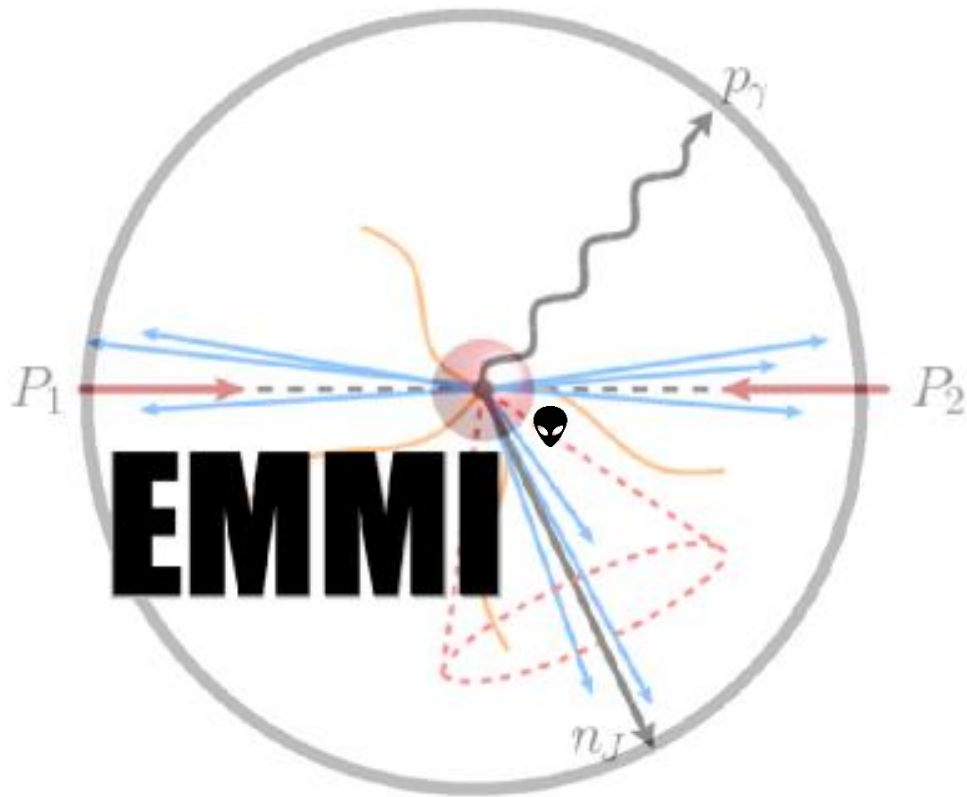


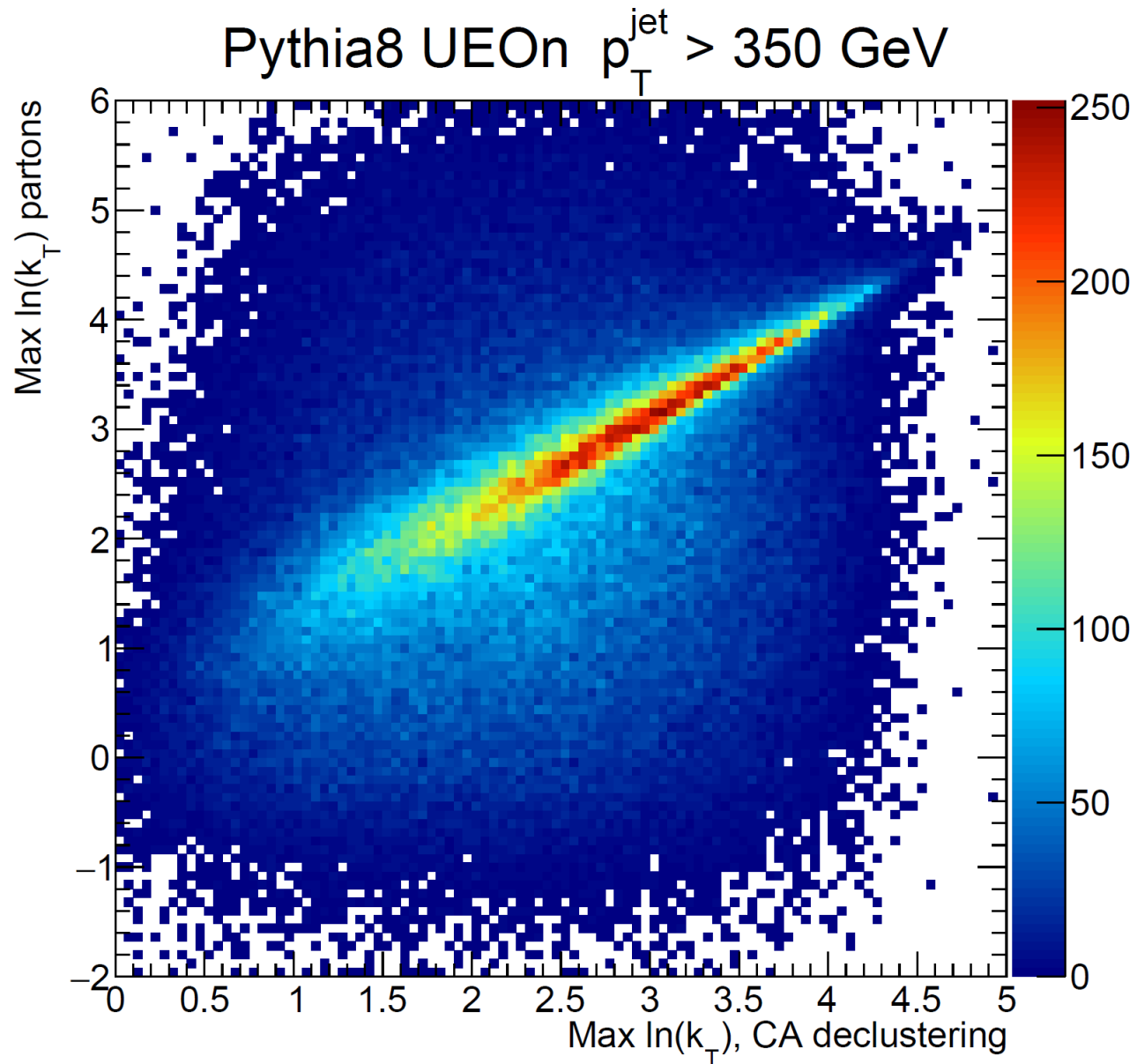
Status Report



Let's go Lunni!

