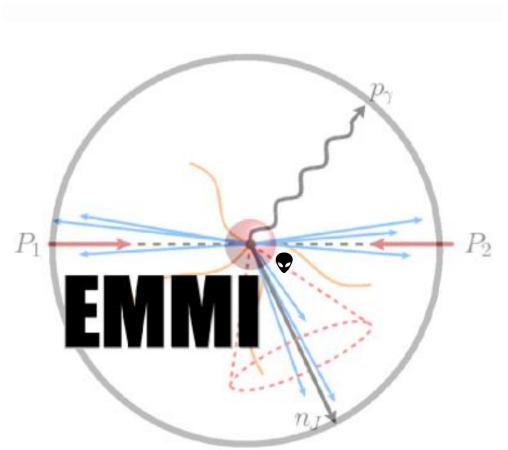
Status Report



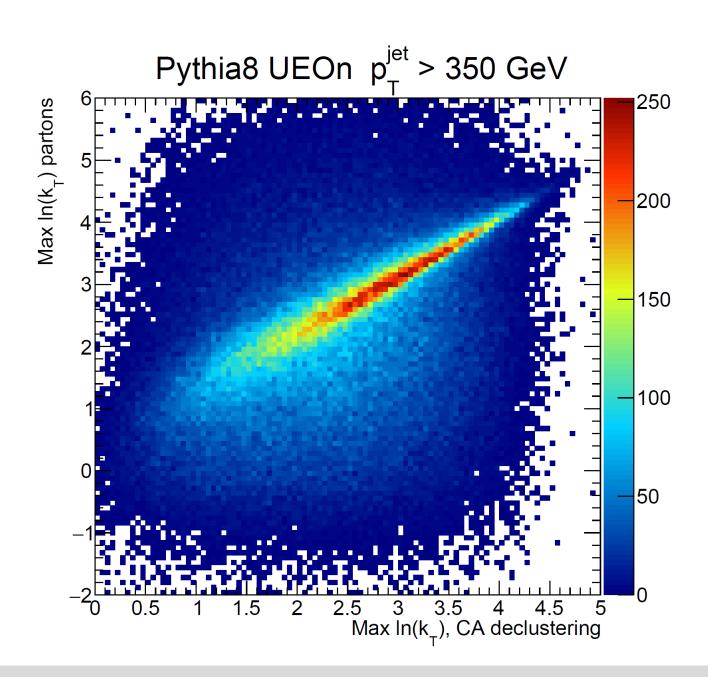


Let's go Lunni!





Jet (CA) PYTHIA8 pThat300

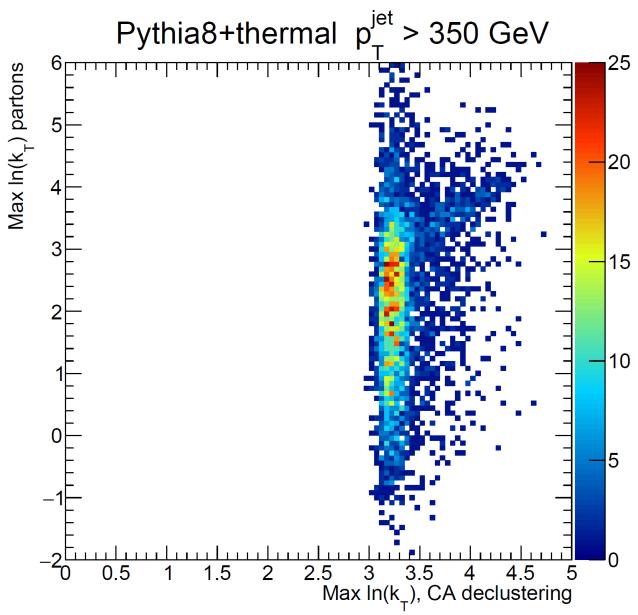






Jet (CA) PYTHIA+Termal Background (PbPb 5 TeV 0-10%)

Without background sub

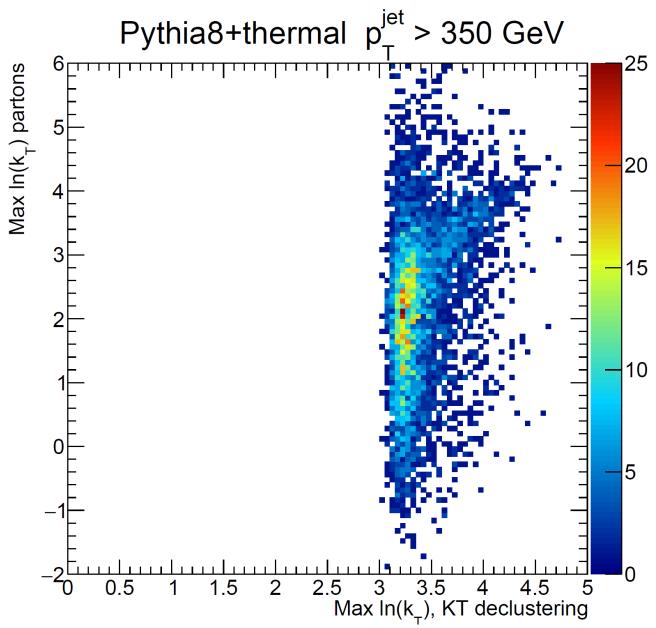






Jet (KT) PYTHIA+Termal Background (PbPb 5 TeV 0-10%)

Without background sub



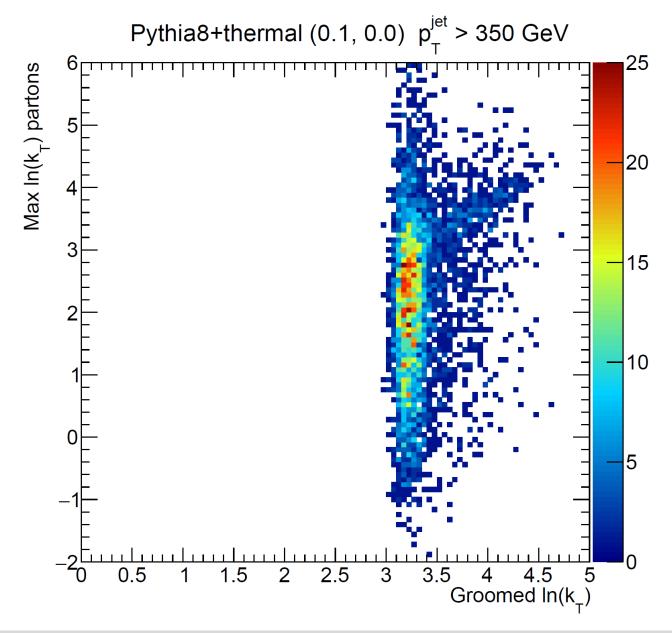




Groomed Jet (CA) PYTHIA+Termal Background (PbPb 5 TeV 0-10%)

Zcut (0.1,0)

