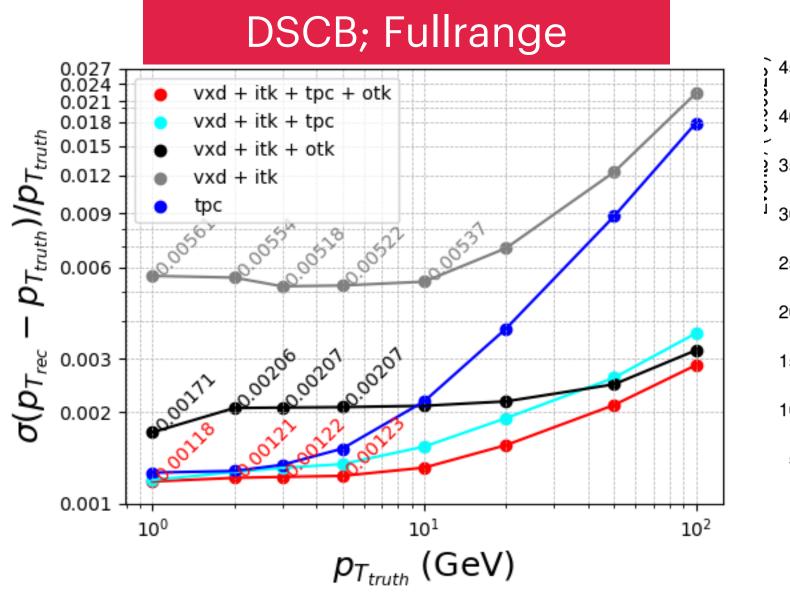
• back up

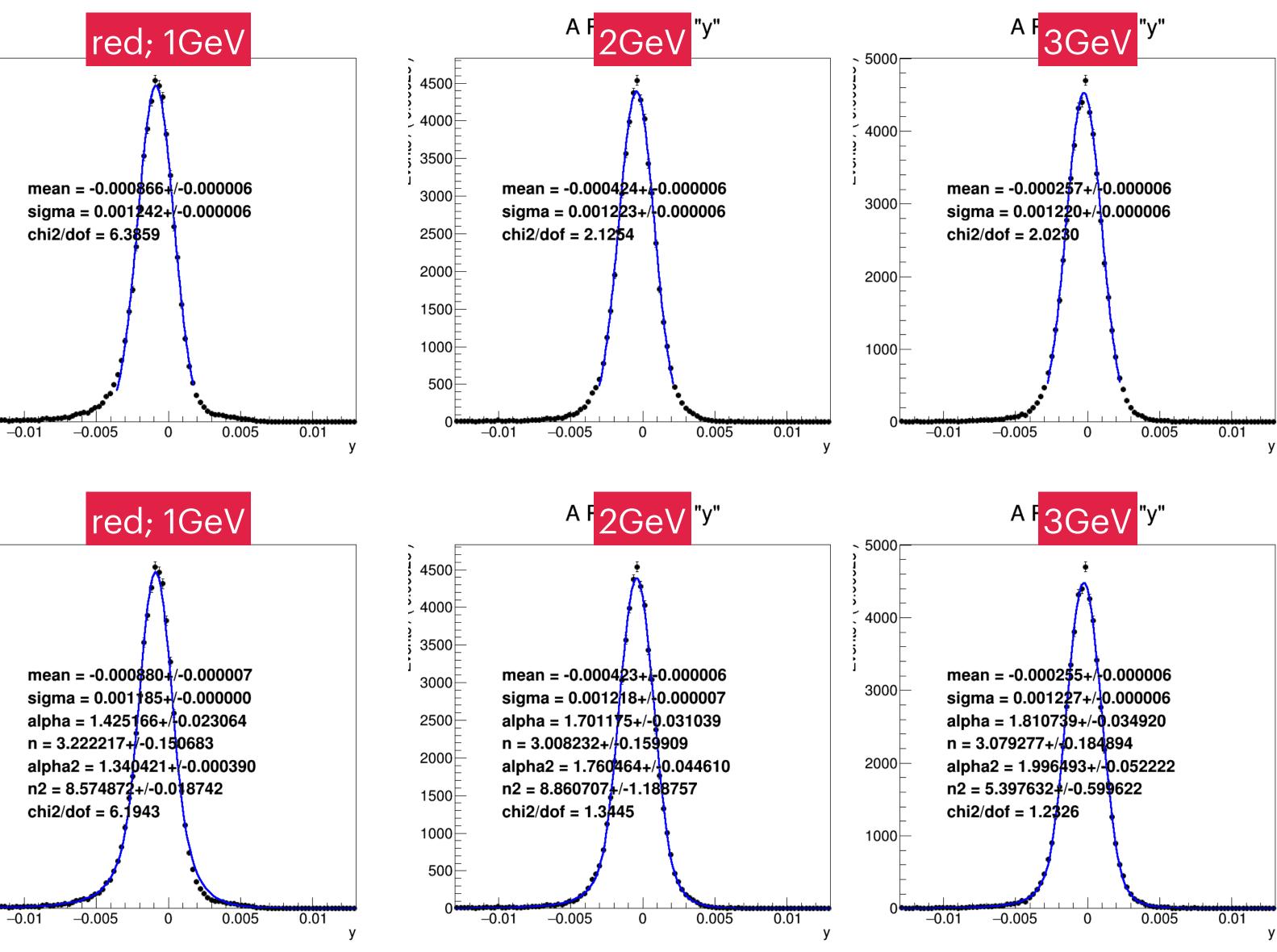