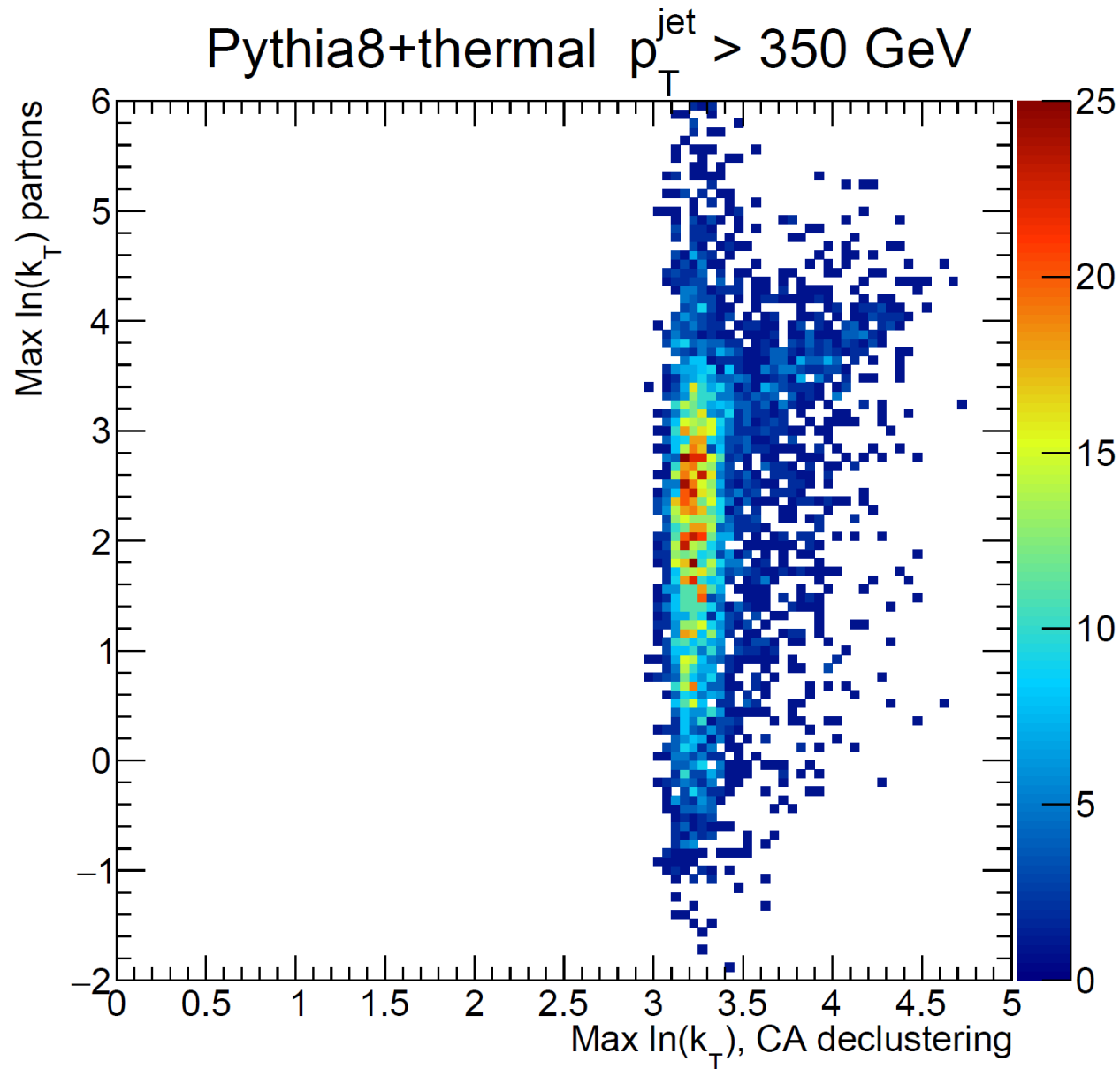
Jet (CA) PYTHIA

Background sub



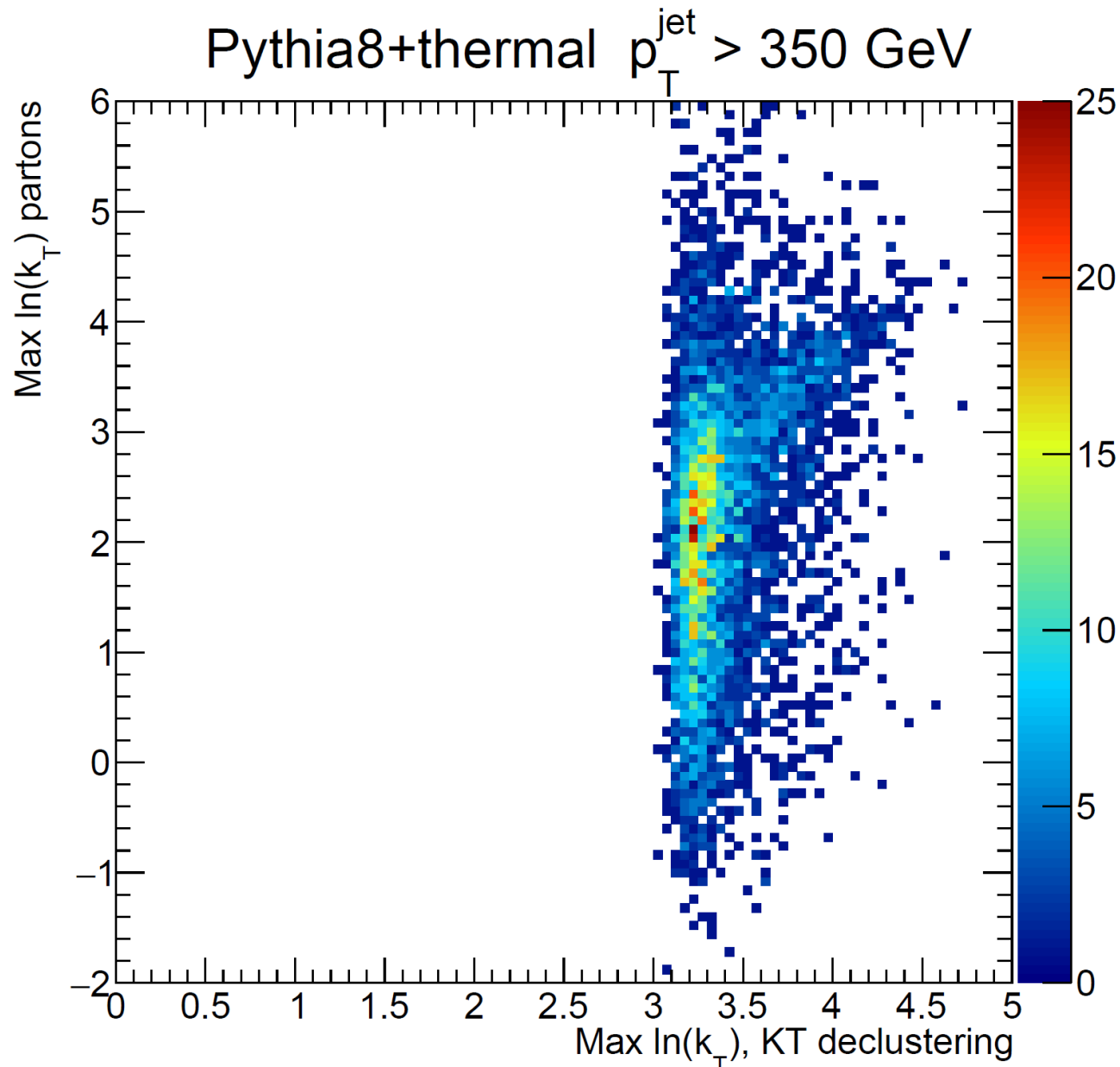
Jet (CA) PYTHIA+Thermal Background (PbPb 5 TeV 0-10%)

Without background sub



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

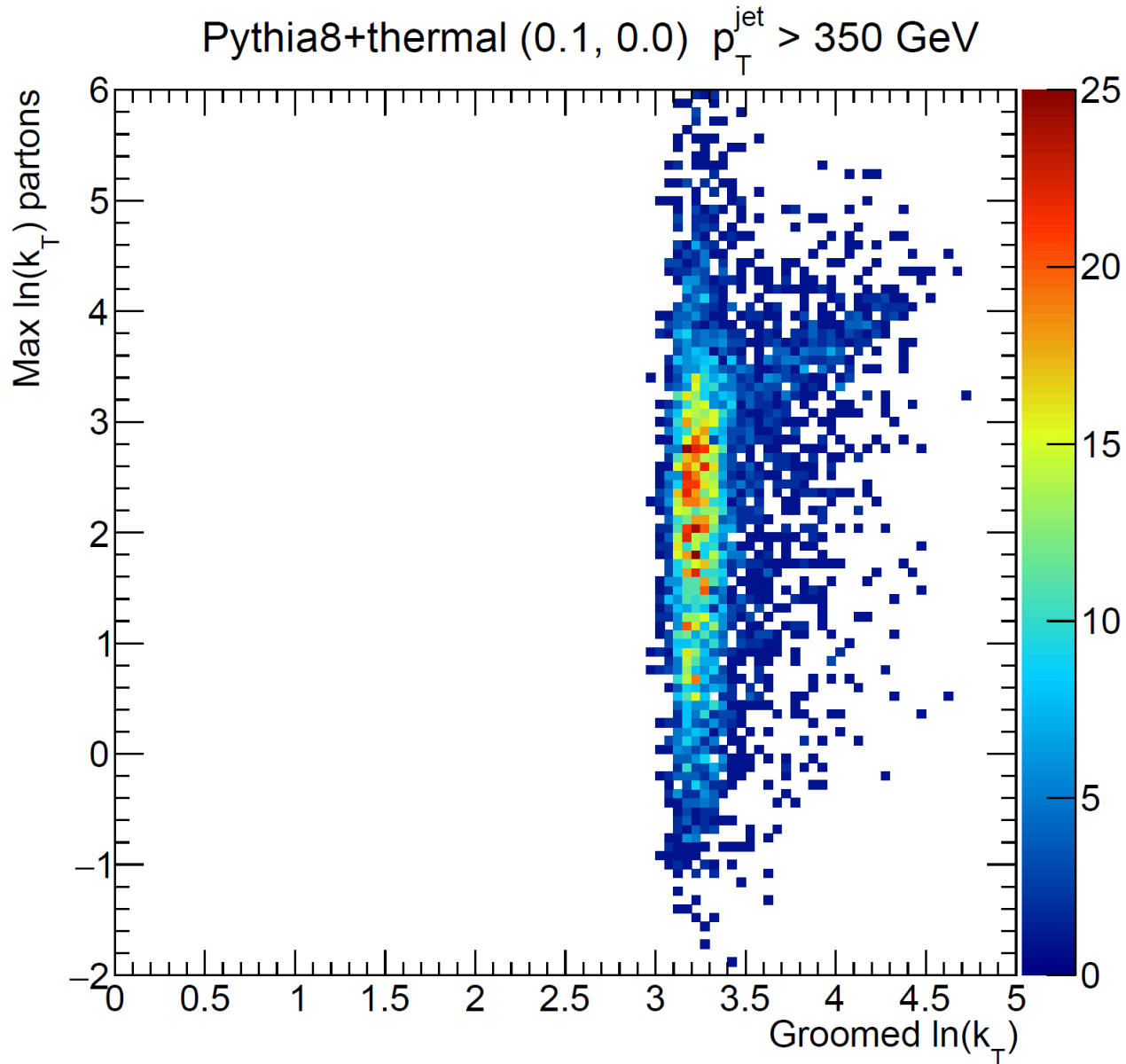
Without background sub



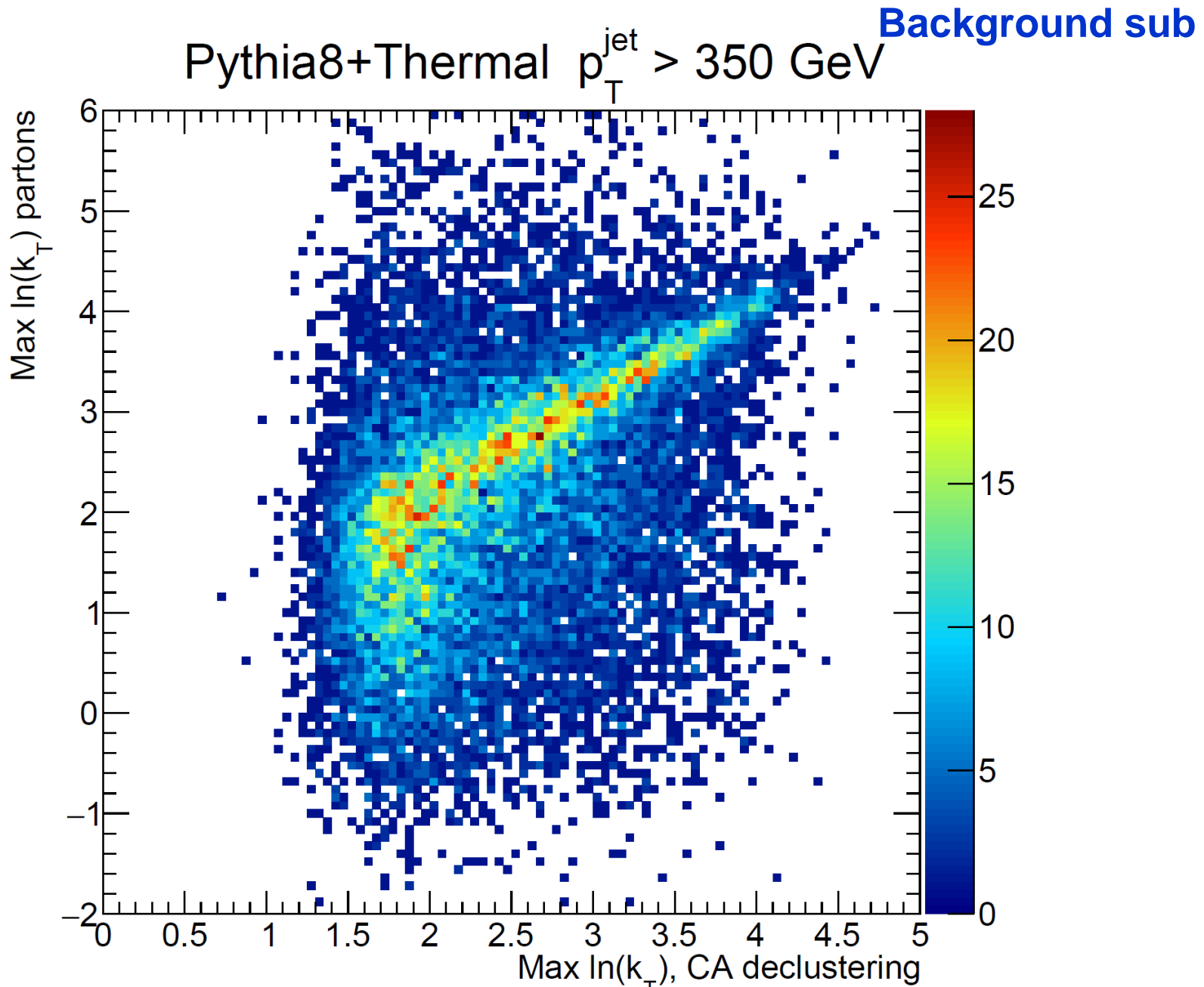
Groomed Jet (CA) PYTHIA+Thermal Background (PbPb 5 TeV 0-10%)