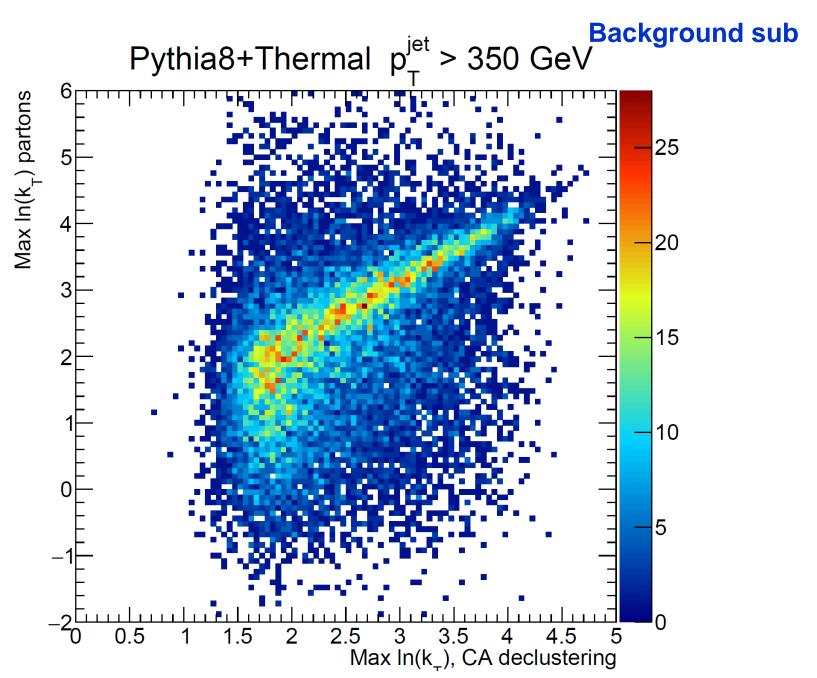
Without background sub







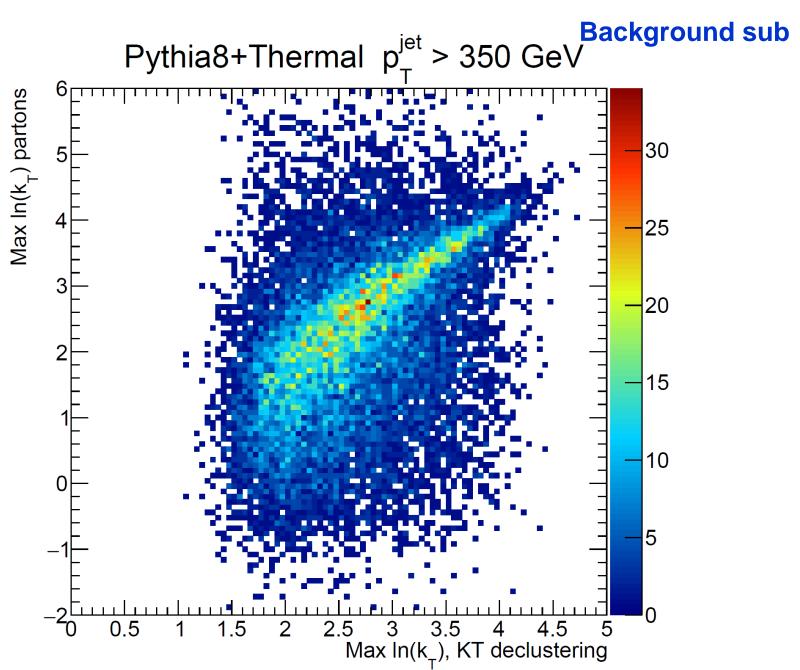
Jet (CA) PYTHIA+Termal Background (PbPb 5 TeV 0-10%)







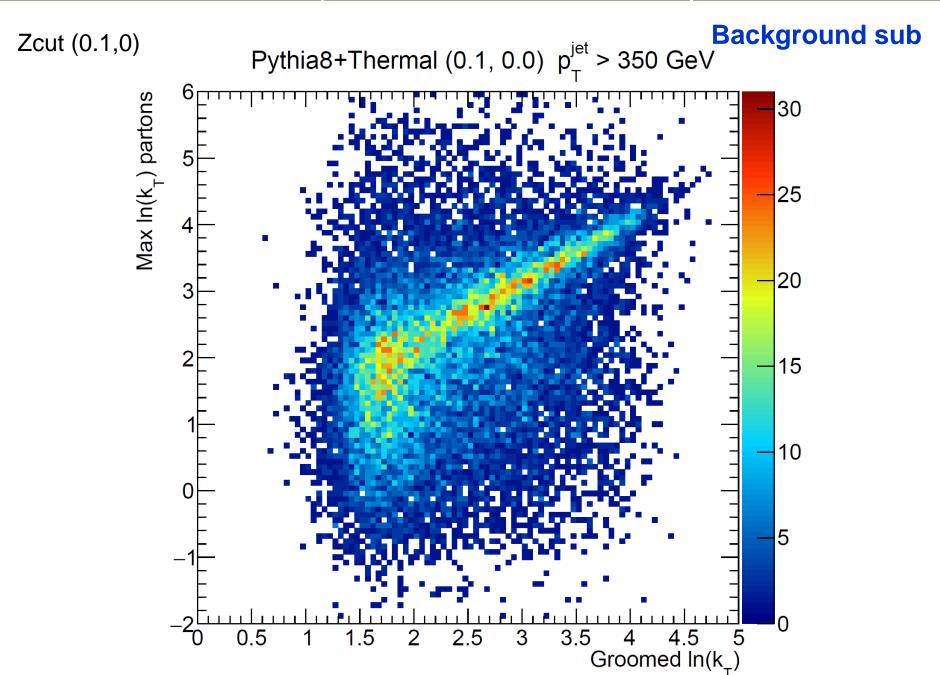
Jet (KT) PYTHIA+Termal Background (PbPb 5 TeV 0-10%)







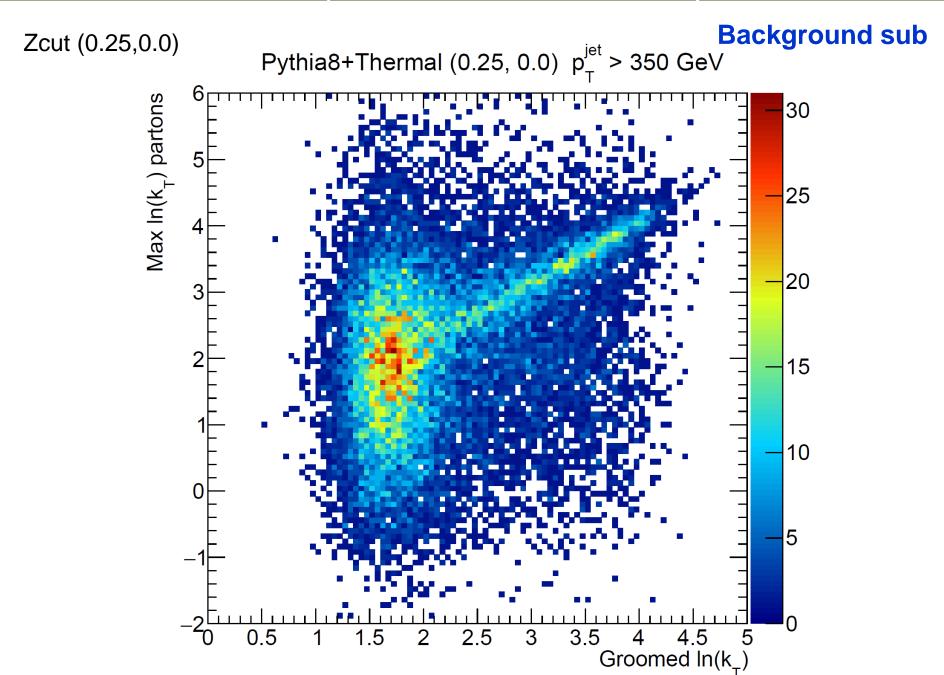
Groomed Jet (CA) PYTHIA+Termal Background (PbPb 5 TeV 0-10%)