Tracking Resolution with New MR198





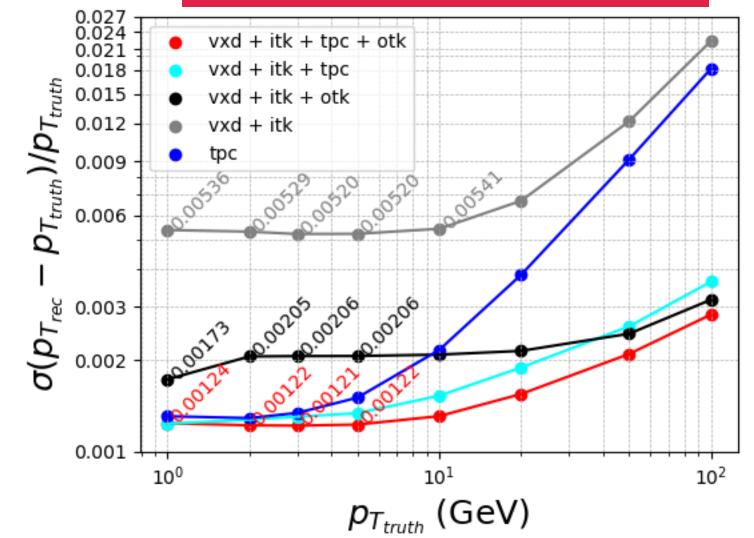