Zcut (0.1,0)

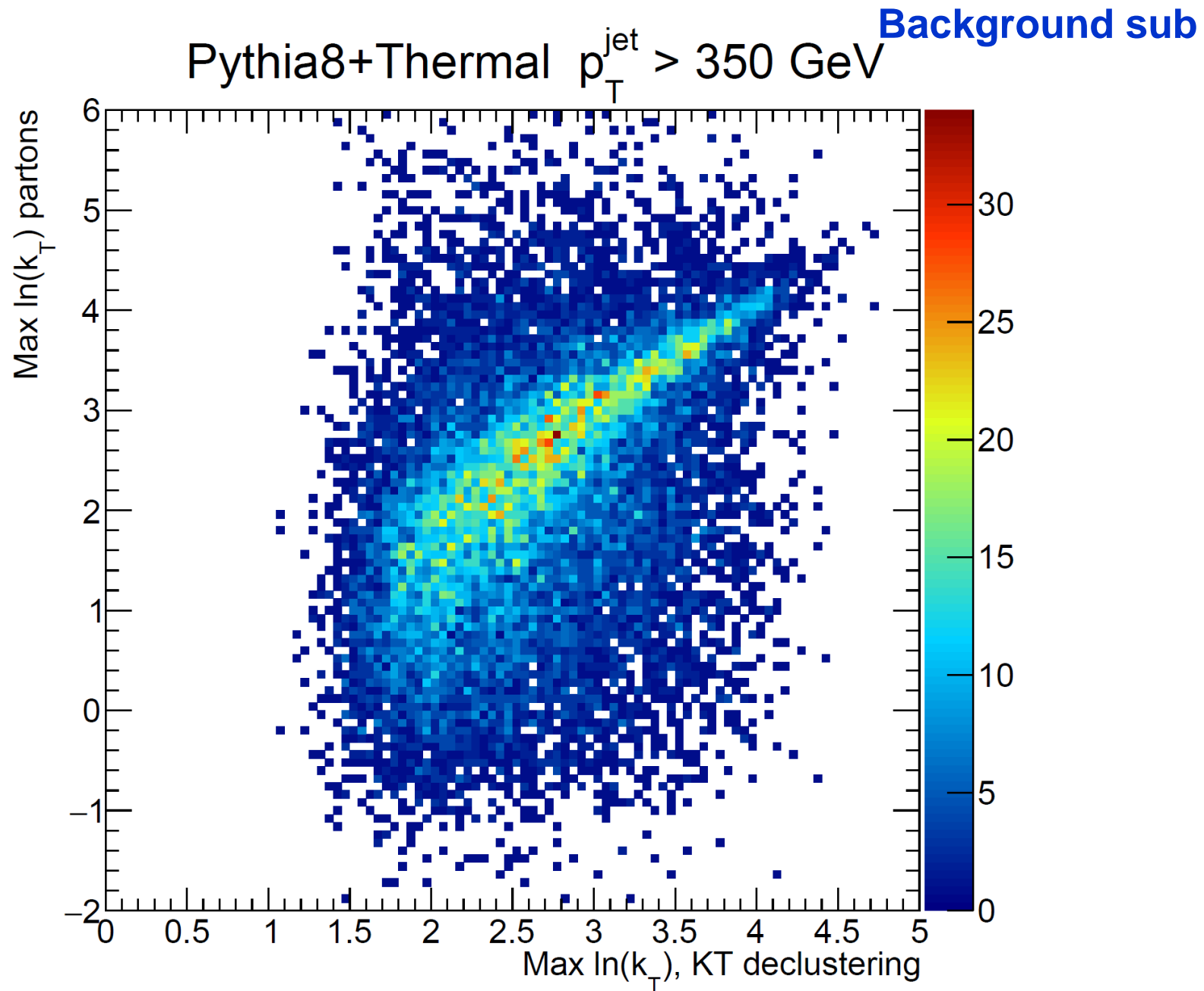
Without background sub



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



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

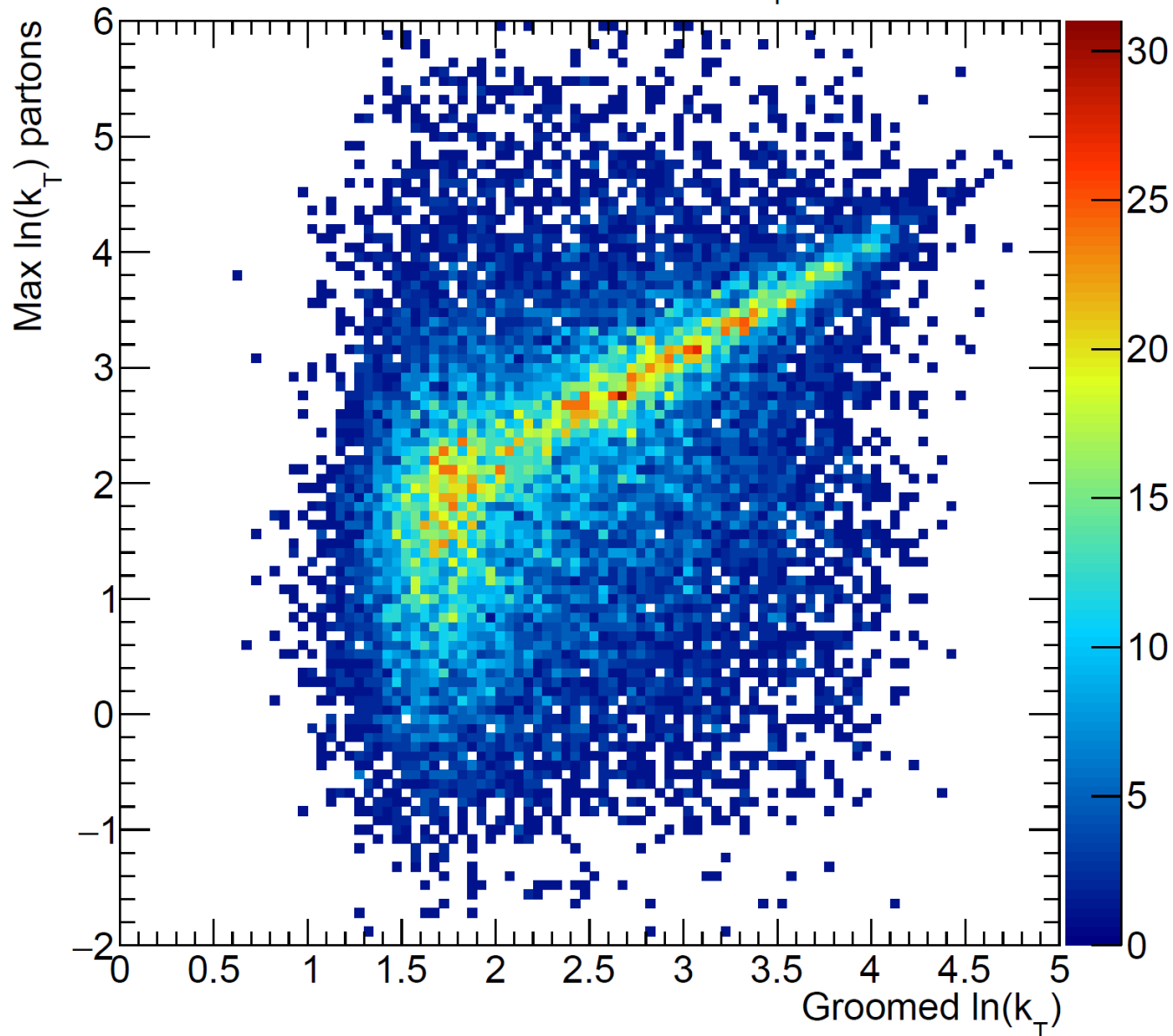


Groomed Jet (CA) PYTHIA+Thermal Background (PbPb 5 TeV 0-10%)

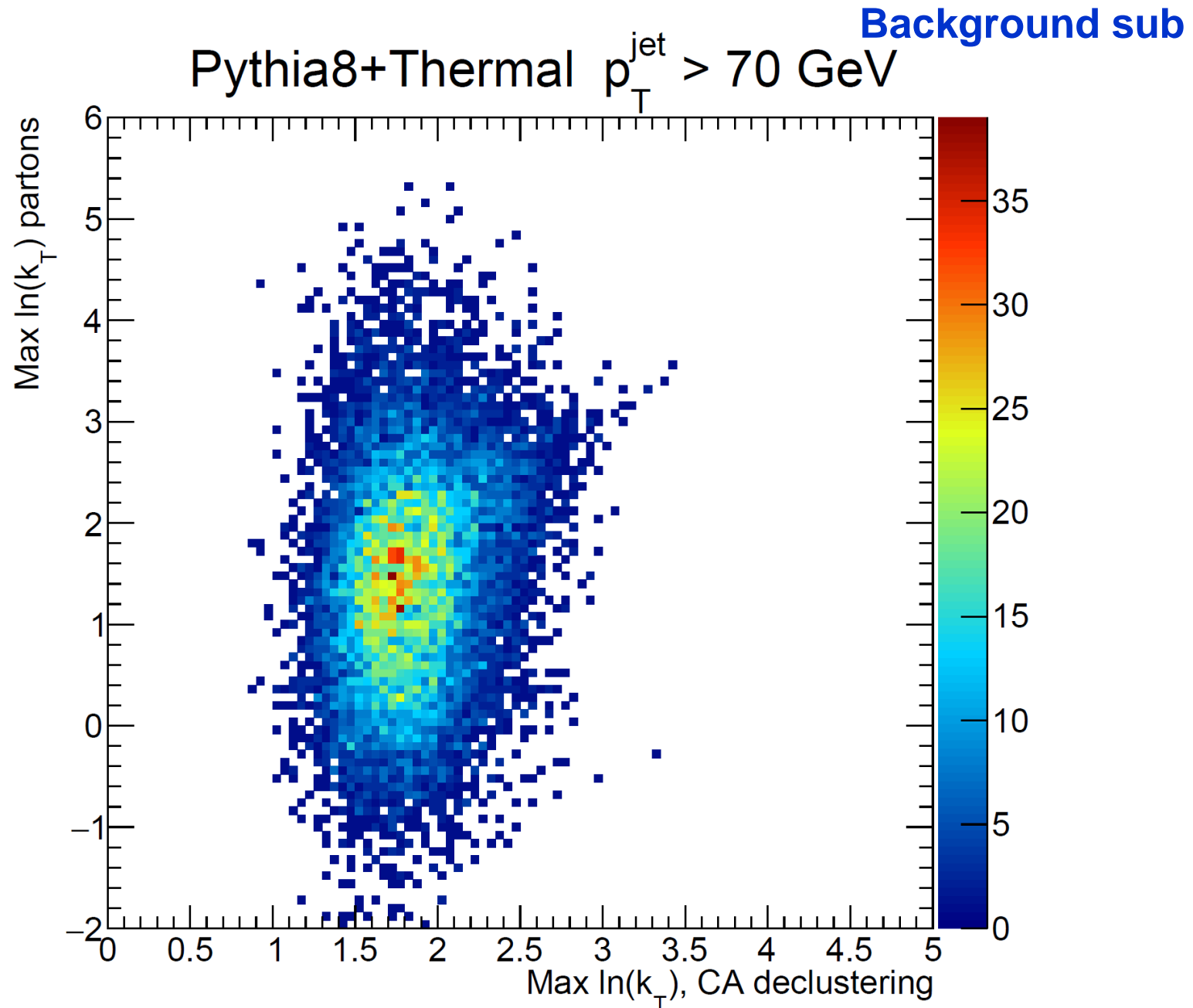
Zcut (0.1,0)