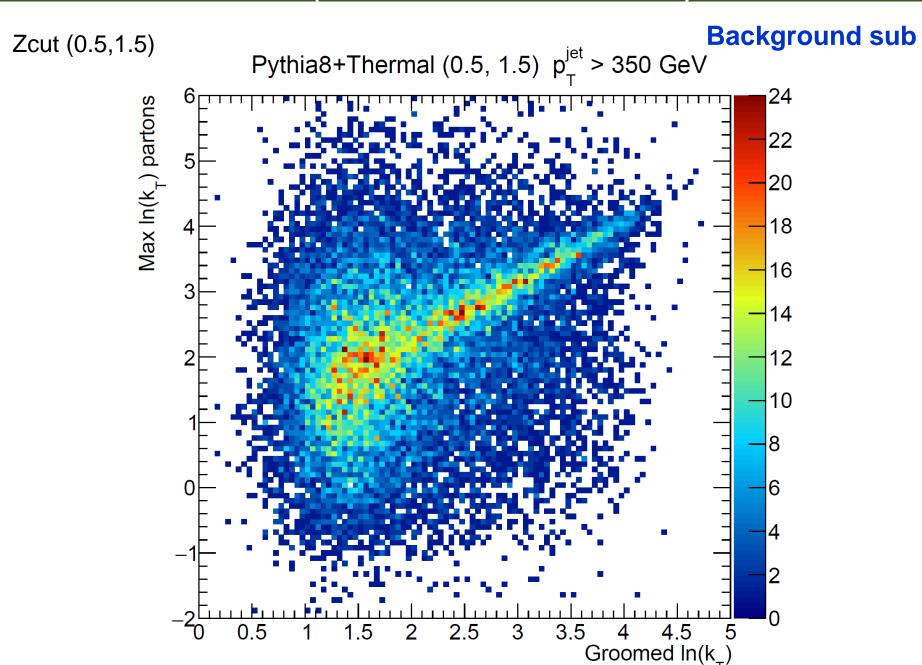
Groomed Jet (CA) PYTHIA+Termal Background (PbPb 5 TeV 0-10%)







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







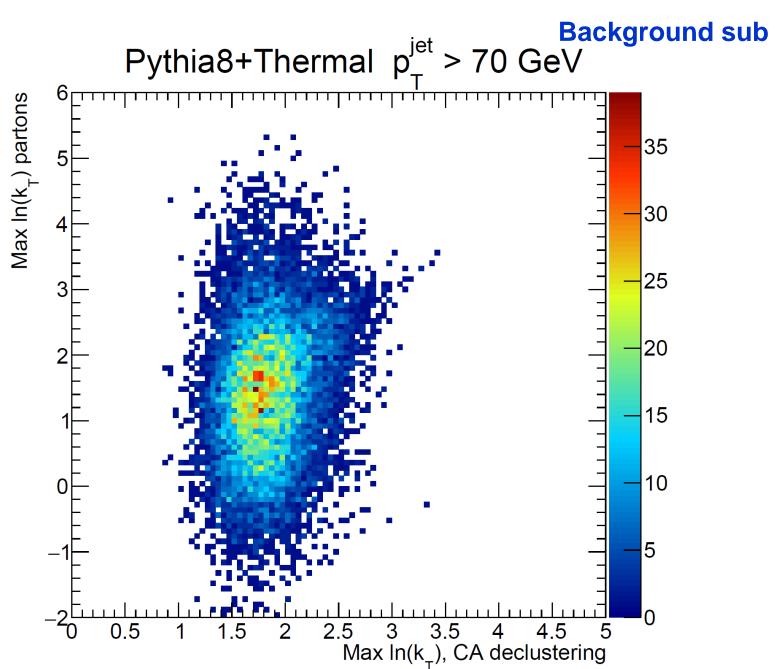
Low pT Jet in thermal background







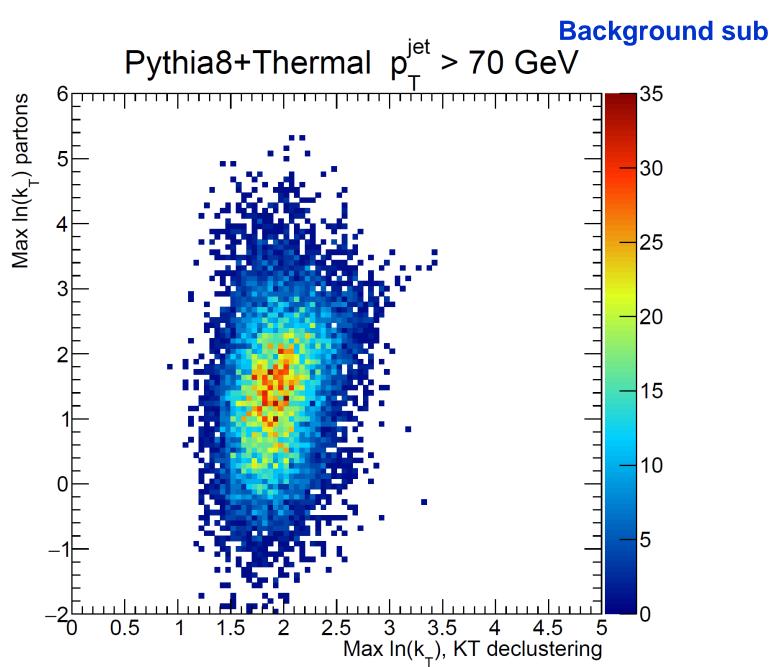
Jet (CA) PYTHIA+Termal Background (PbPb 5 TeV 0-10%) Low pT jet







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







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

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





14

3

3.5

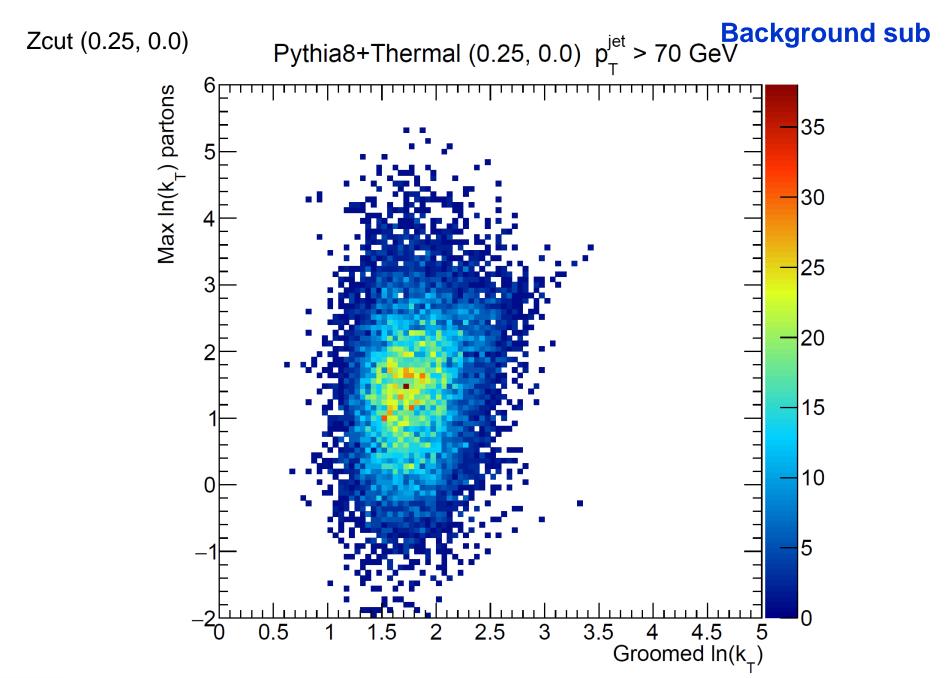
2.5

4.5

Groomed In(k_)