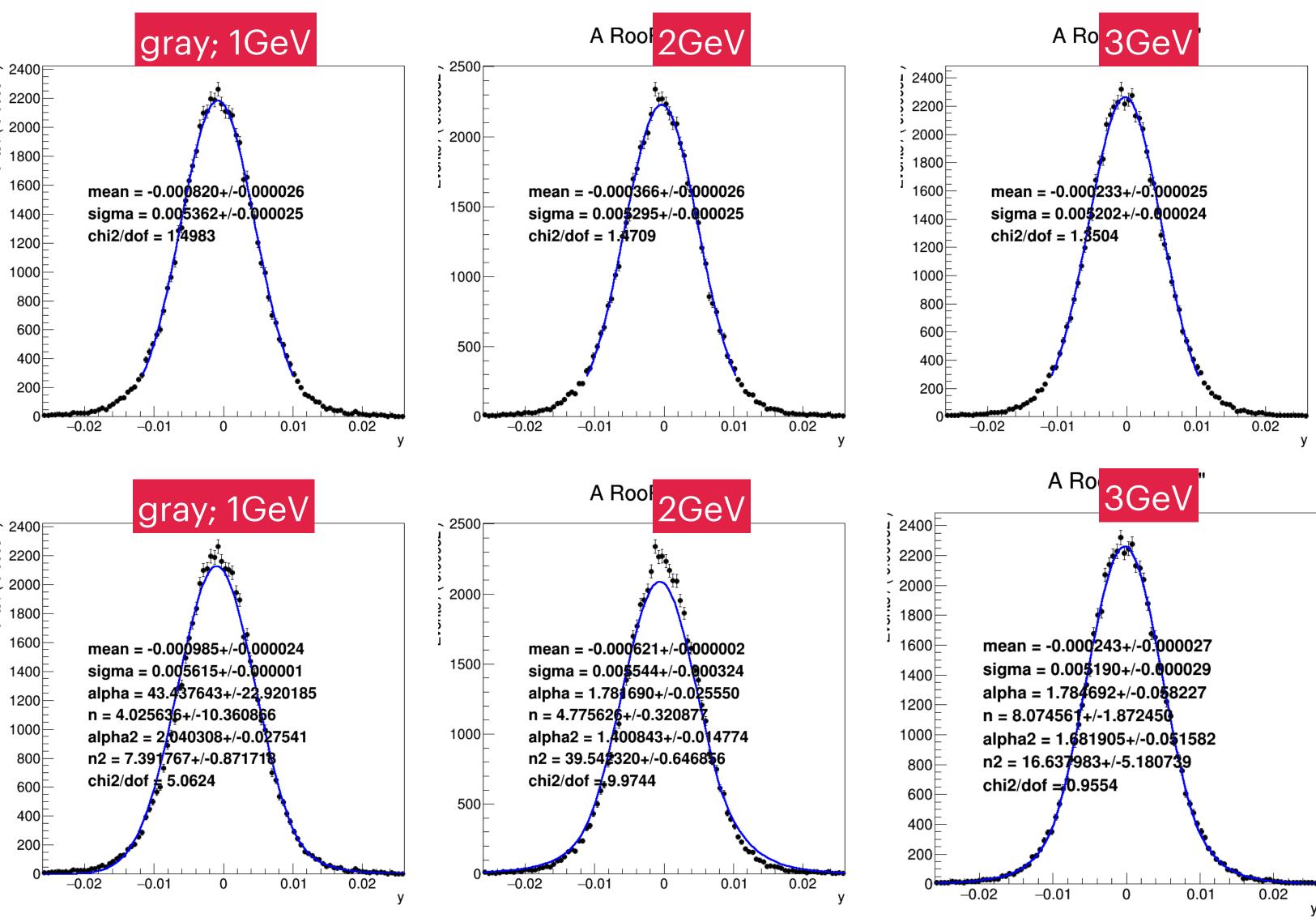


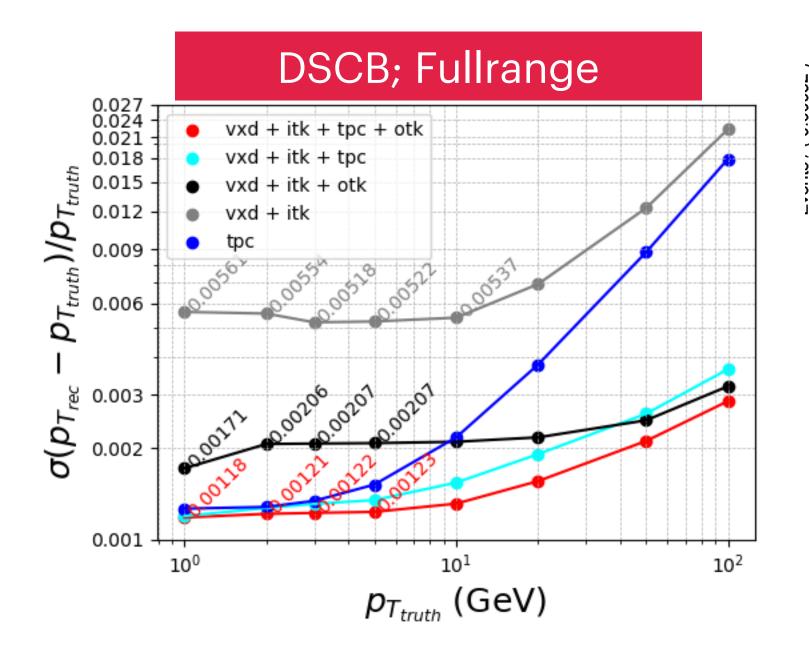


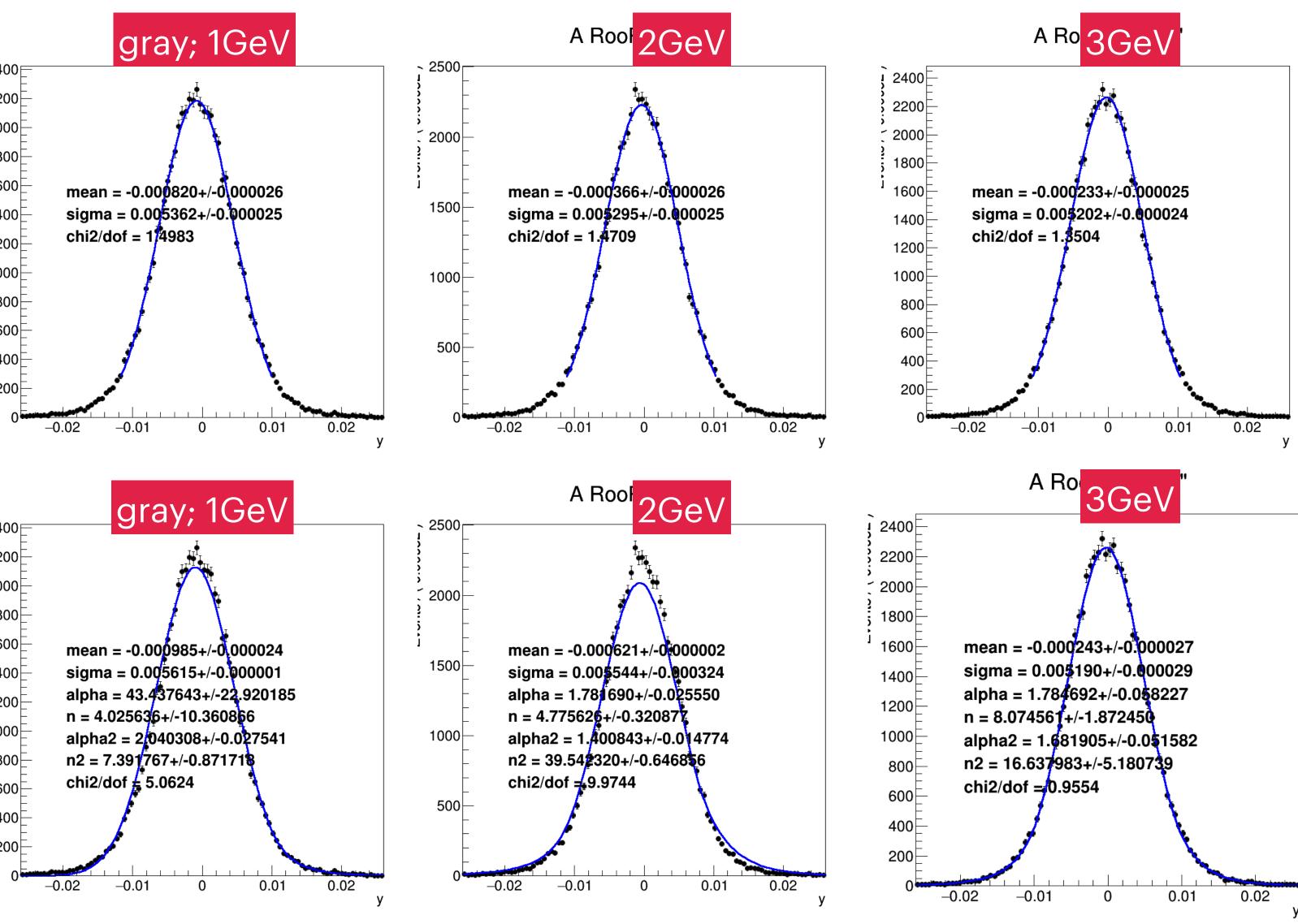
