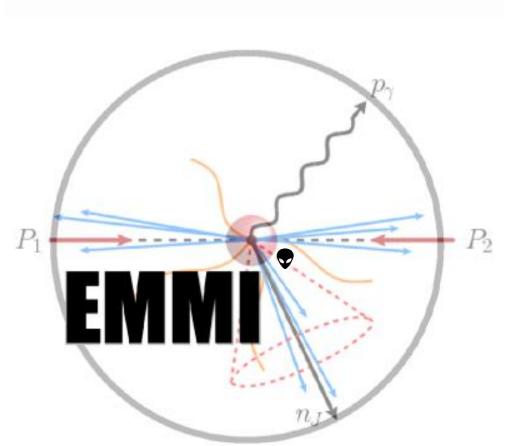
Status Report



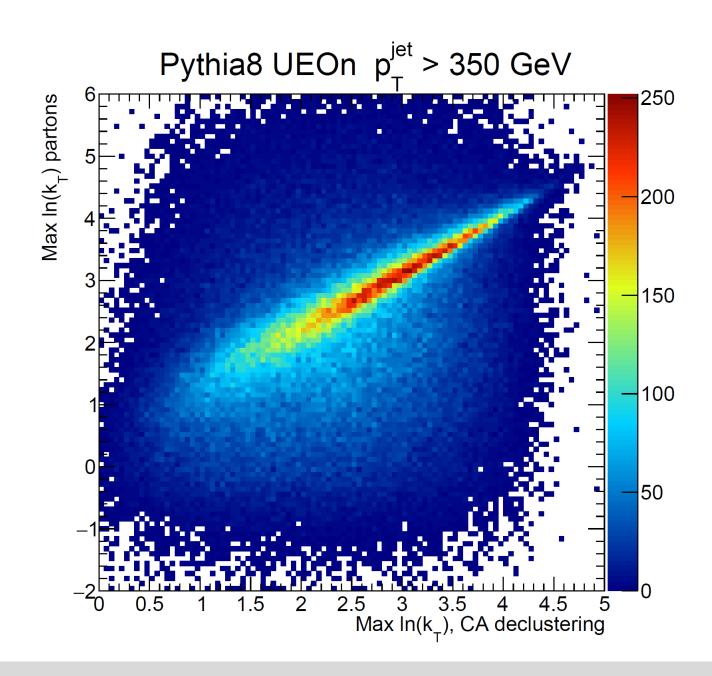


Let's go Lunni!





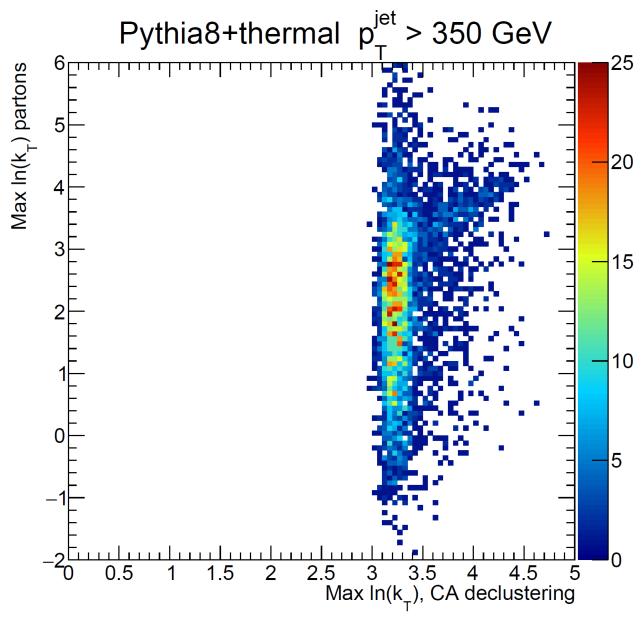
Jet (CA) PYTHIA8 pThat300







Without background sub

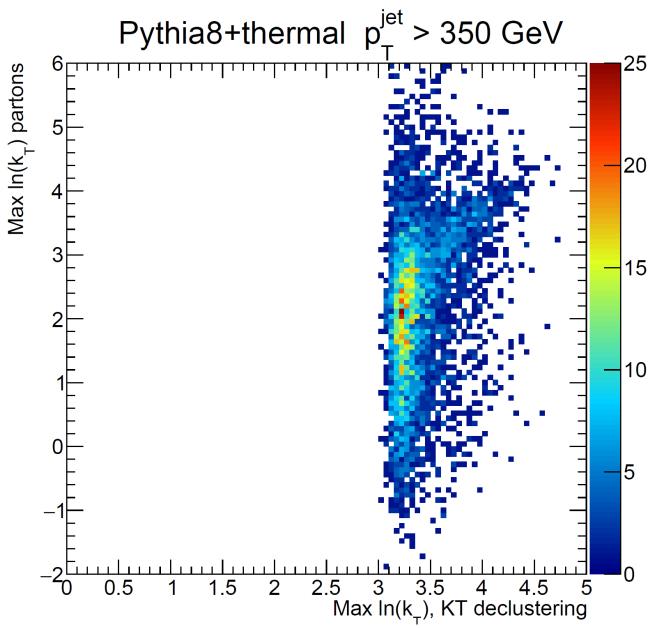






Jet (KT) PYTHIA+Termal Background (PbPb 5 TeV 0-10%)