0.5

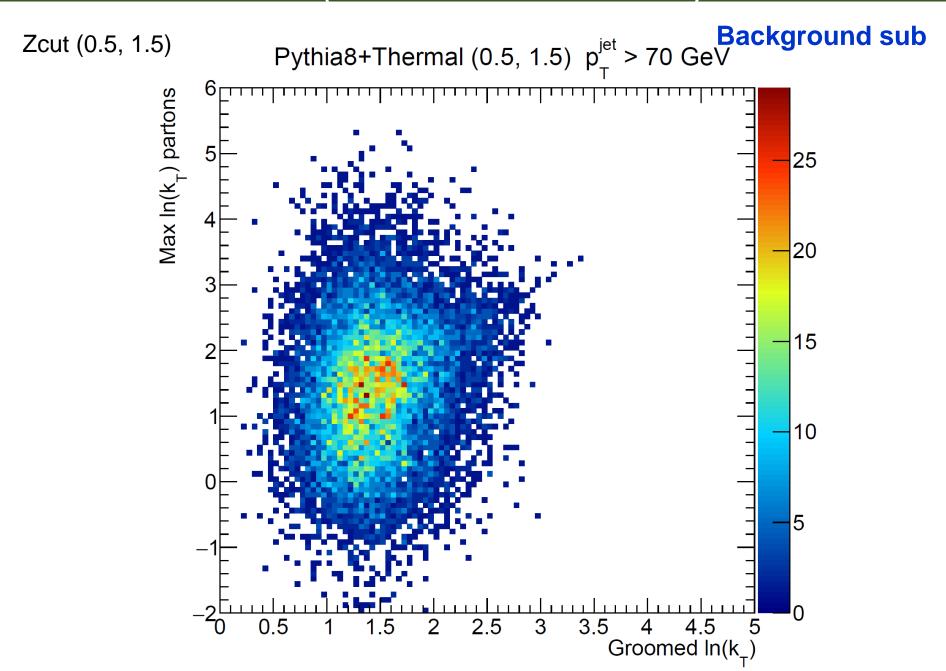
Groomed Jet (CA) PYTHIA+Termal Background (PbPb 5 TeV 0-10%) Low pT Jet







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





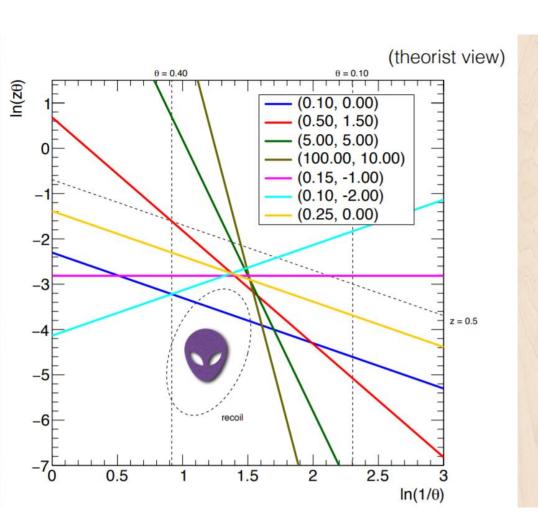


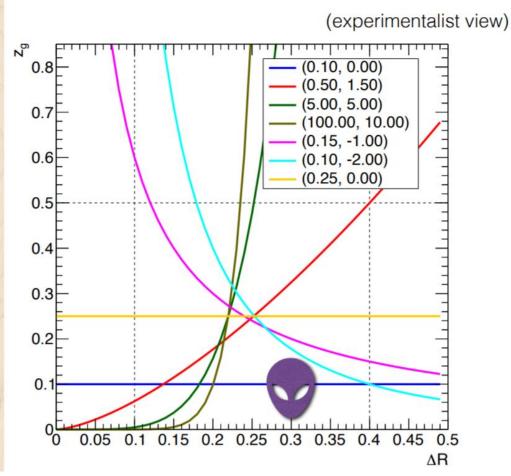
Previous Report





Softdrop

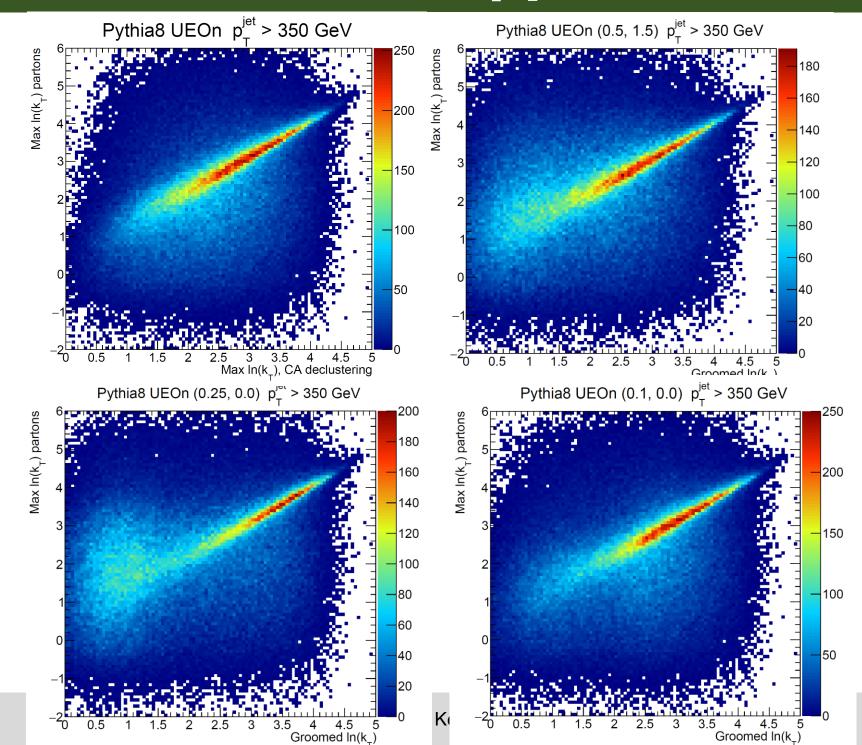








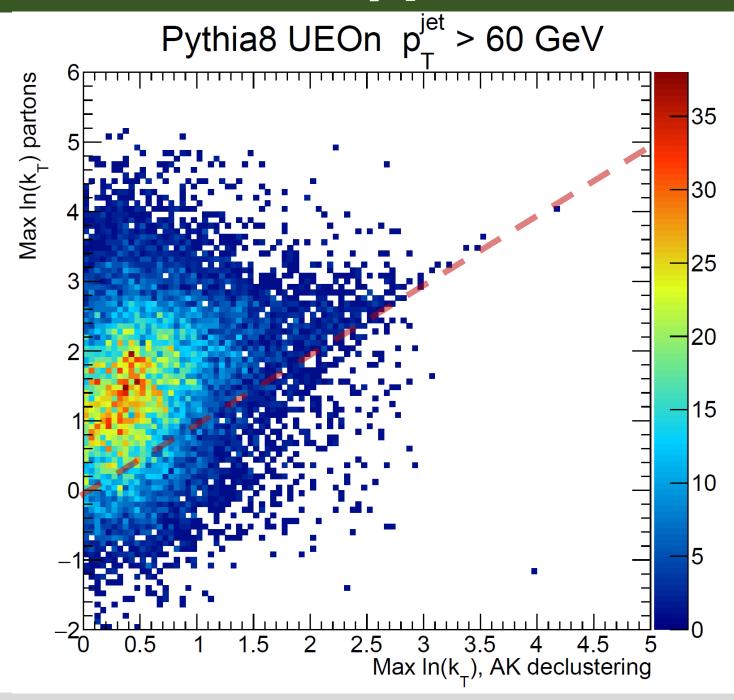
Performance with $\hat{p}_T > 300 \text{ GeV}$