Background sub

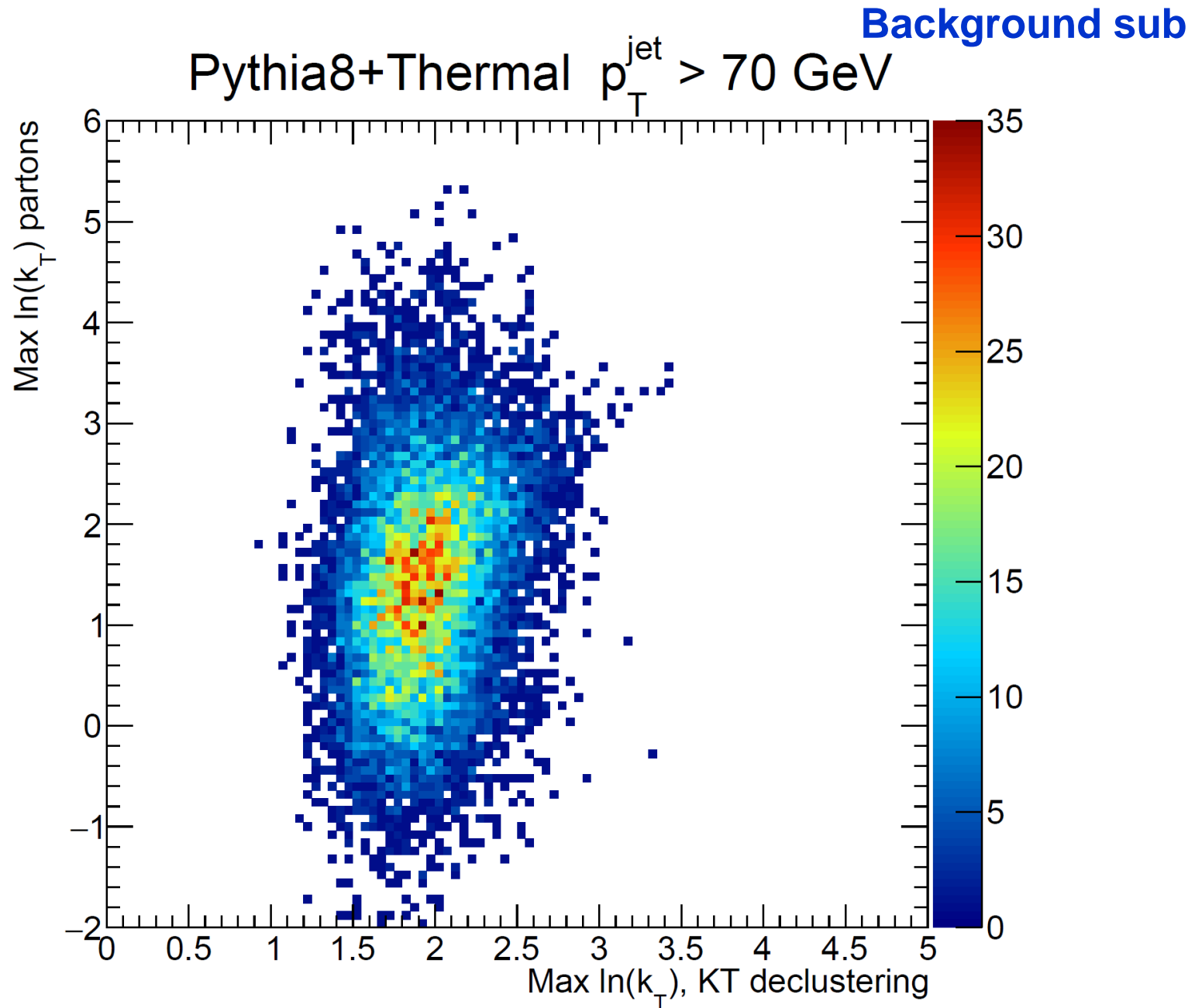
Pythia8+Thermal (0.1, 0.0) $p_T^{\text{jet}} > 350$ GeV



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



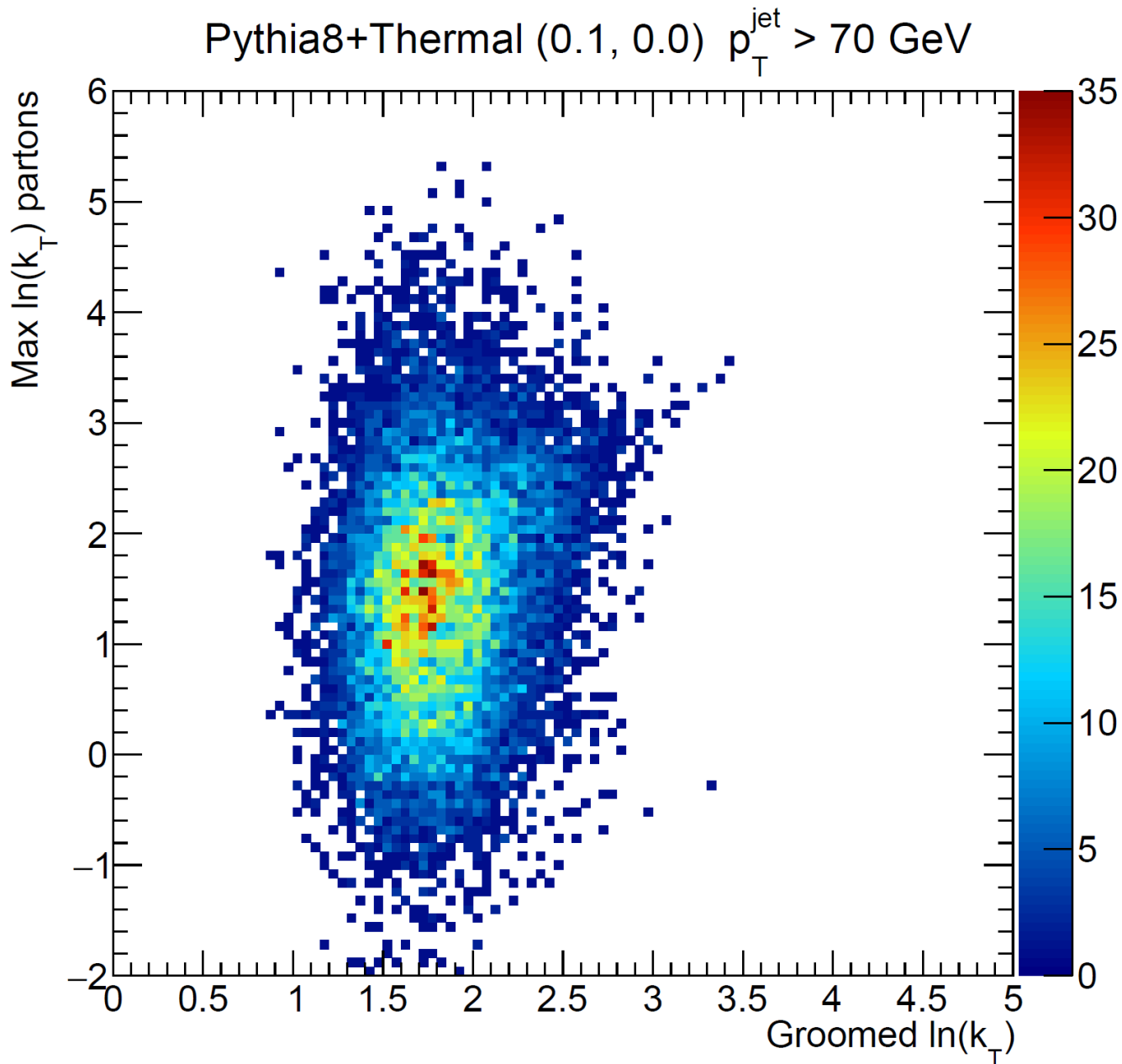
Jet (KT) PYTHIA+Thermal Background (PbPb 5 TeV 0-10%) Low p_T Jet



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

Zcut (0.1,0)