Without background sub

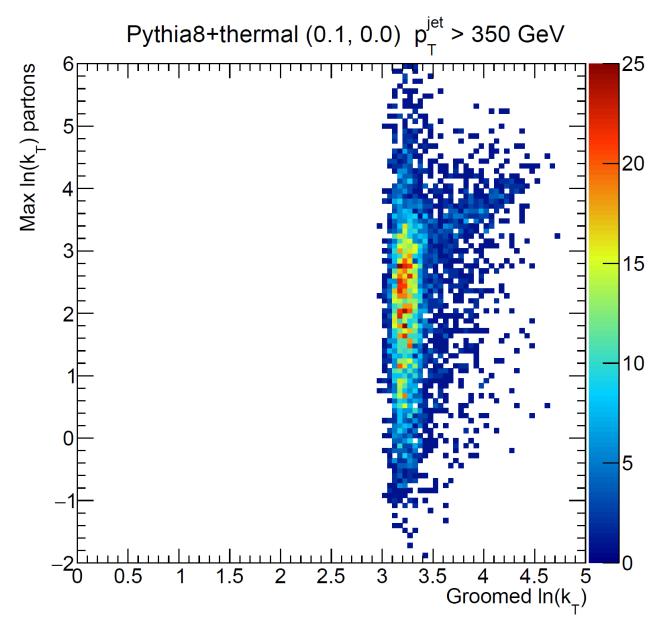






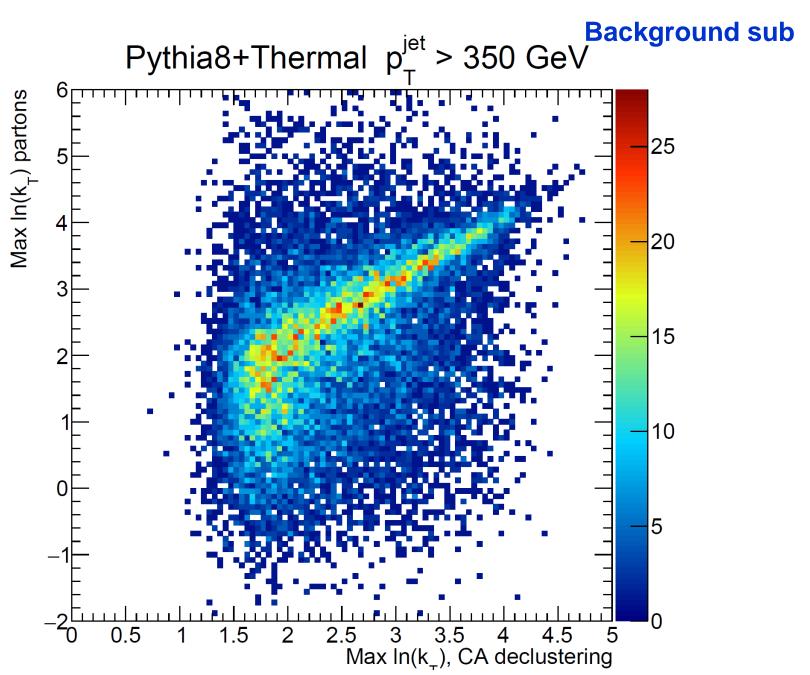
Zcut (0.1,0)

Without background sub





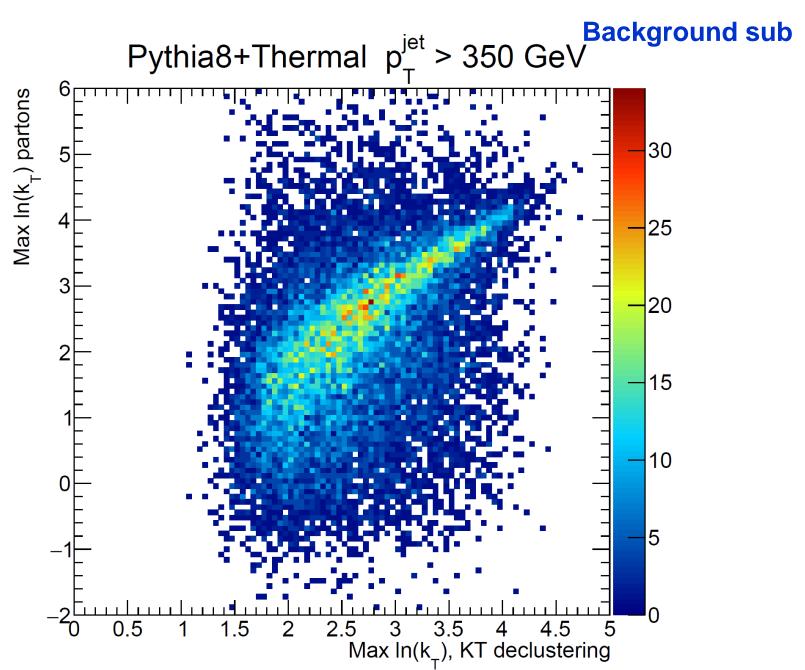






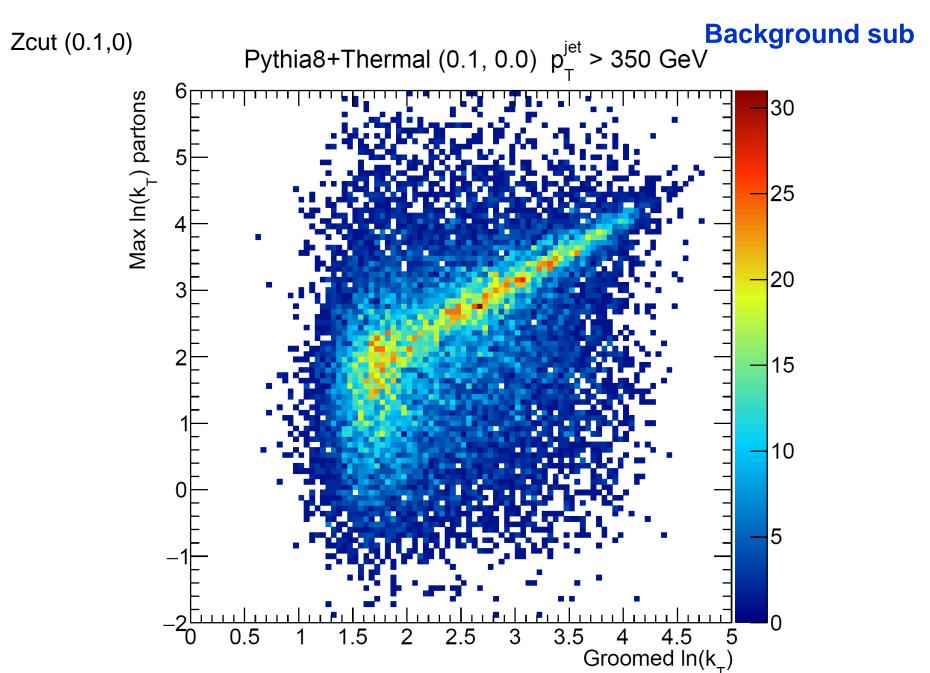


Jet (KT) PYTHIA+Termal Background (PbPb 5 TeV 0-10%)



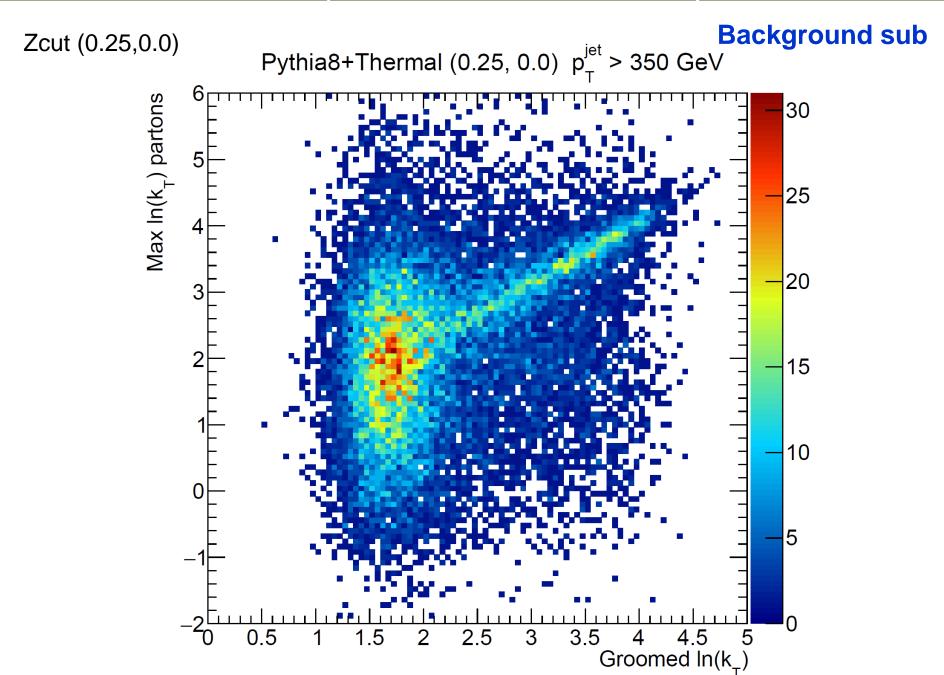
















Background sub Zcut (0.5,1.5) Pythia8+Thermal (0.5, 1.5) $p_{\tau}^{jet} > 350 \text{ GeV}$ 24 $\operatorname{Max} \operatorname{In}(k_T)$ partons 22 20 18 16 14 12 10 8 6 4 2.5 3.5 4.5 3 Groomed In(k_)