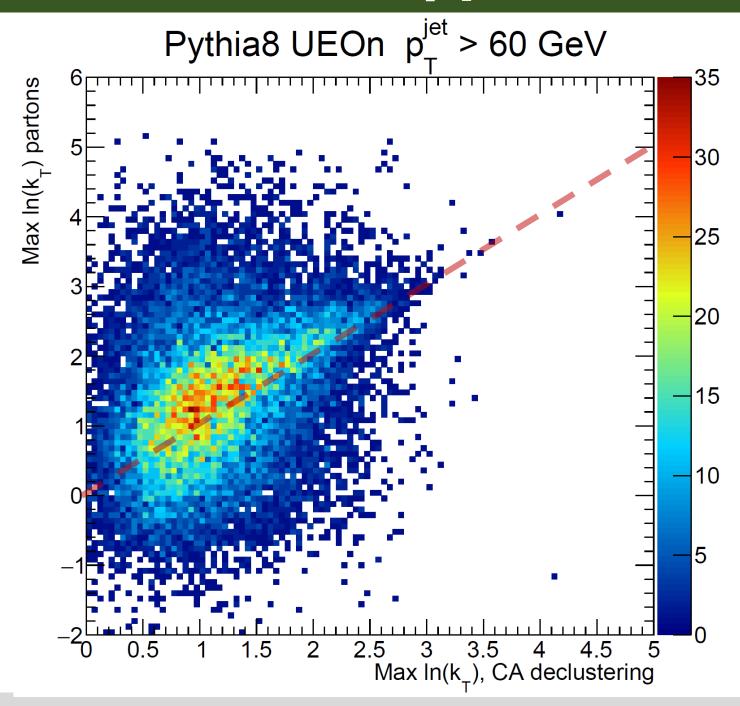
Performance with \hat{p}_T >50 GeV, Anti-KT







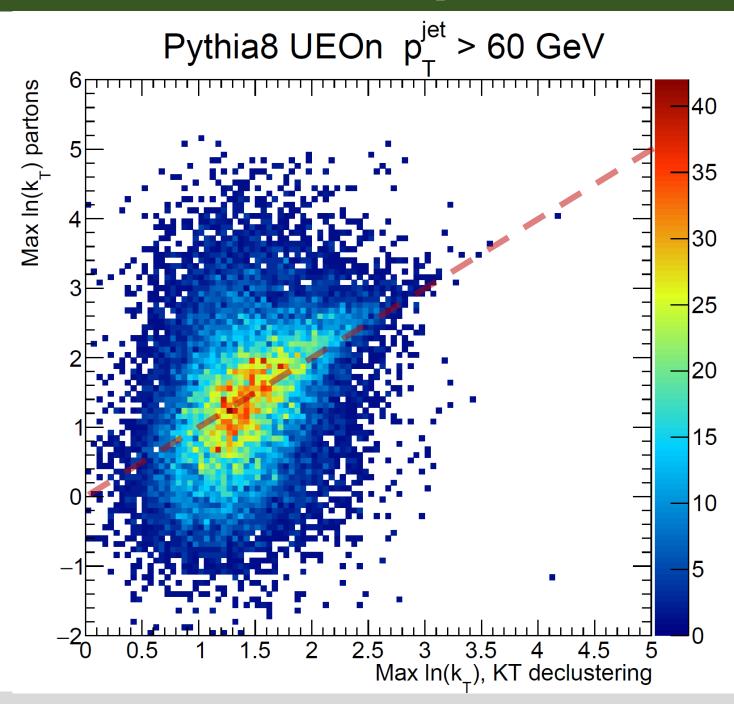
Performance with $\hat{p}_T > 50$ GeV, CA







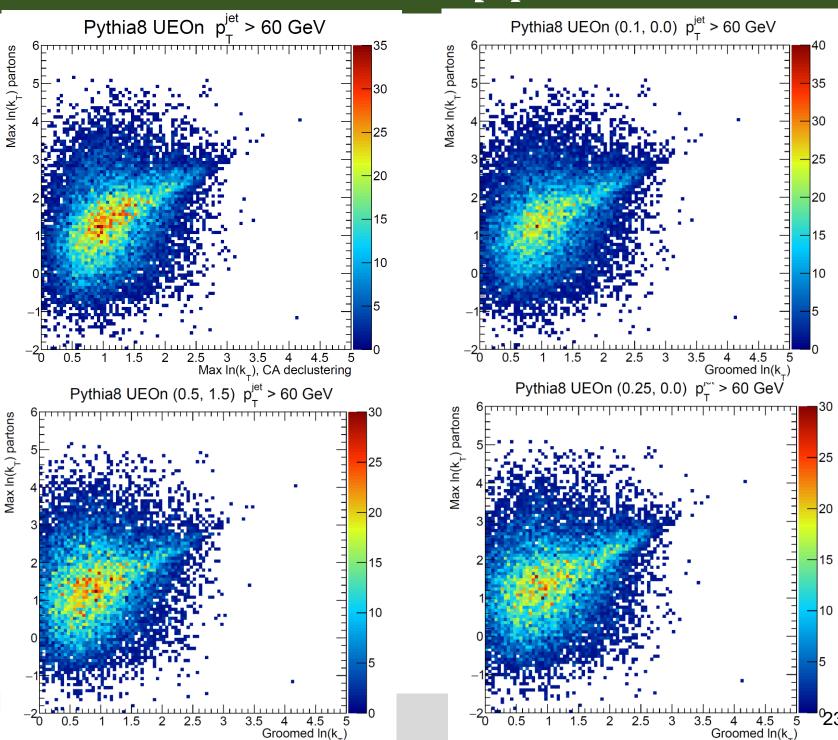
Performance with $\hat{p}_T > 50$ GeV, KT







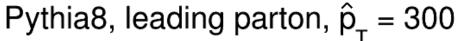
Performance with $\hat{p}_T > 50$ GeV, CA