Background sub

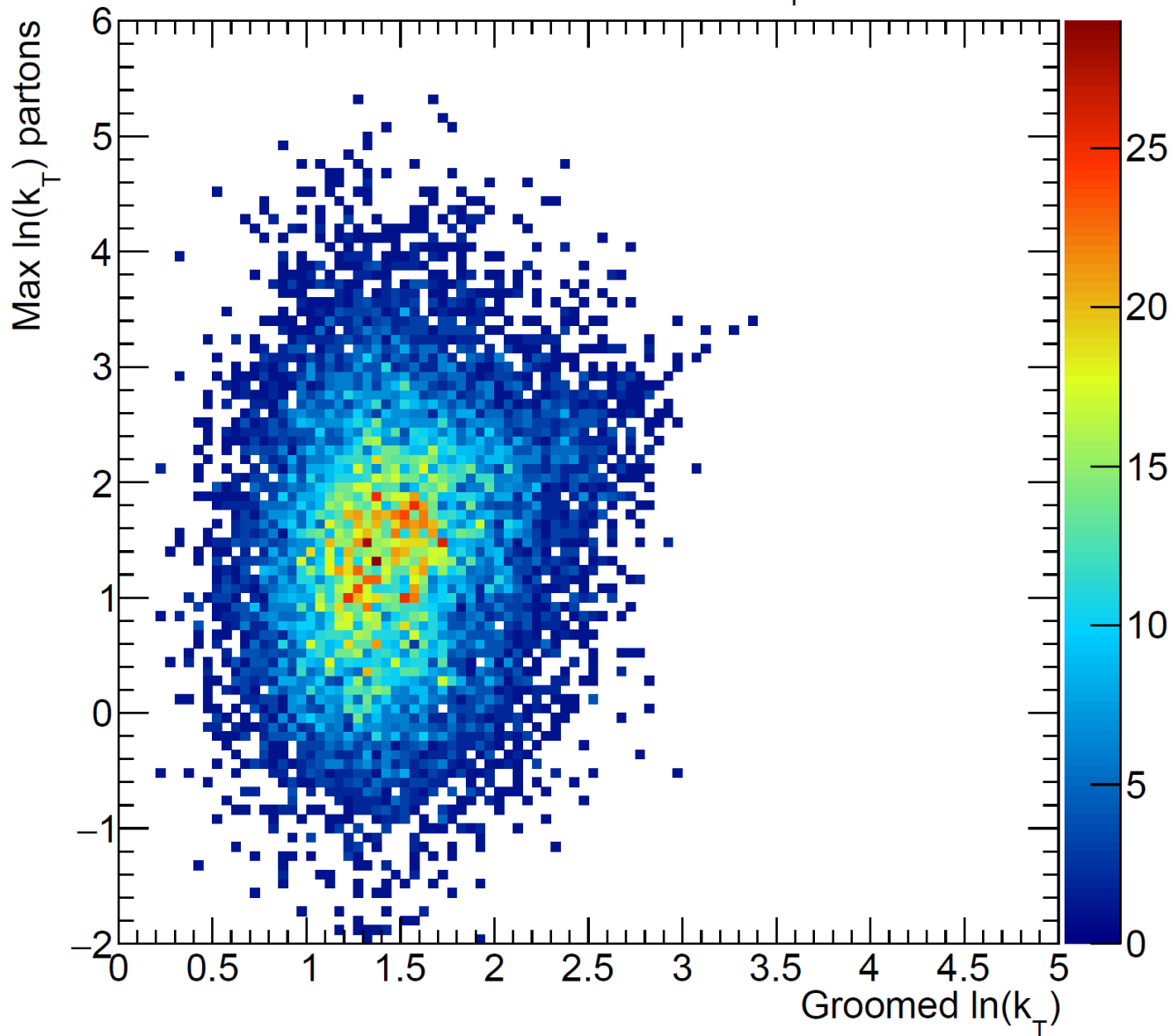


Groomed Jet (CA) PYTHIA+Thermal Background (PbPb 5 TeV 0-10%)

Zcut (0.5, 1.5)

Pythia8+Thermal (0.5, 1.5) $p_T^{\text{jet}} > 70 \text{ GeV}$

Background sub

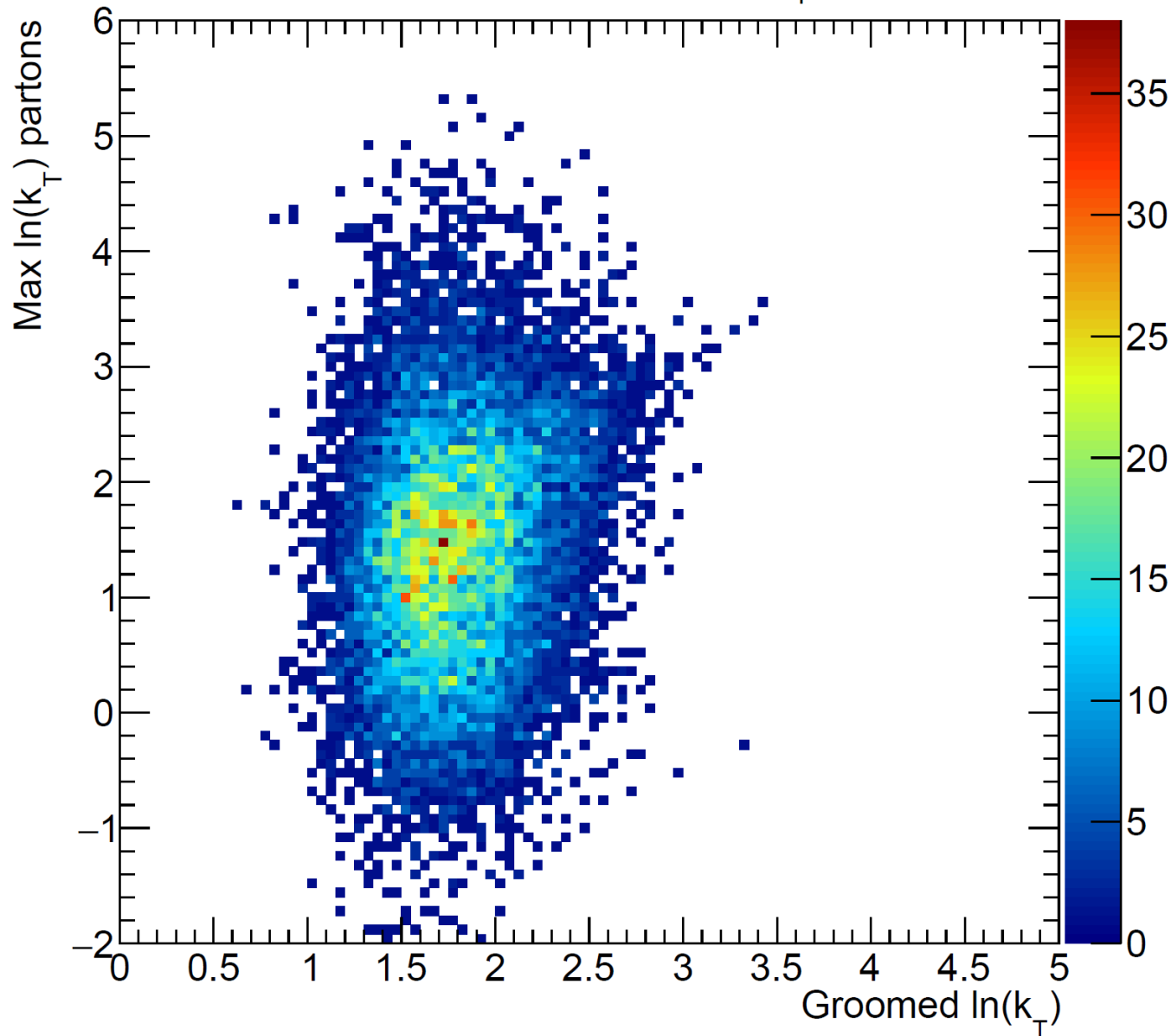


Groomed Jet (CA) PYTHIA+Thermal Background (PbPb 5 TeV 0-10%) Low p_T Jet

Zcut (0.25, 0.0)