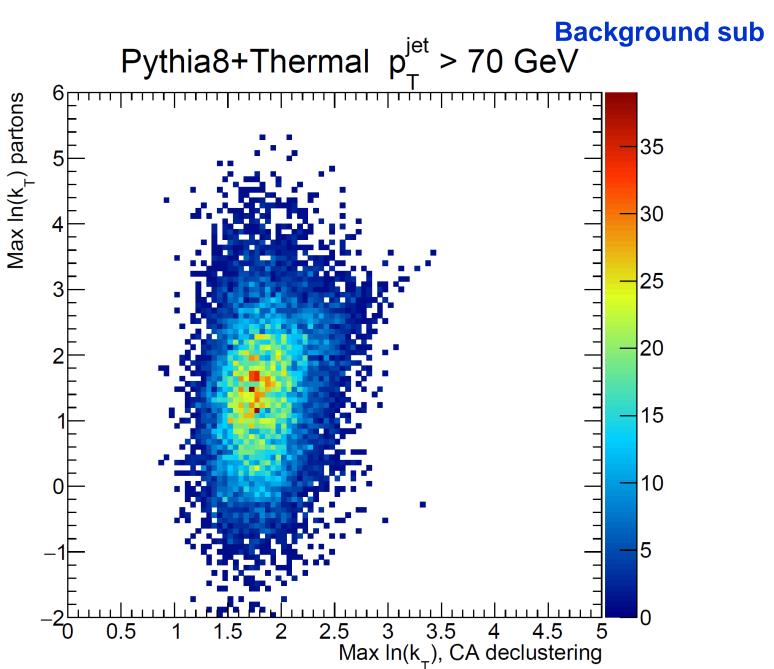
Low pT Jet in thermal background







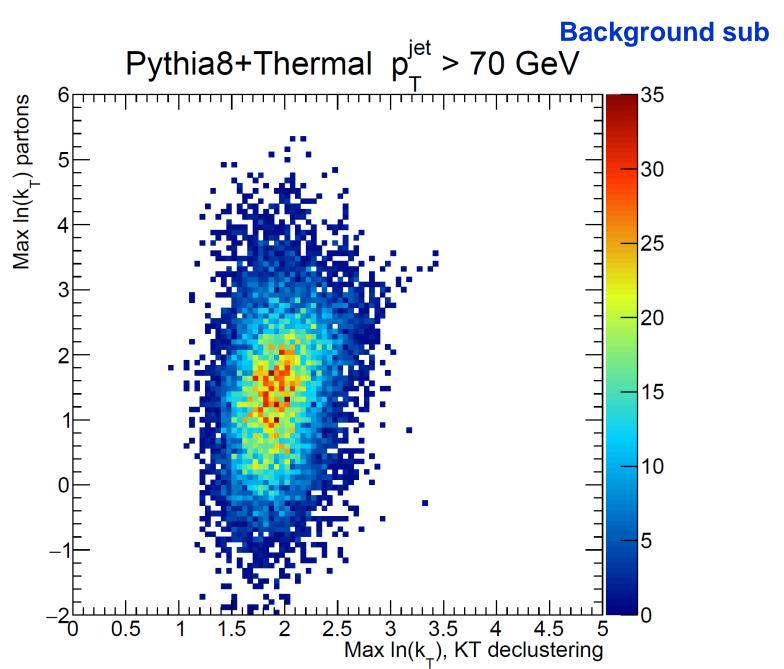
Jet (CA) PYTHIA+Termal Background (PbPb 5 TeV 0-10%) Low pT jet







Jet (KT) PYTHIA+Termal Background (PbPb 5 TeV 0-10%) Low pT Jet







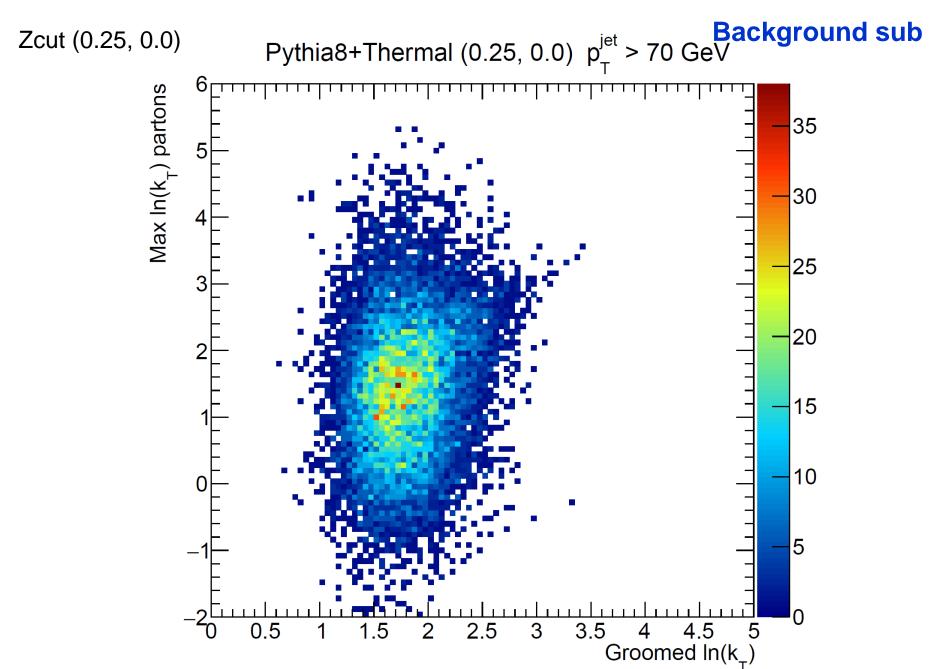
nd sub Zcut (0.1,0) Pythia8+Thermal (0.1, 0.0) $p_{_{T}}^{jet} > 70 \text{ GeV}$ Max In(k_T) partons 30 25 20 15 10 5 2.5 4.5 0.5 3 3.5