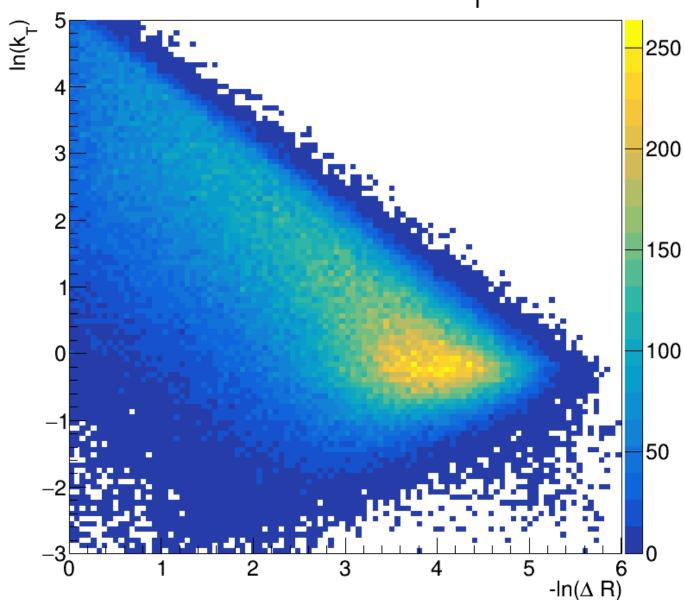






Lund Diagram from Parton Shower

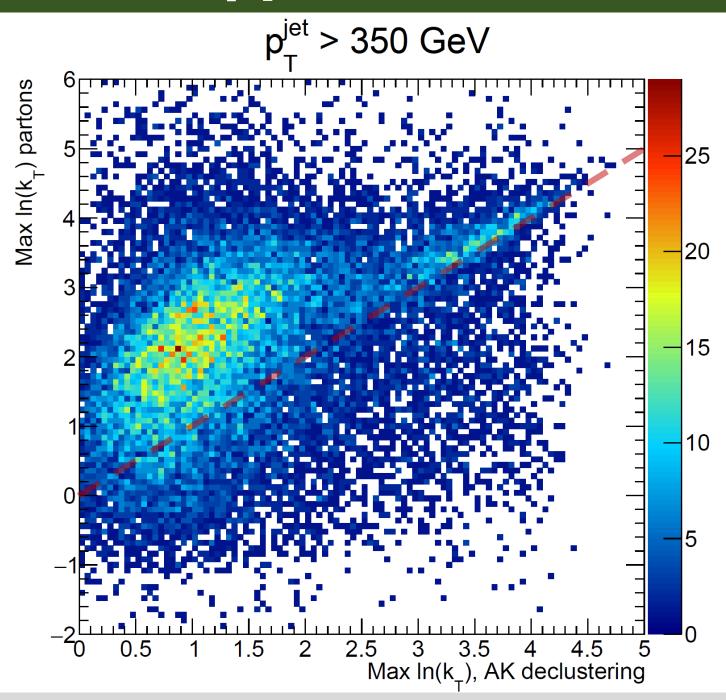








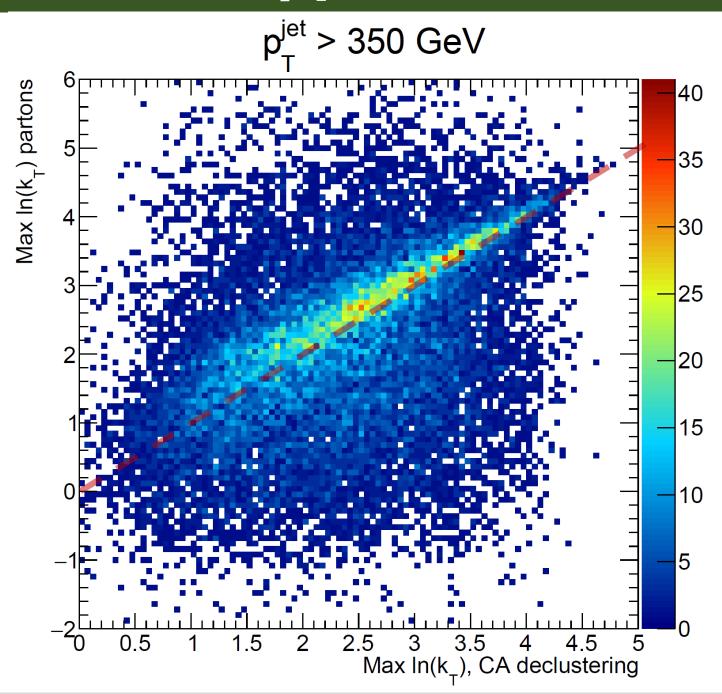
$\overrightarrow{PYTHIA} \hat{p}_T > 300 \text{ GeV, Anti-KT}$