Tracking Resolution with New MR198

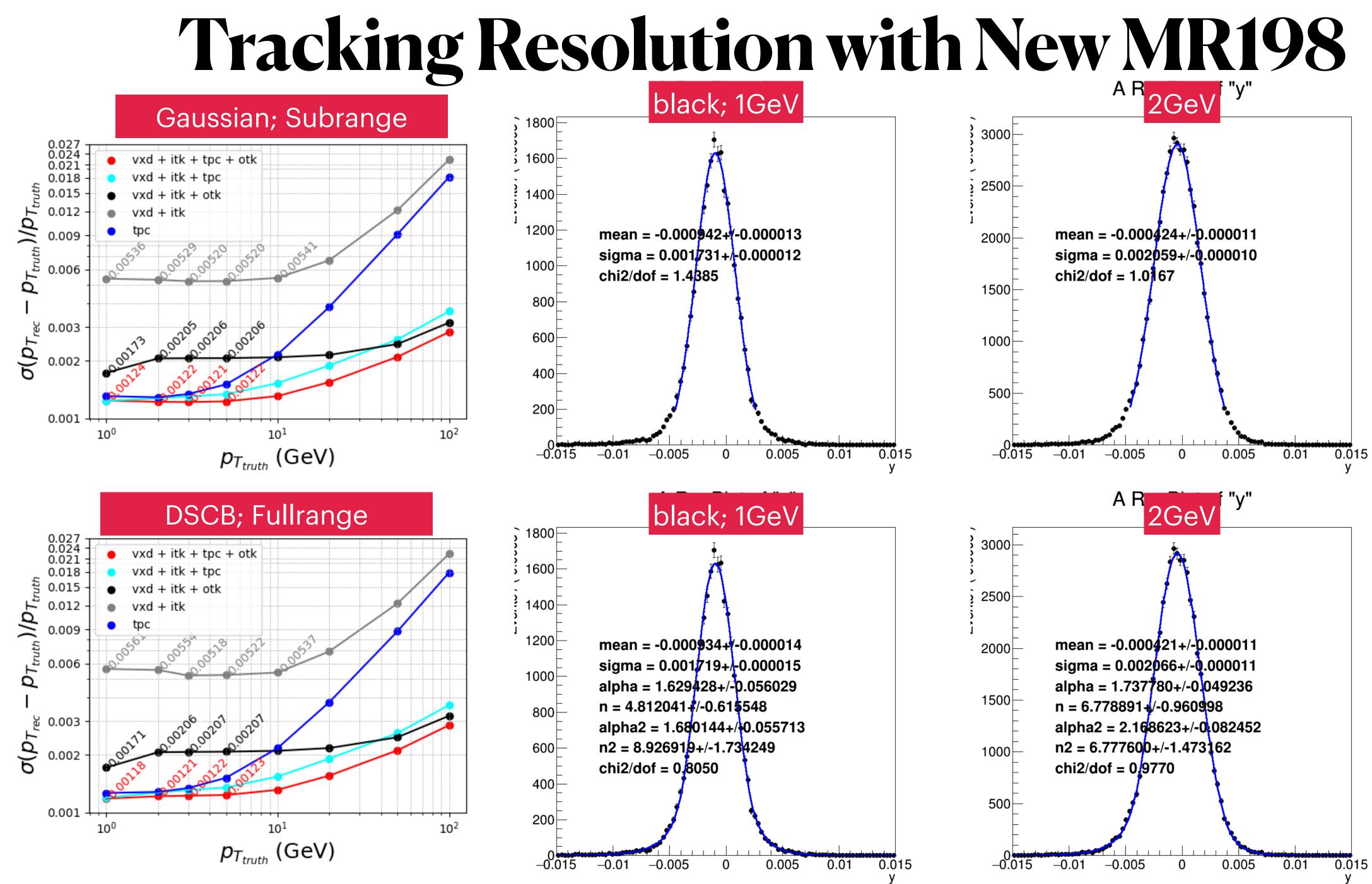