Pythia8+Thermal (0.25, 0.0) $p_T^{\text{jet}} > 70 \text{ GeV}$

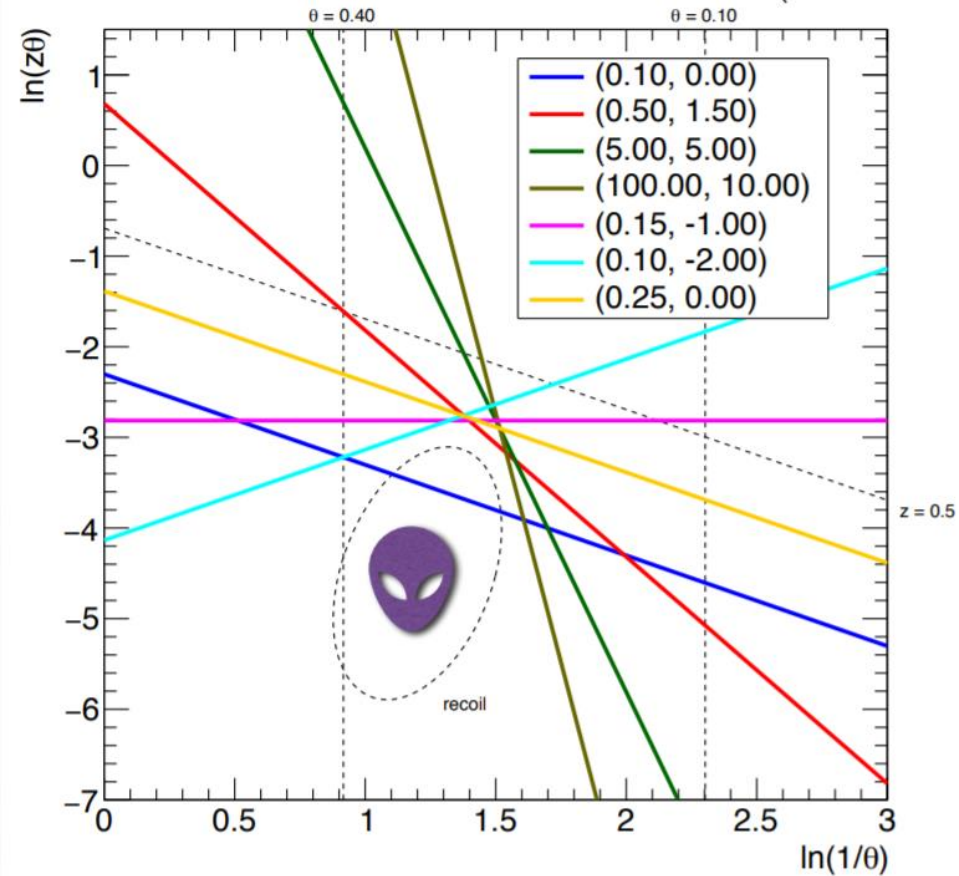
Background sub



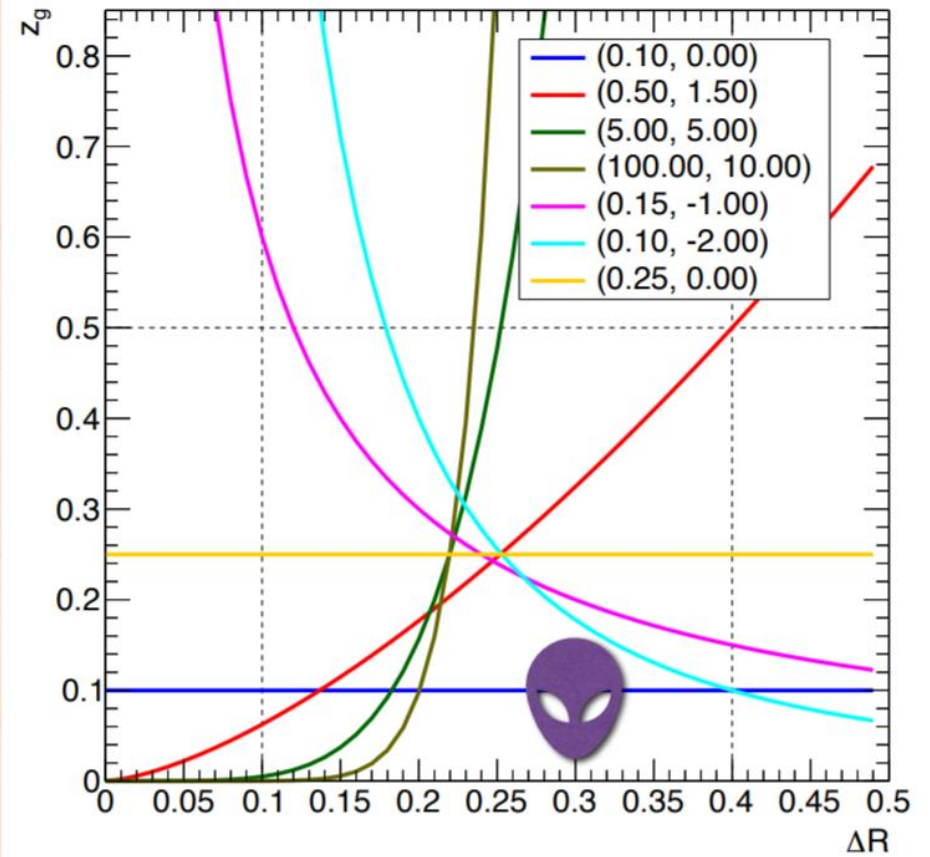
Previous Report

Softdrop

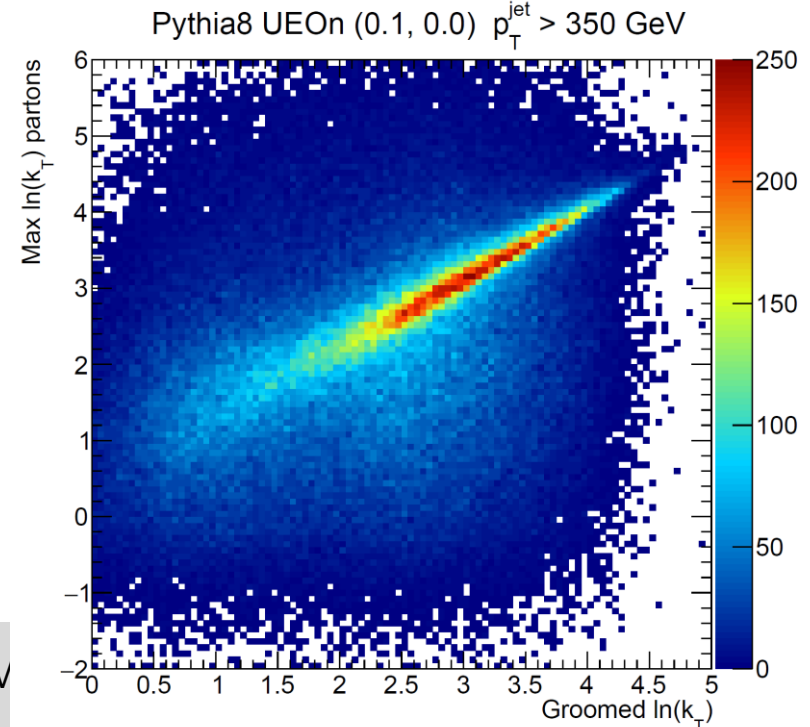
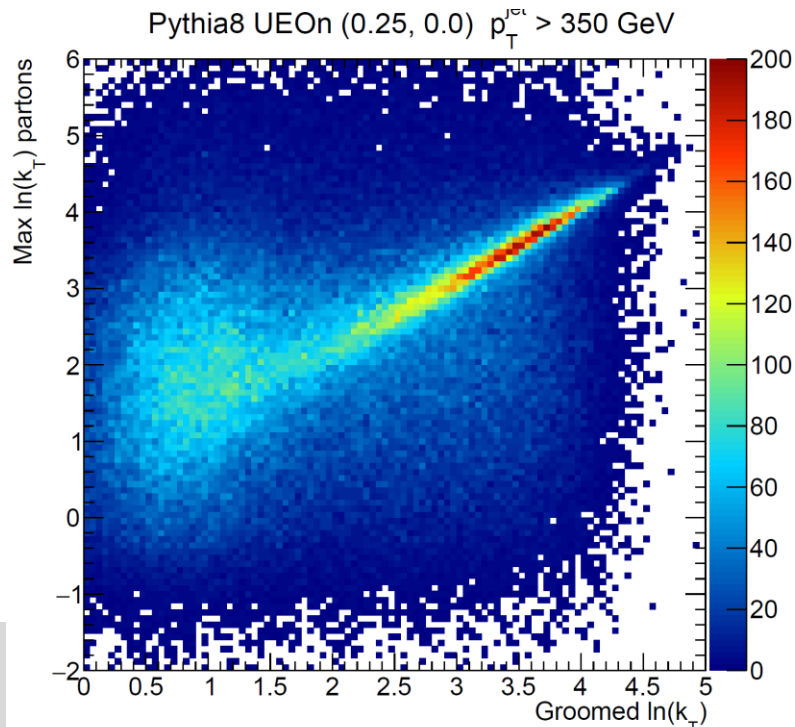
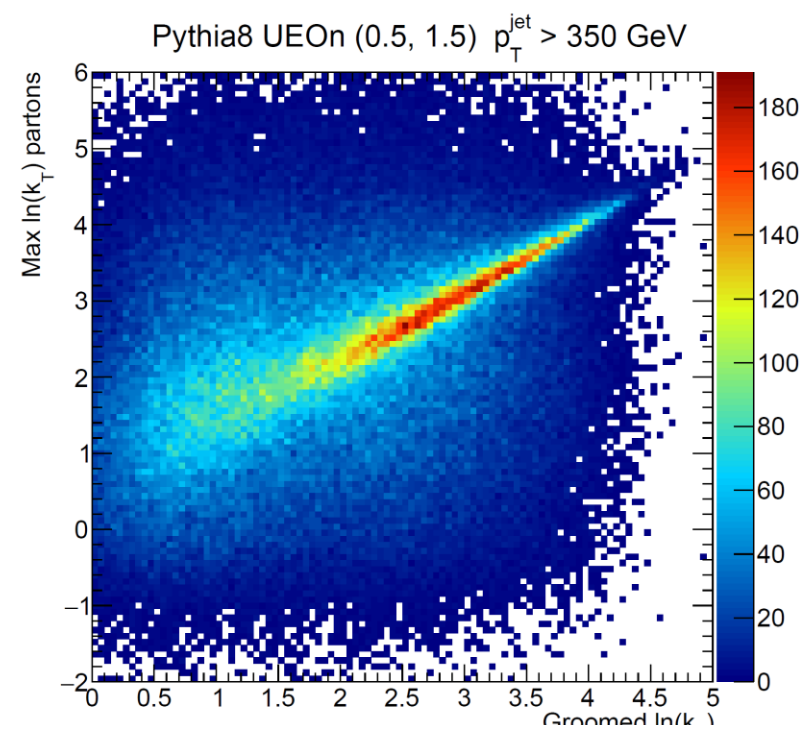
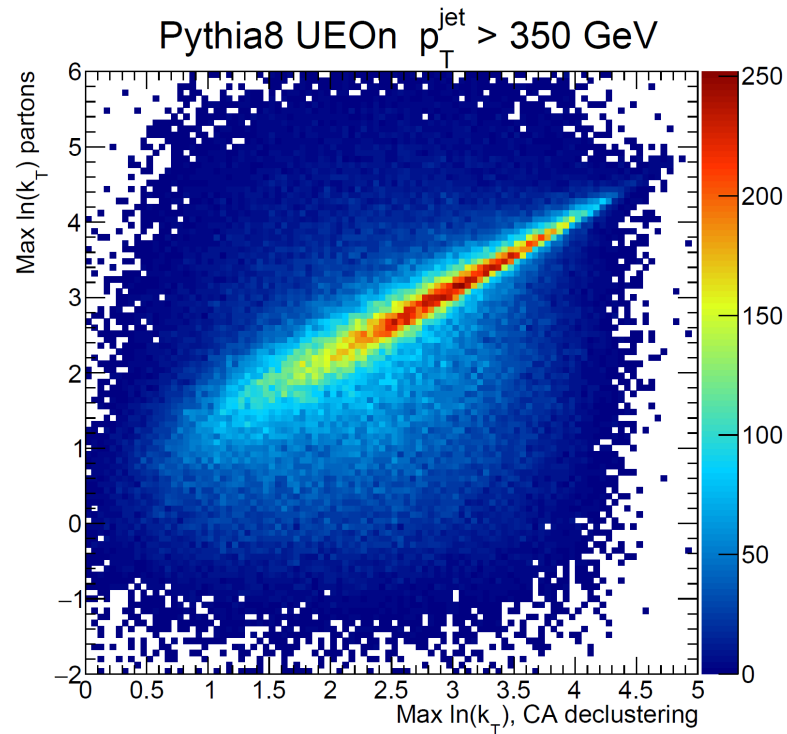
(theorist view)