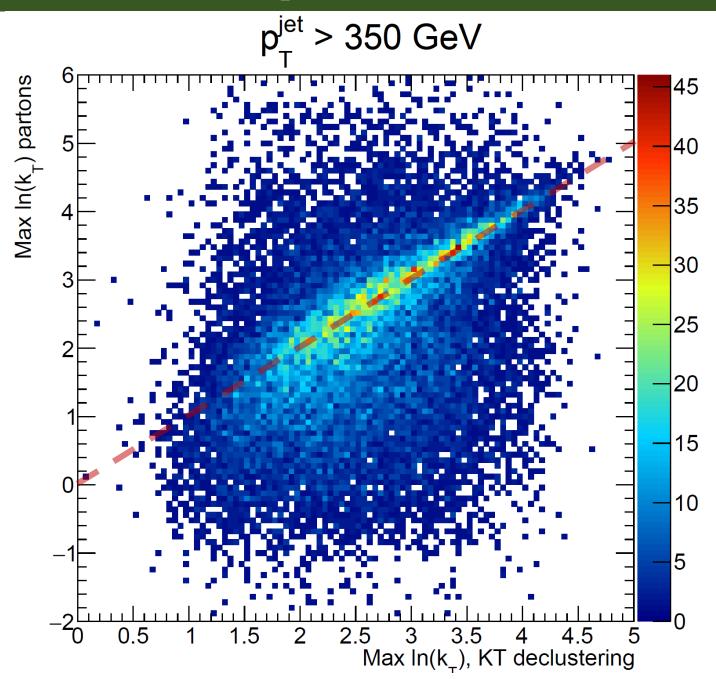
PYTHIA \hat{p}_T >300 GeV, CA







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





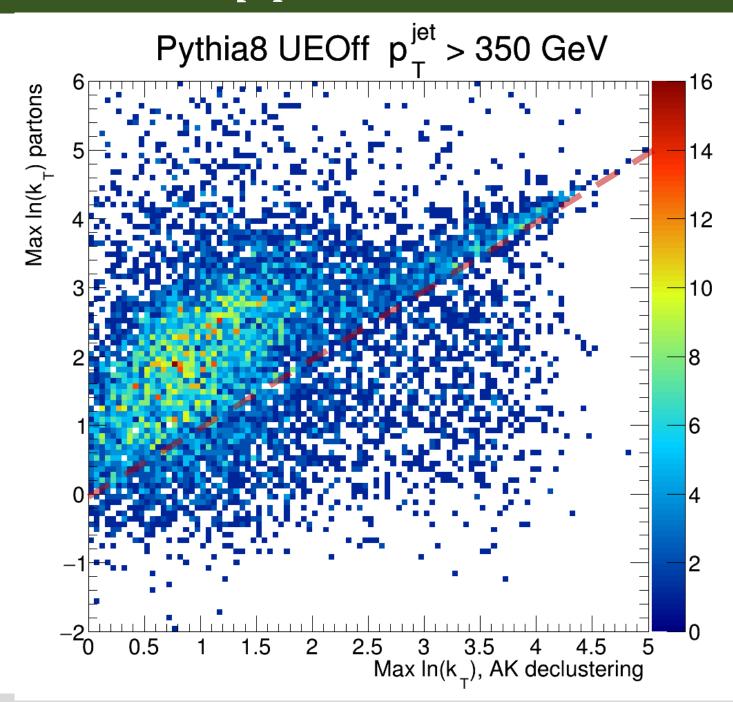


UE Off





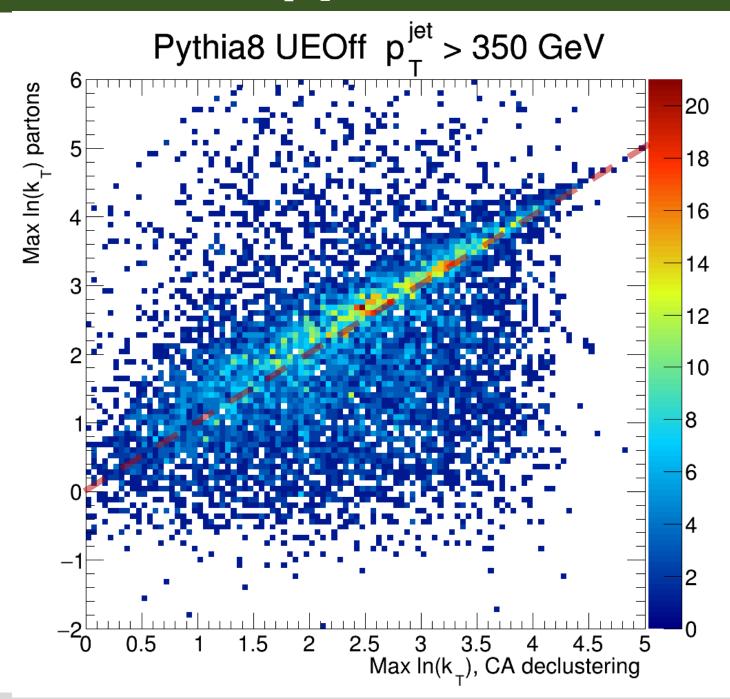
PYTHIA \hat{p}_T >300 GeV, Anti-KT







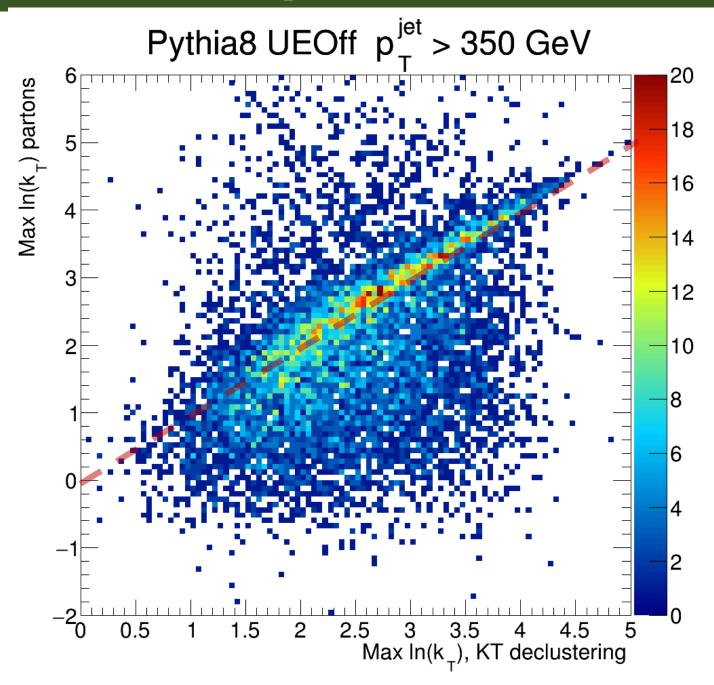
PYTHIA \hat{p}_T >300 GeV, CA







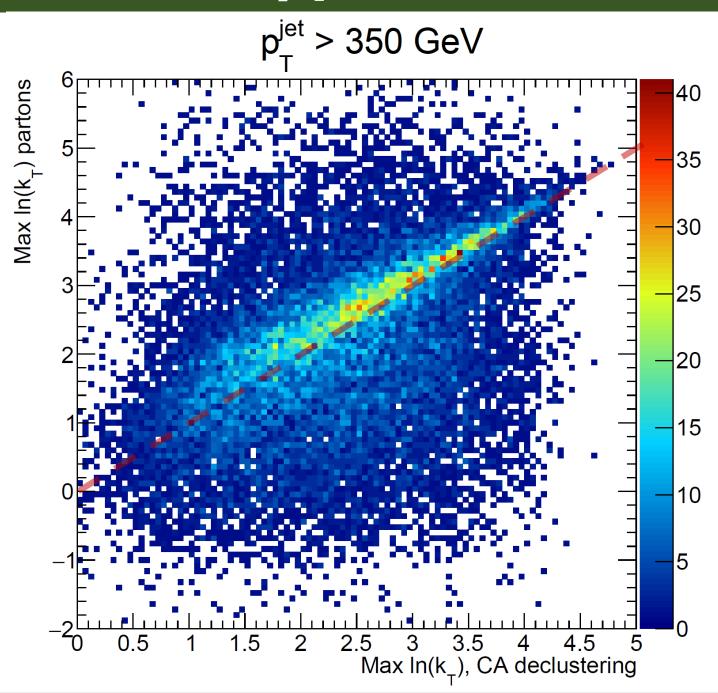
PYTHIA $\hat{p}_T > 300$ GeV, KT







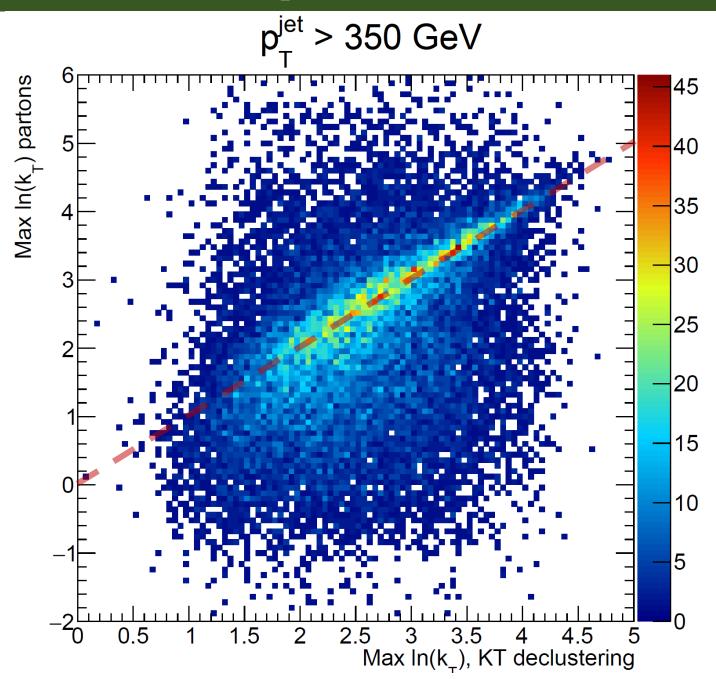
PYTHIA \hat{p}_T >300 GeV, CA







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