Gaussian; Subrange

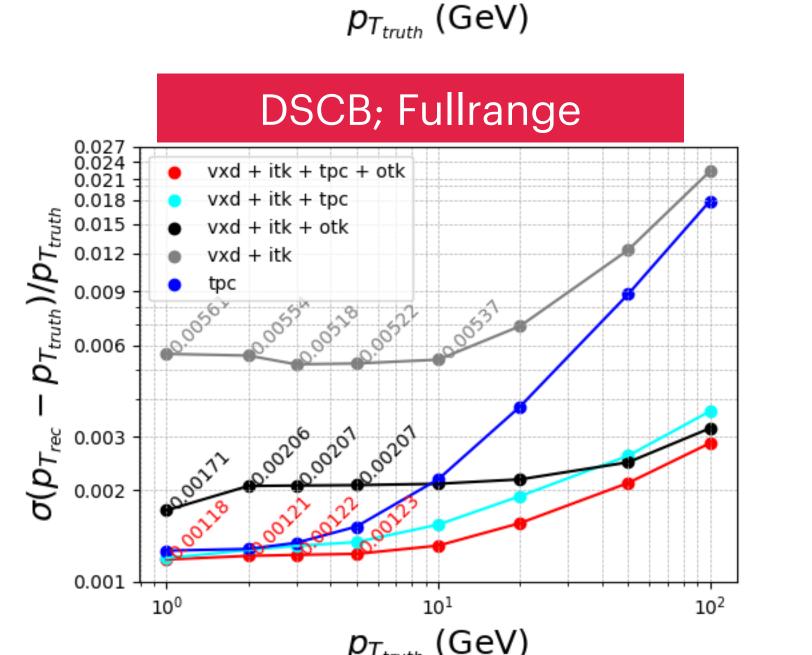












 $p_{T_{truth}})/p_{T_{truth}}$