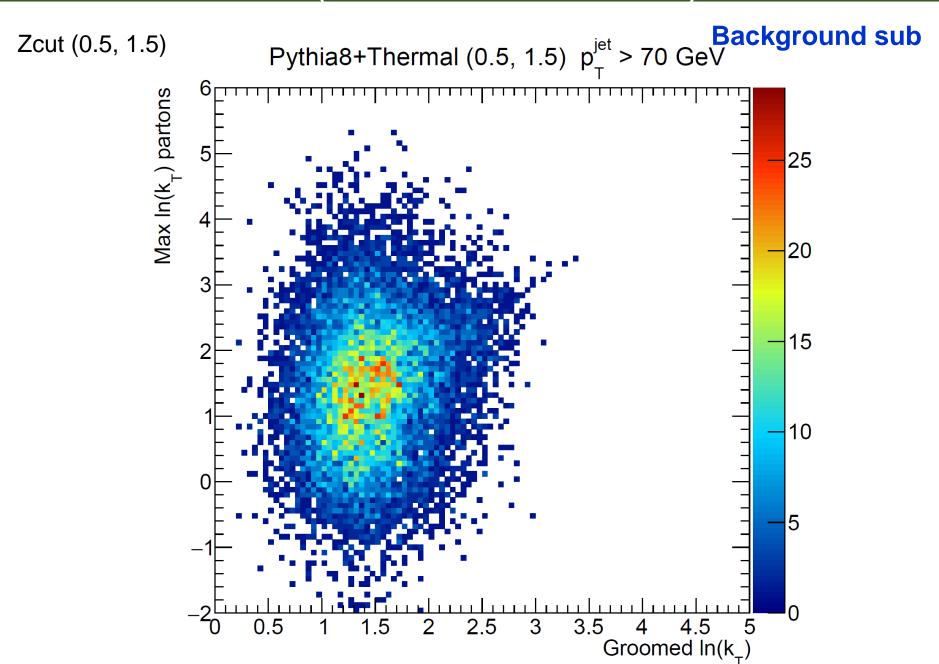
14

Groomed In(k_)











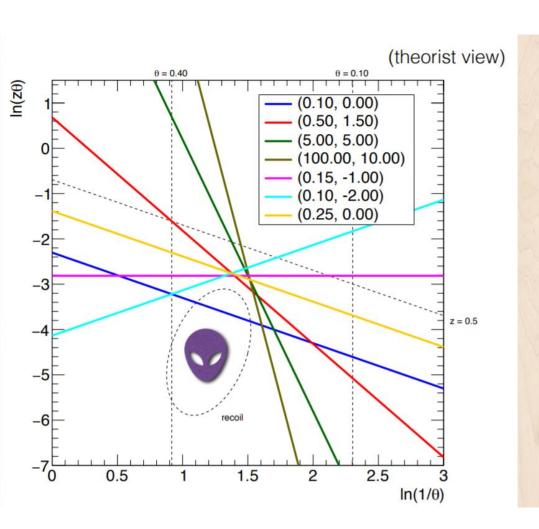


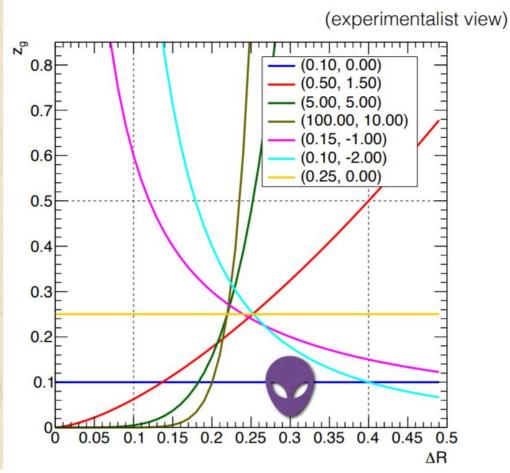
Previous Report





Softdrop

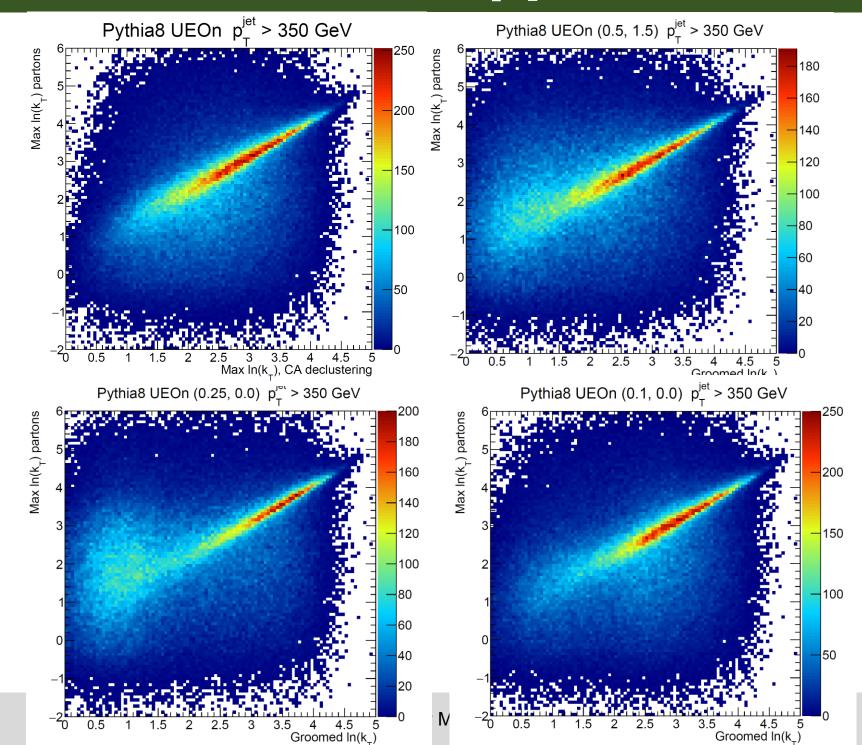








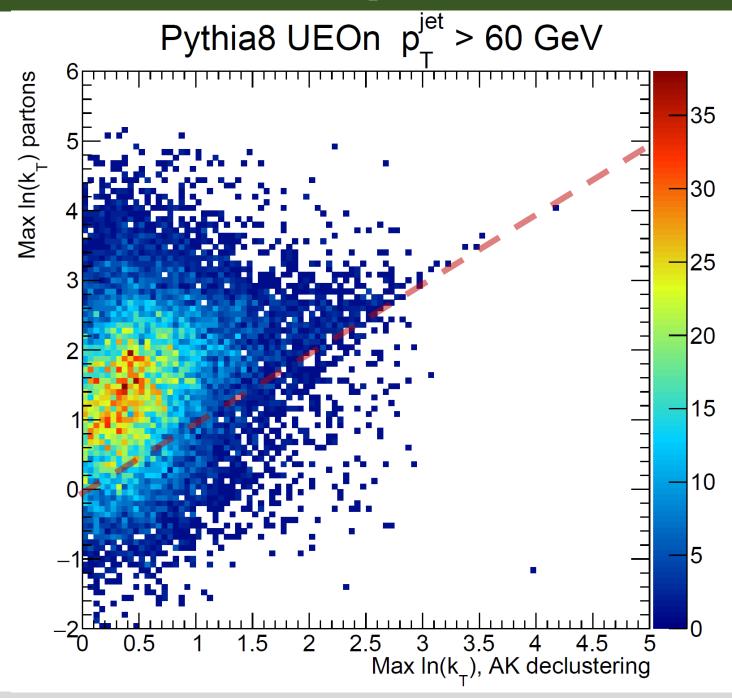
Performance with $\hat{p}_T > 300 \text{ GeV}$