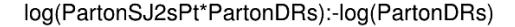
Backup slides

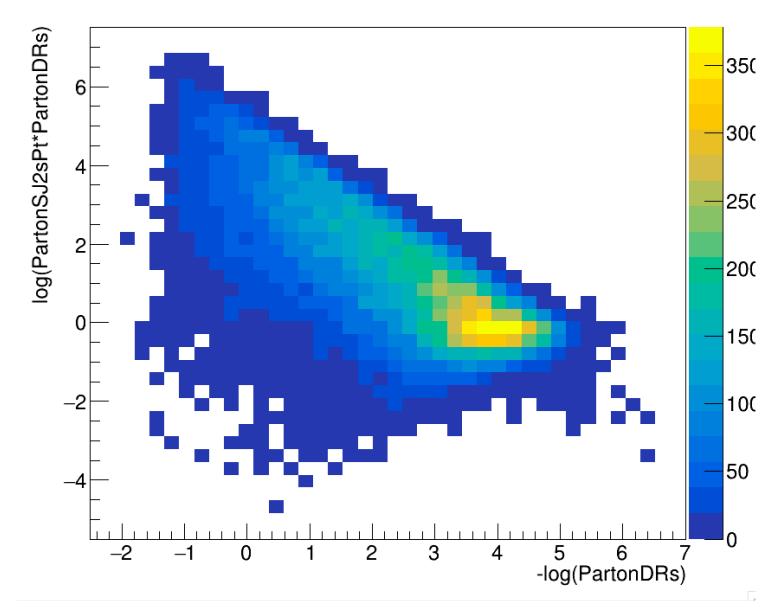
Unbeautified plots





Unbeautified Parton Level Lund Diagram

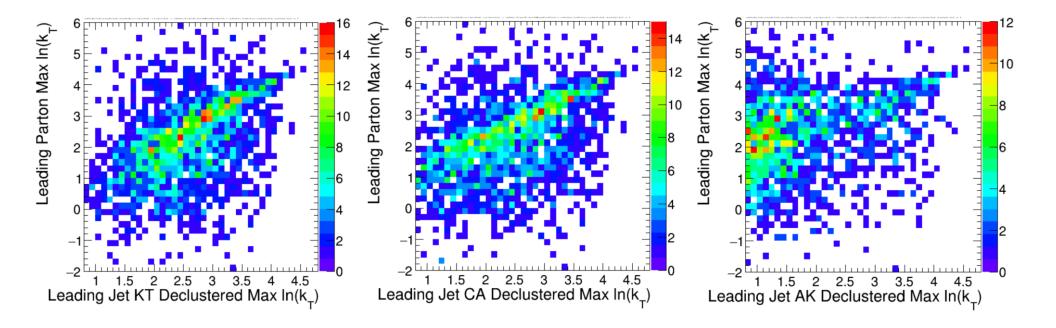








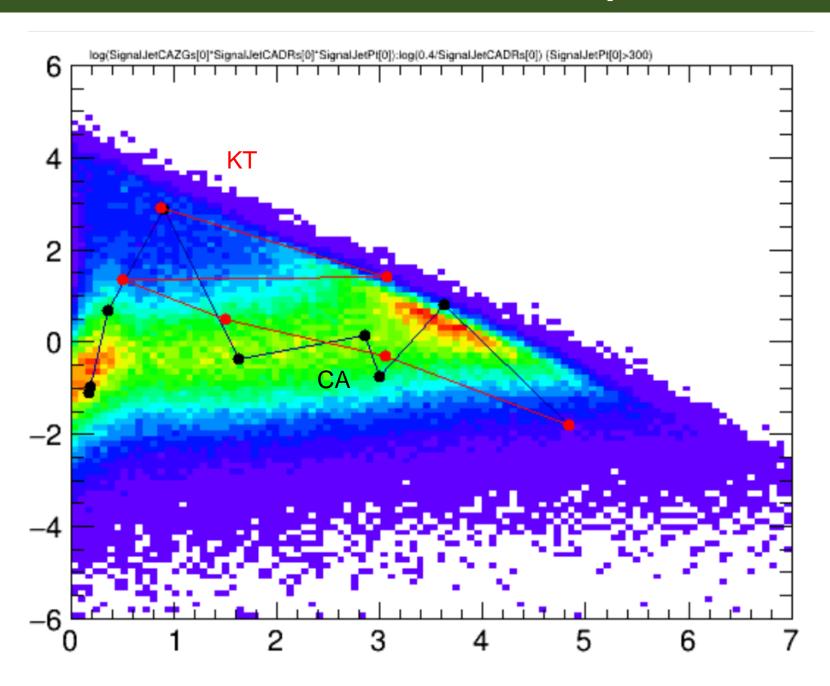
With lower statistics in cross-check macro







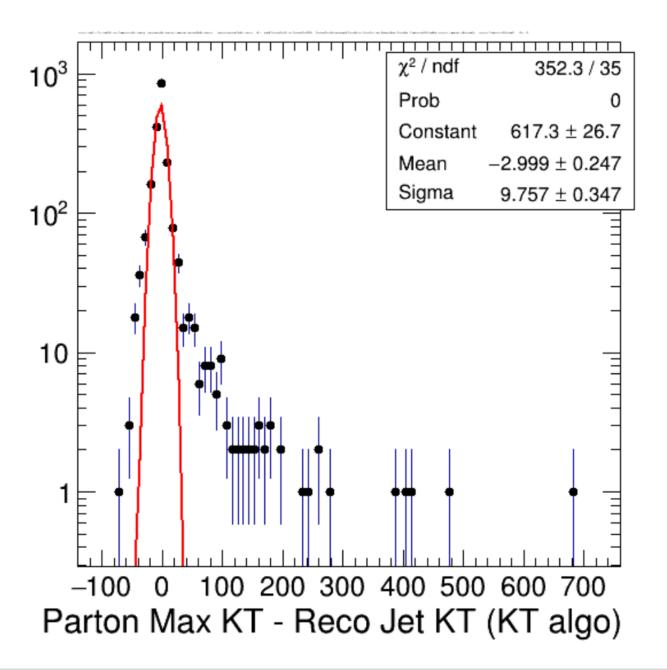
Unbeautified bad plot







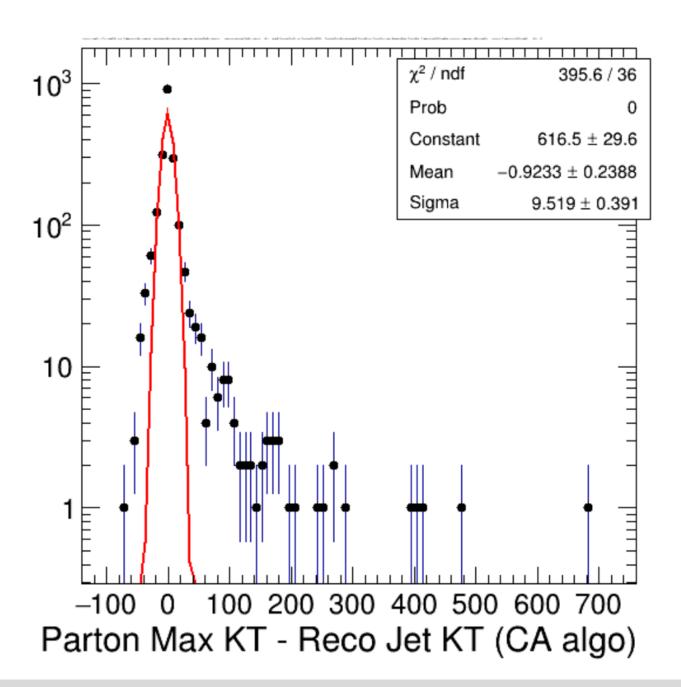
Unbeautified resolution function







Unbeautified resolution function







Unbeautified resolution function