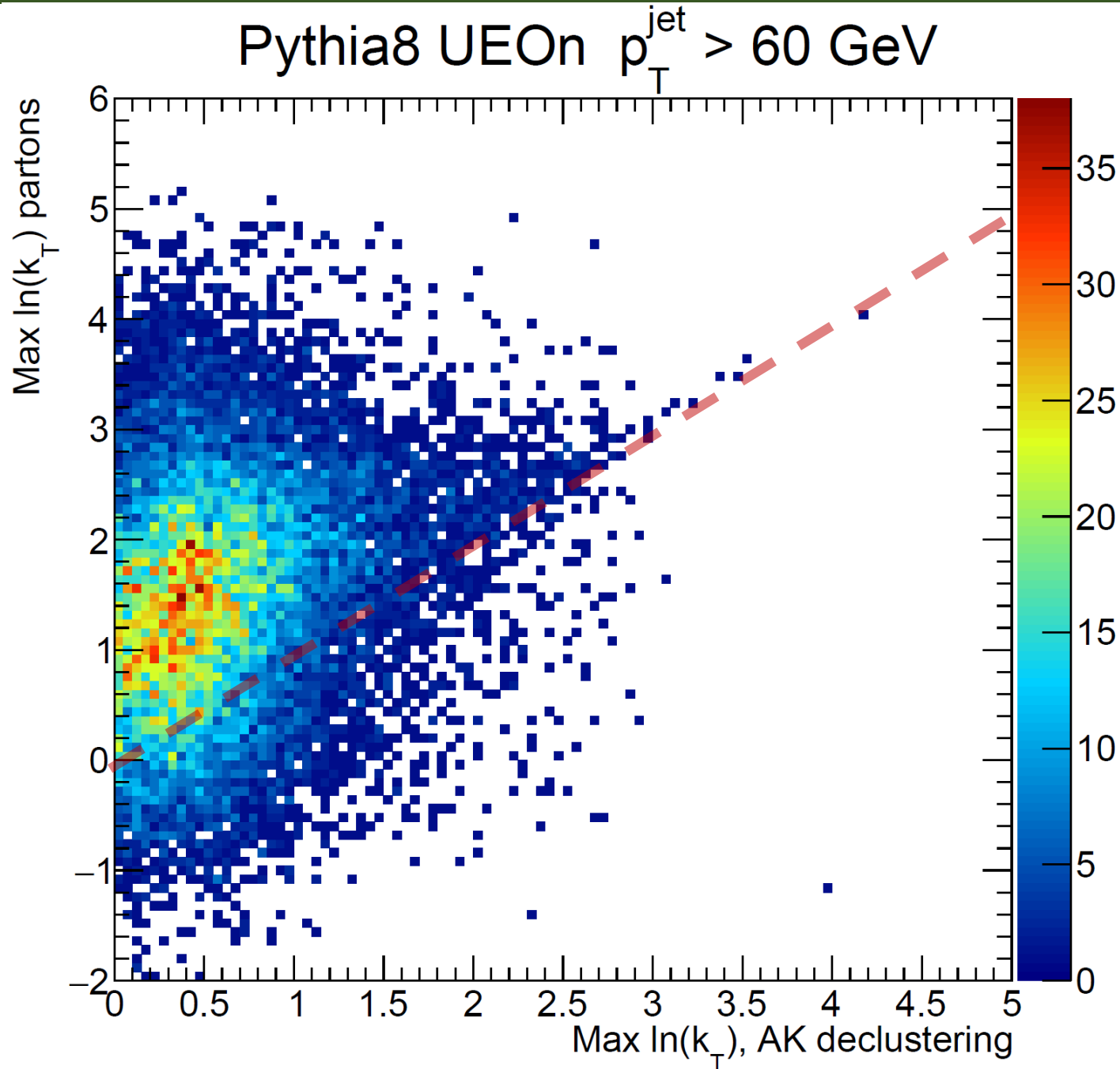
(experimentalist view)



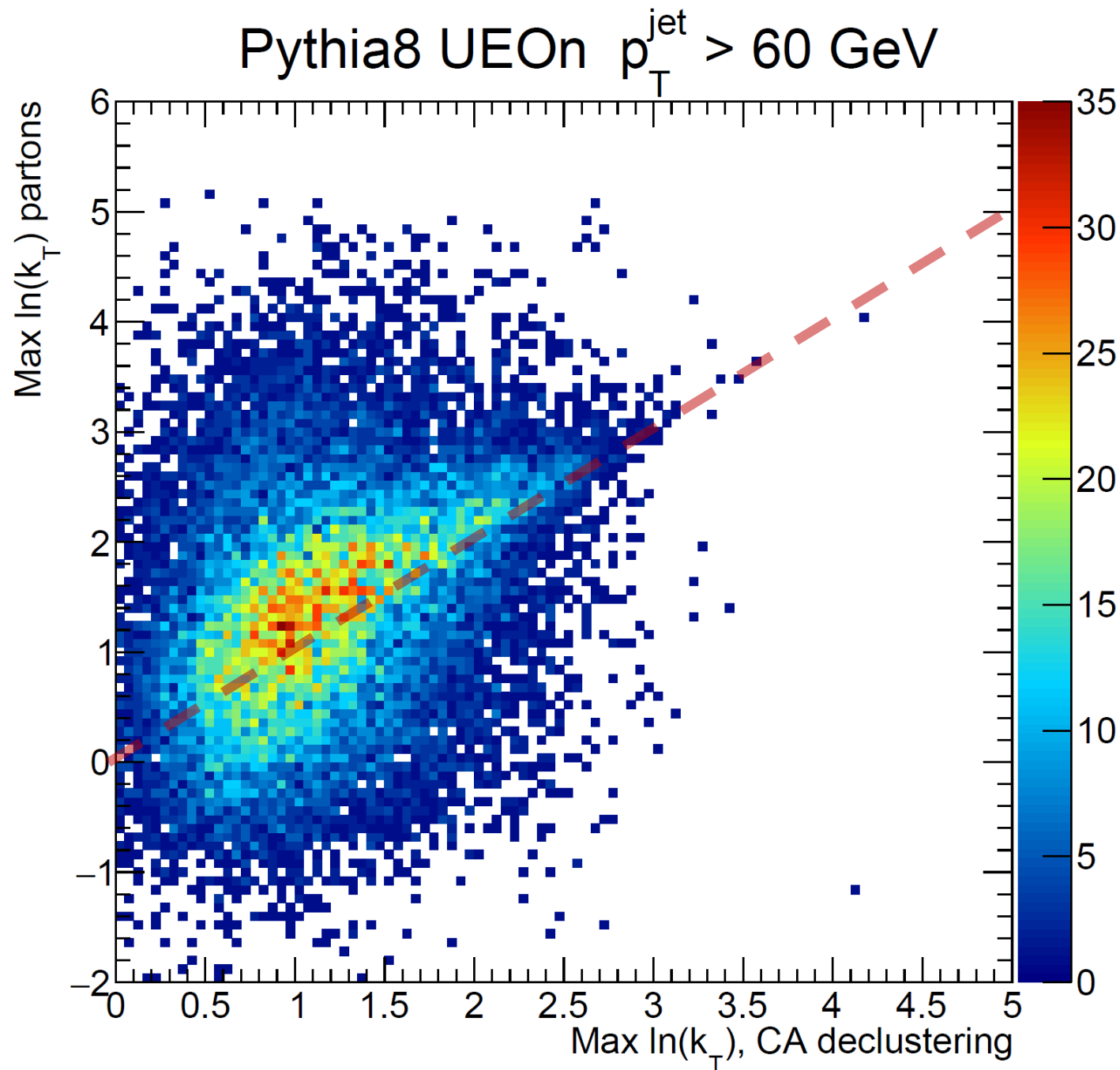
Performance with $\hat{p}_T > 300$ GeV



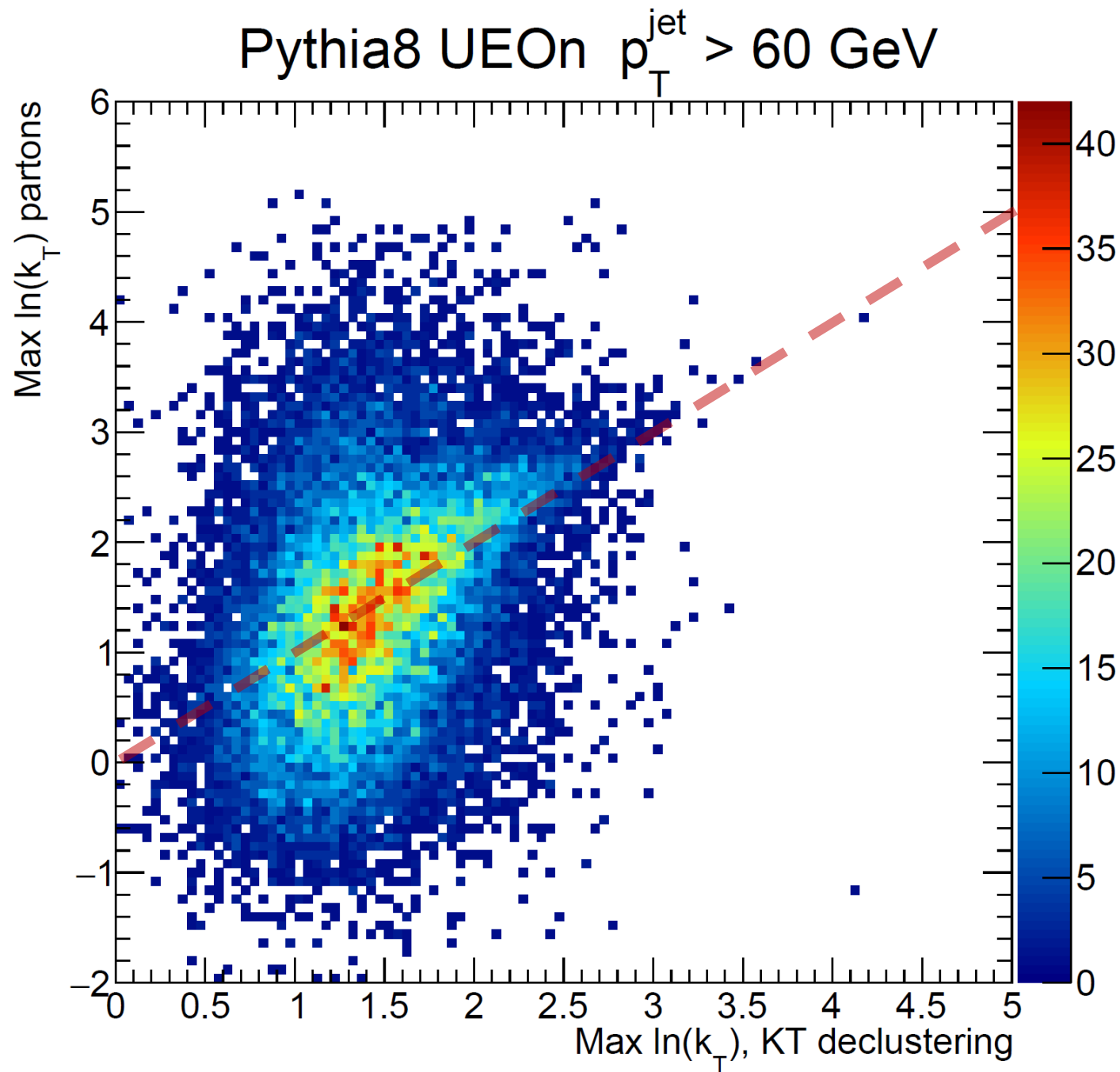
Performance with $\hat{p}_T > 50$ GeV, Anti-KT