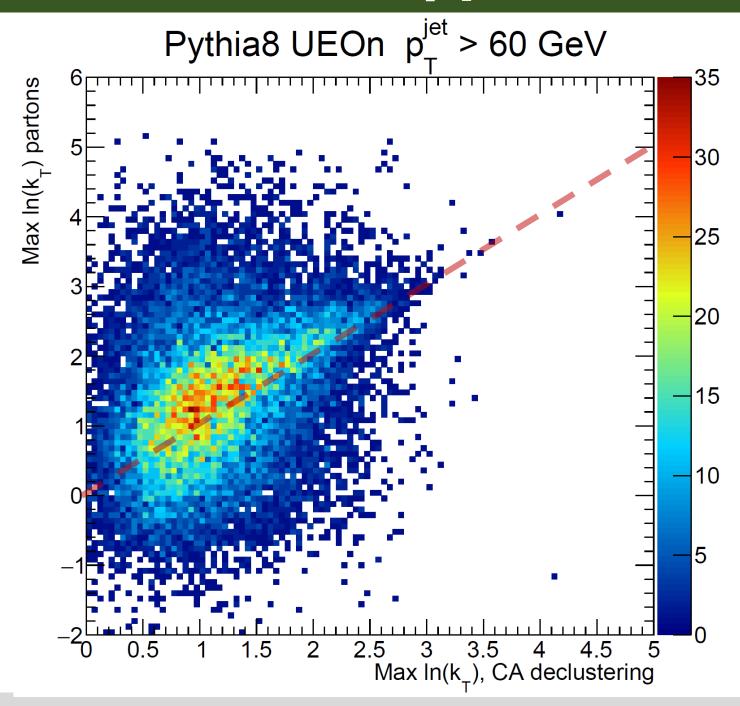
Performance with $\hat{p}_T > 50$ GeV, Anti-KT







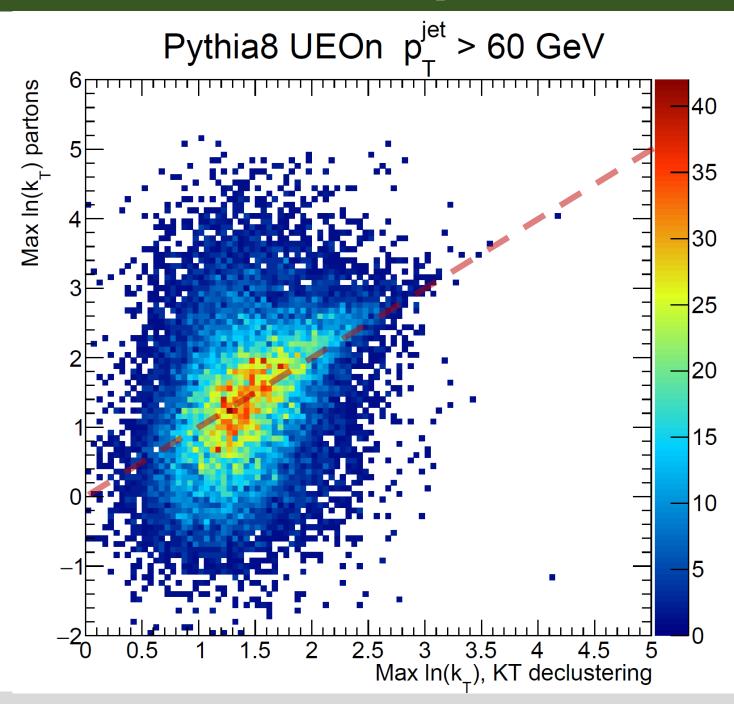
Performance with $\hat{p}_T > 50$ GeV, CA







Performance with $\hat{p}_T > 50$ GeV, KT



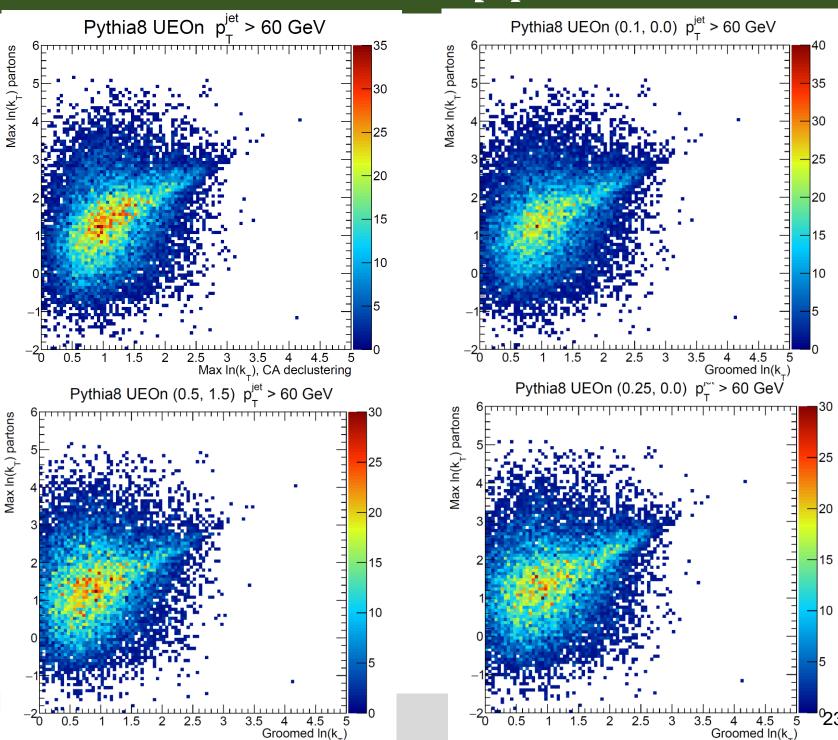




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Yen-Jie Lee & Yi Chen

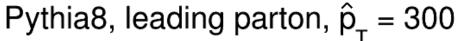
Performance with $\hat{p}_T > 50$ GeV, CA

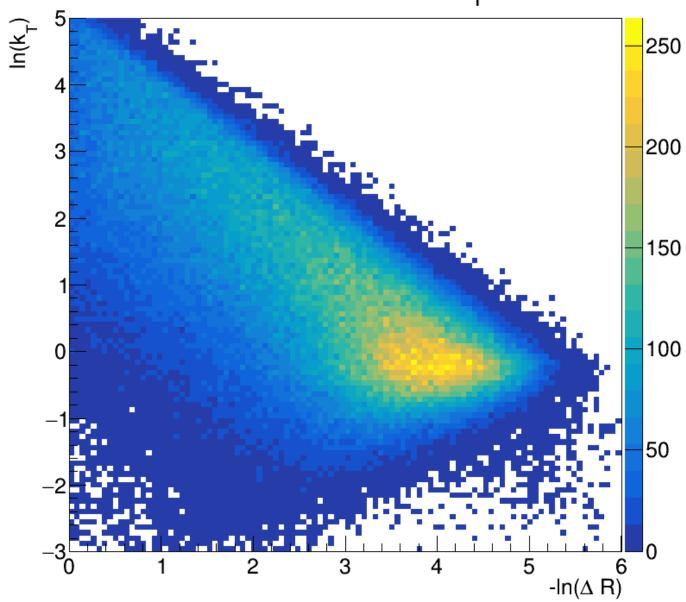






Lund Diagram from Parton Shower

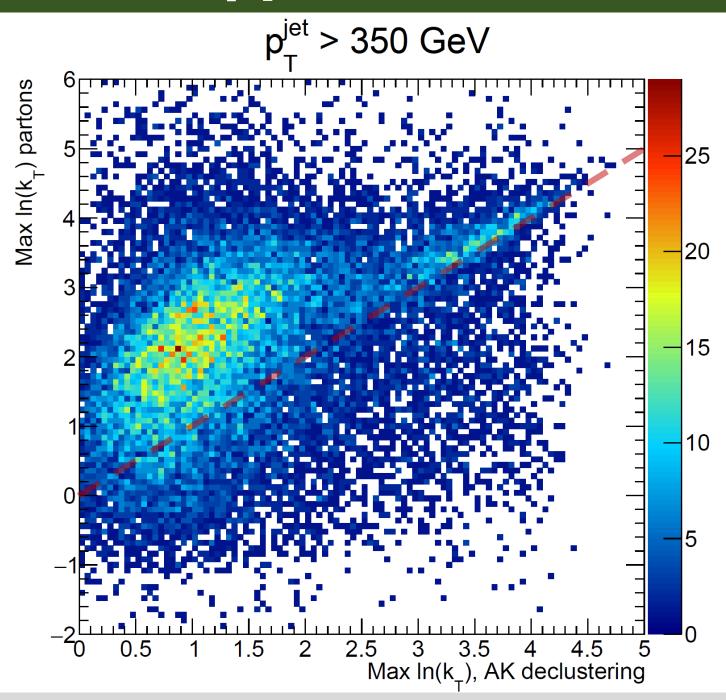








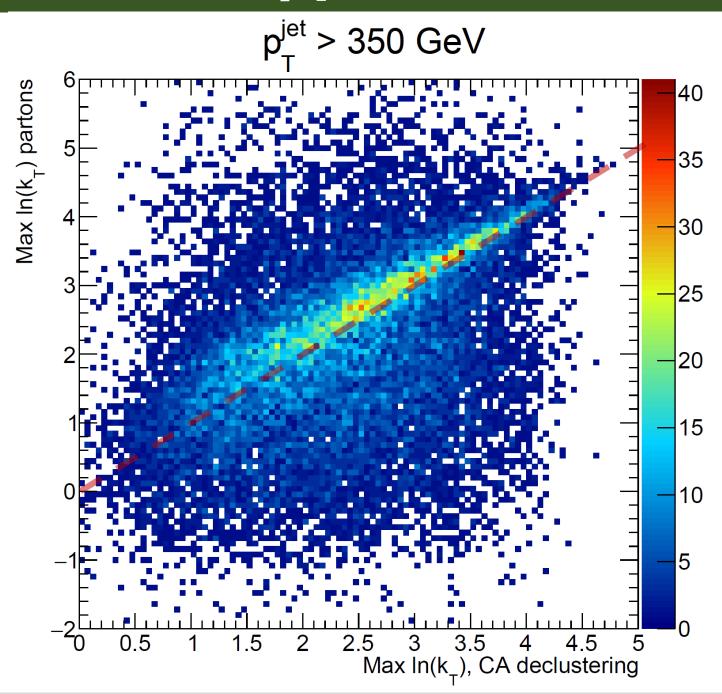
$\overrightarrow{PYTHIA} \hat{p}_T > 300 \text{ GeV, Anti-KT}$







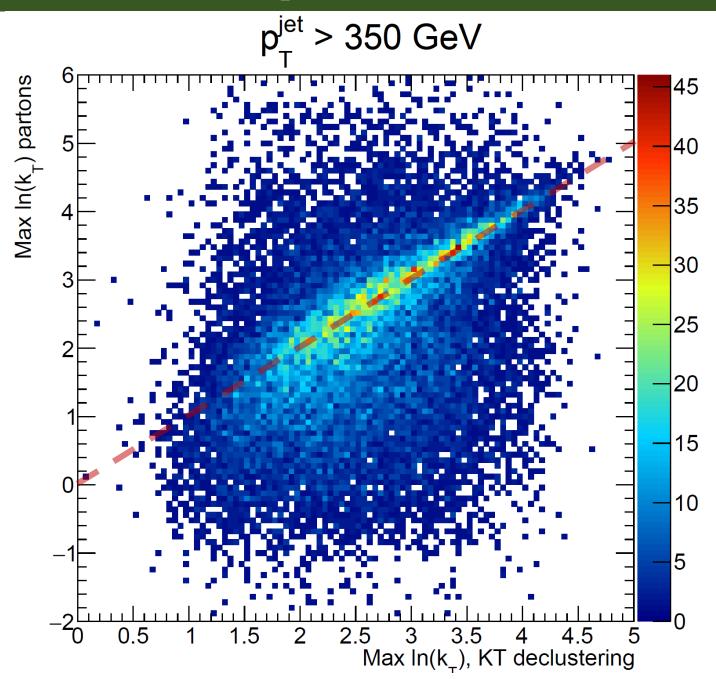
PYTHIA \hat{p}_T >300 GeV, CA







PYTHIA $\hat{p}_T > 300$ GeV, KT





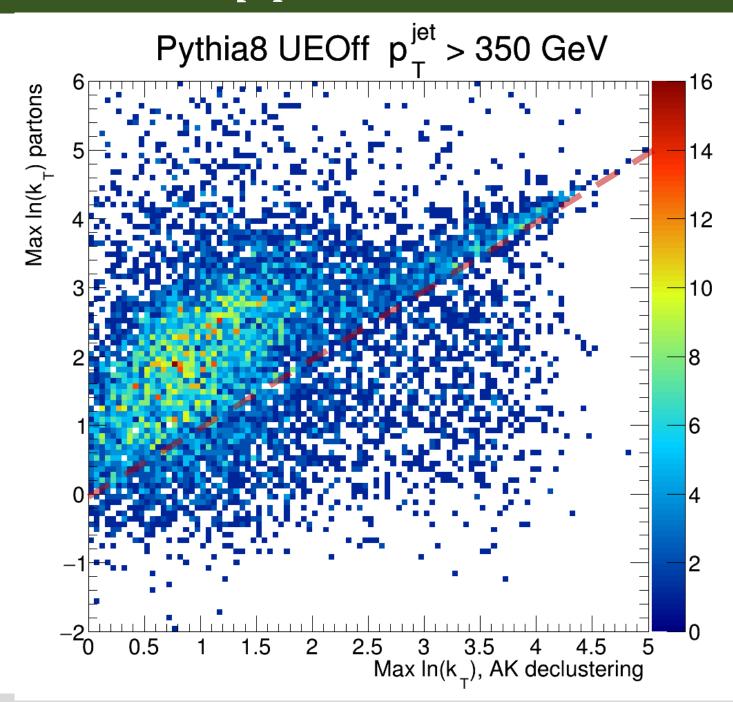


UE Off





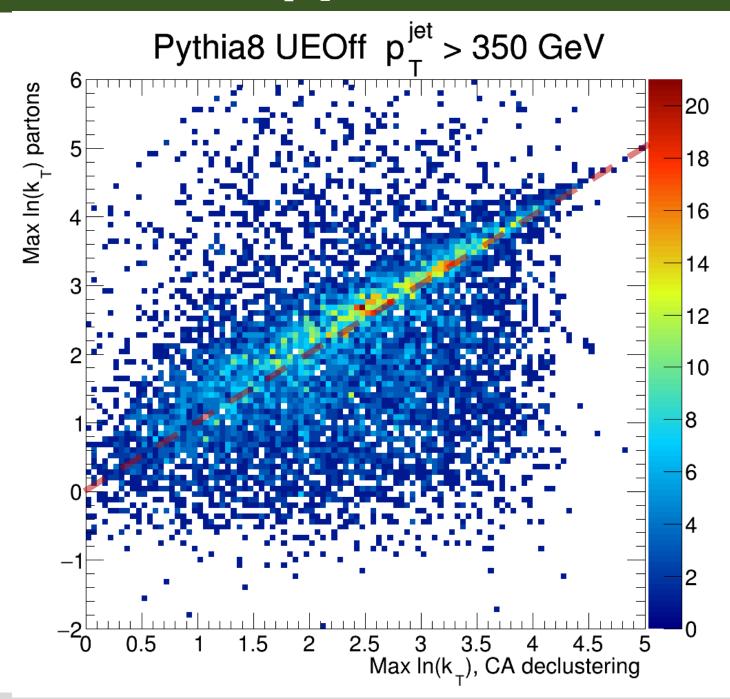
PYTHIA \hat{p}_T >300 GeV, Anti-KT







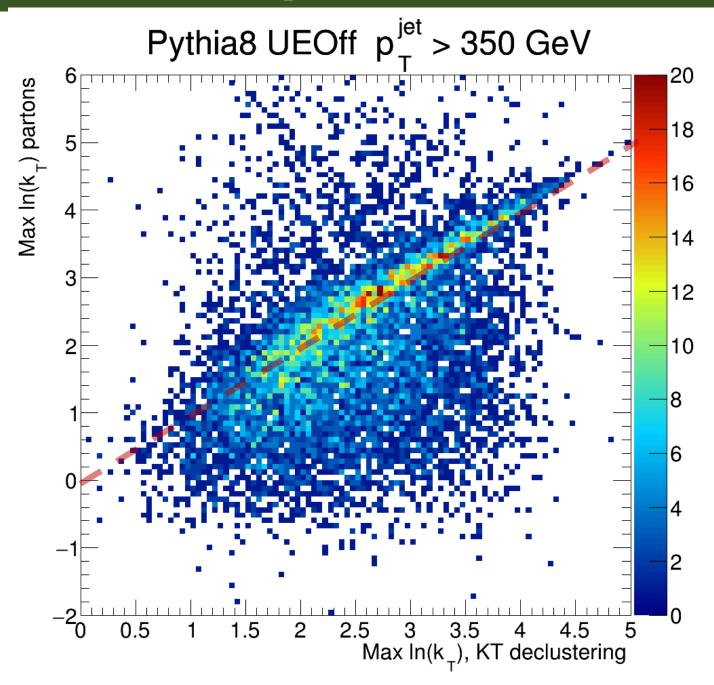
PYTHIA \hat{p}_T >300 GeV, CA







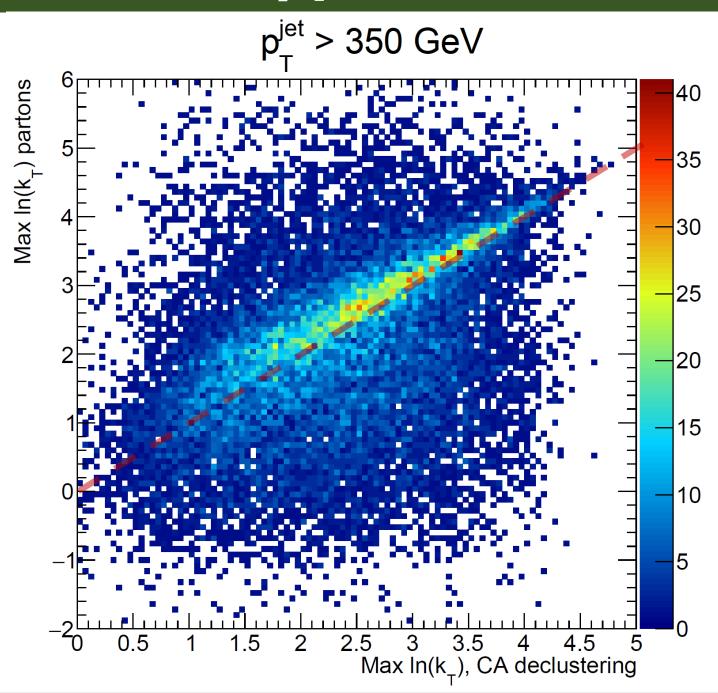
PYTHIA $\hat{p}_T > 300$ GeV, KT







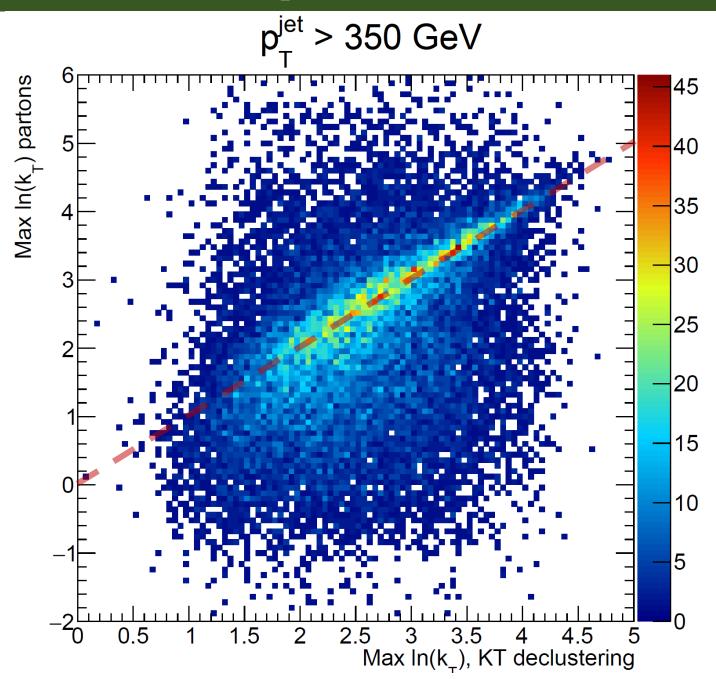
PYTHIA \hat{p}_T >300 GeV, CA







PYTHIA $\hat{p}_T > 300$ GeV, KT







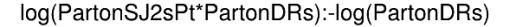
Backup slides

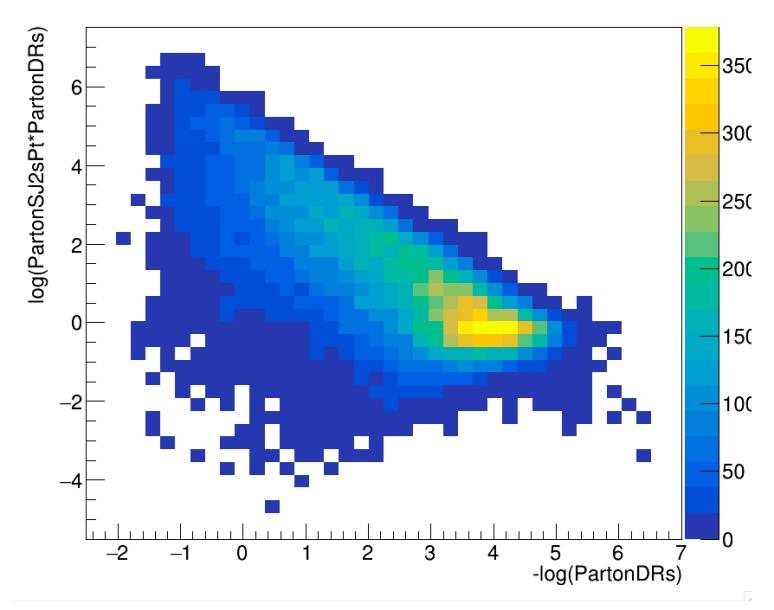
Unbeautified plots





Unbeautified Parton Level Lund Diagram

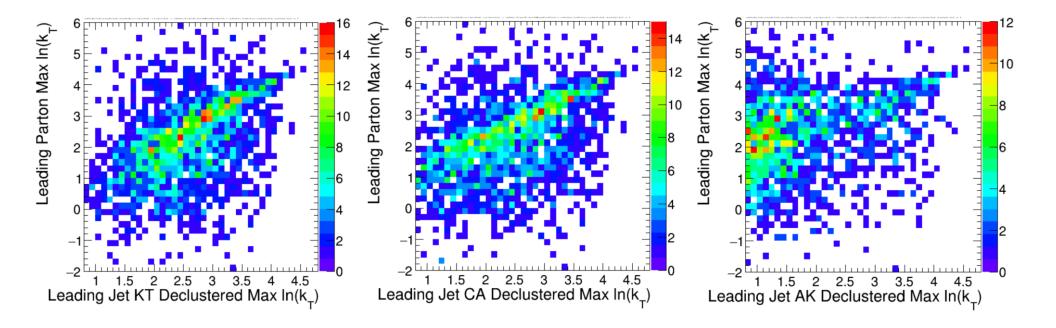








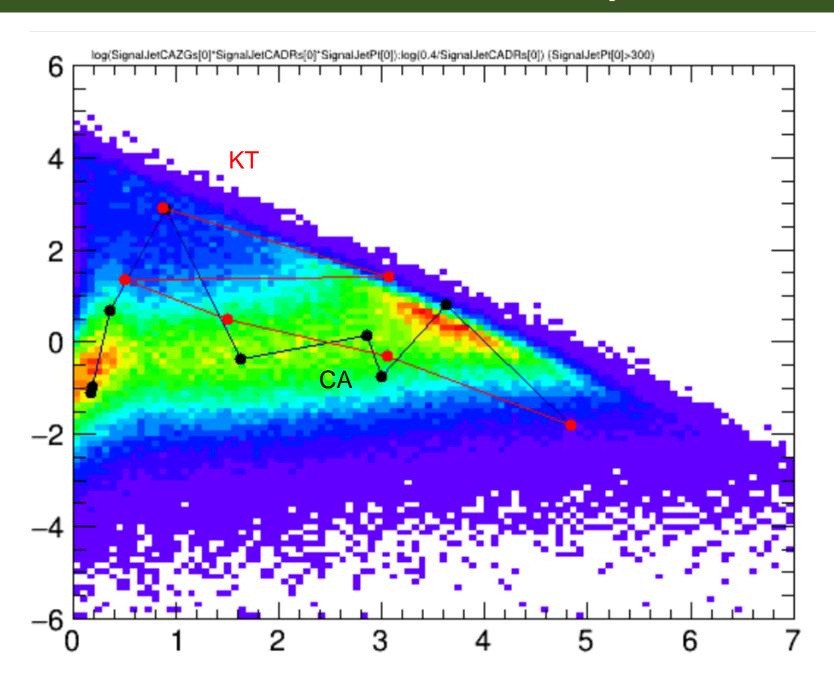
With lower statistics in cross-check macro







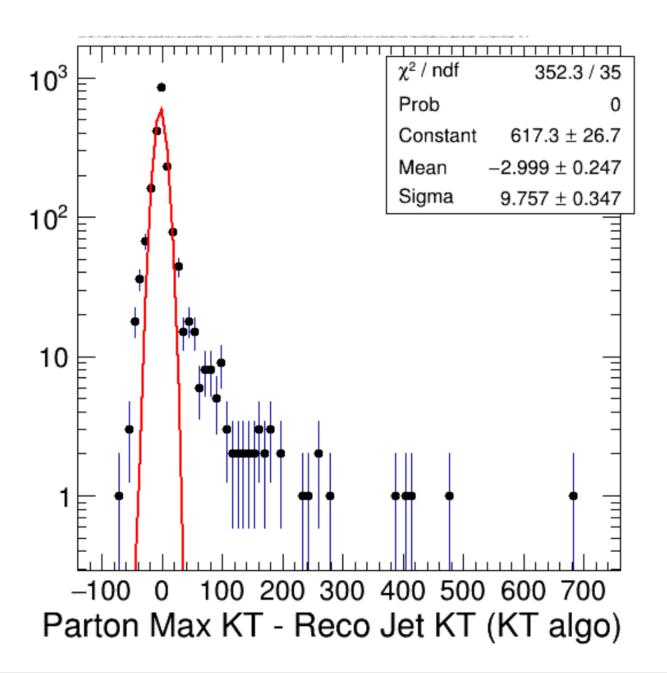
Unbeautified bad plot







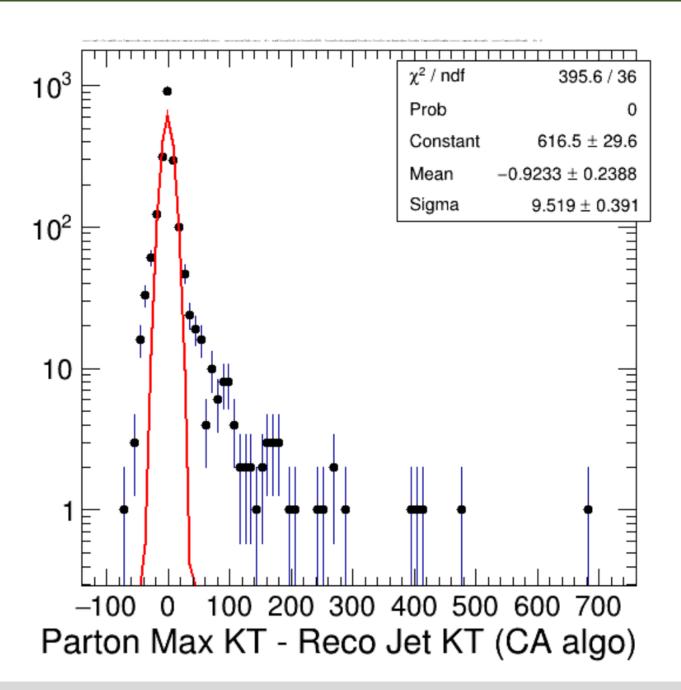
Unbeautified resolution function







Unbeautified resolution function







Unbeautified resolution function