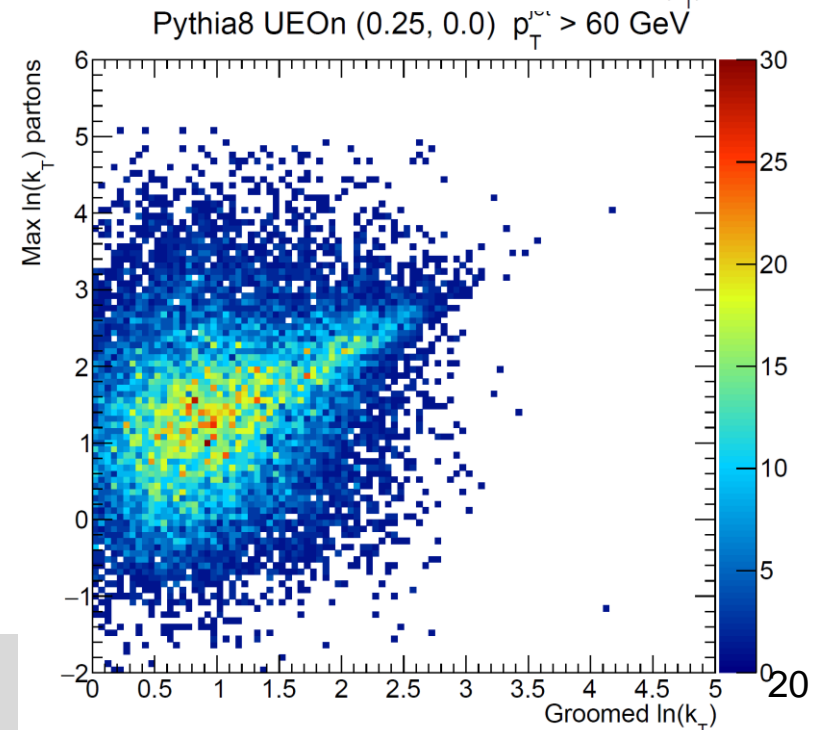
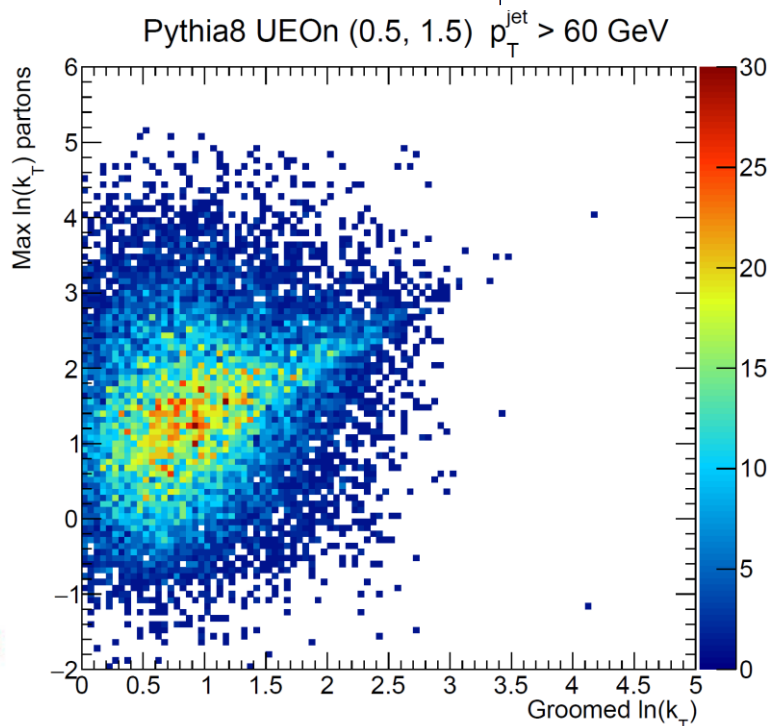
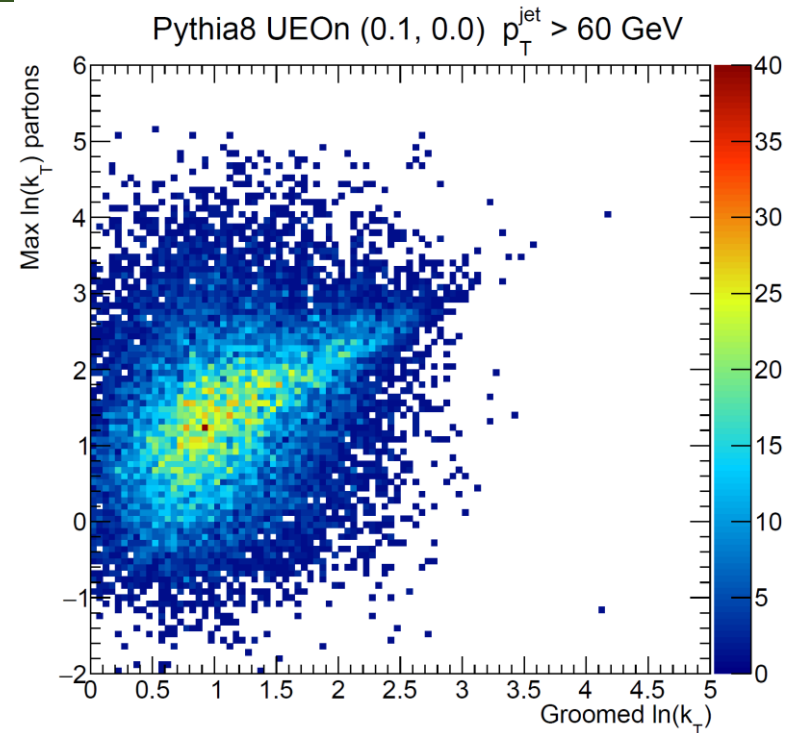
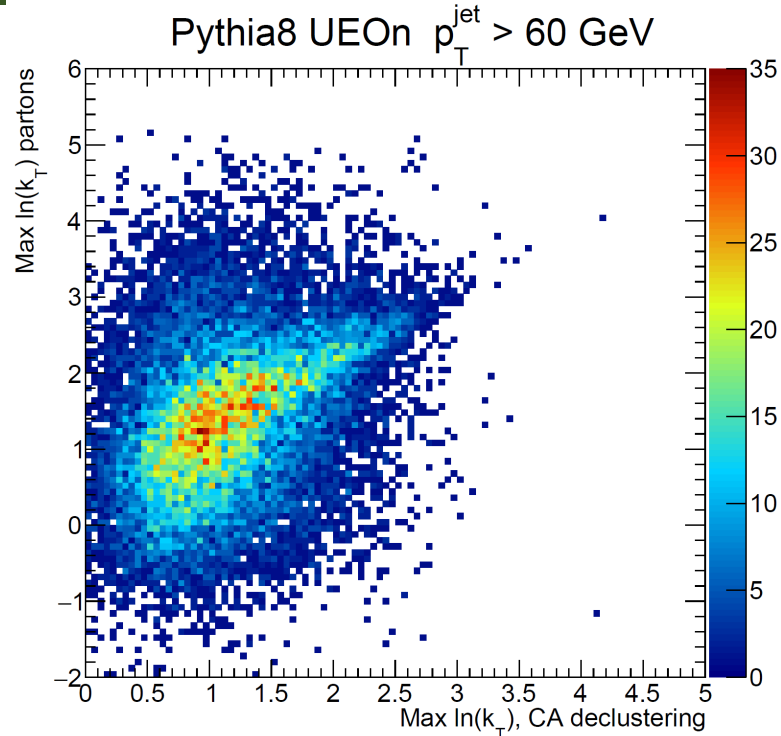
Performance with $\hat{p}_T > 50$ GeV, CA



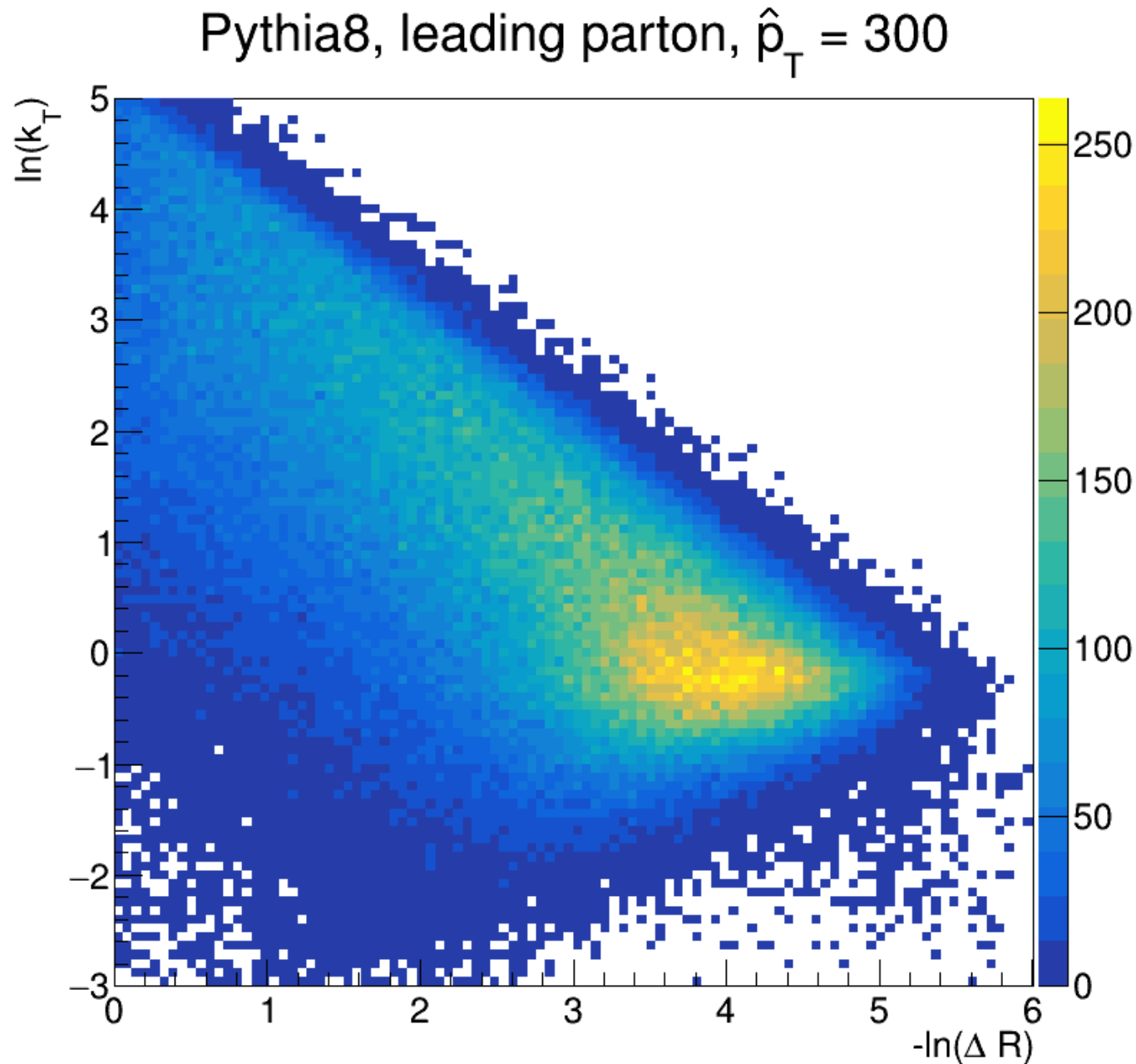
Performance with $\hat{p}_T > 50$ GeV, KT



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

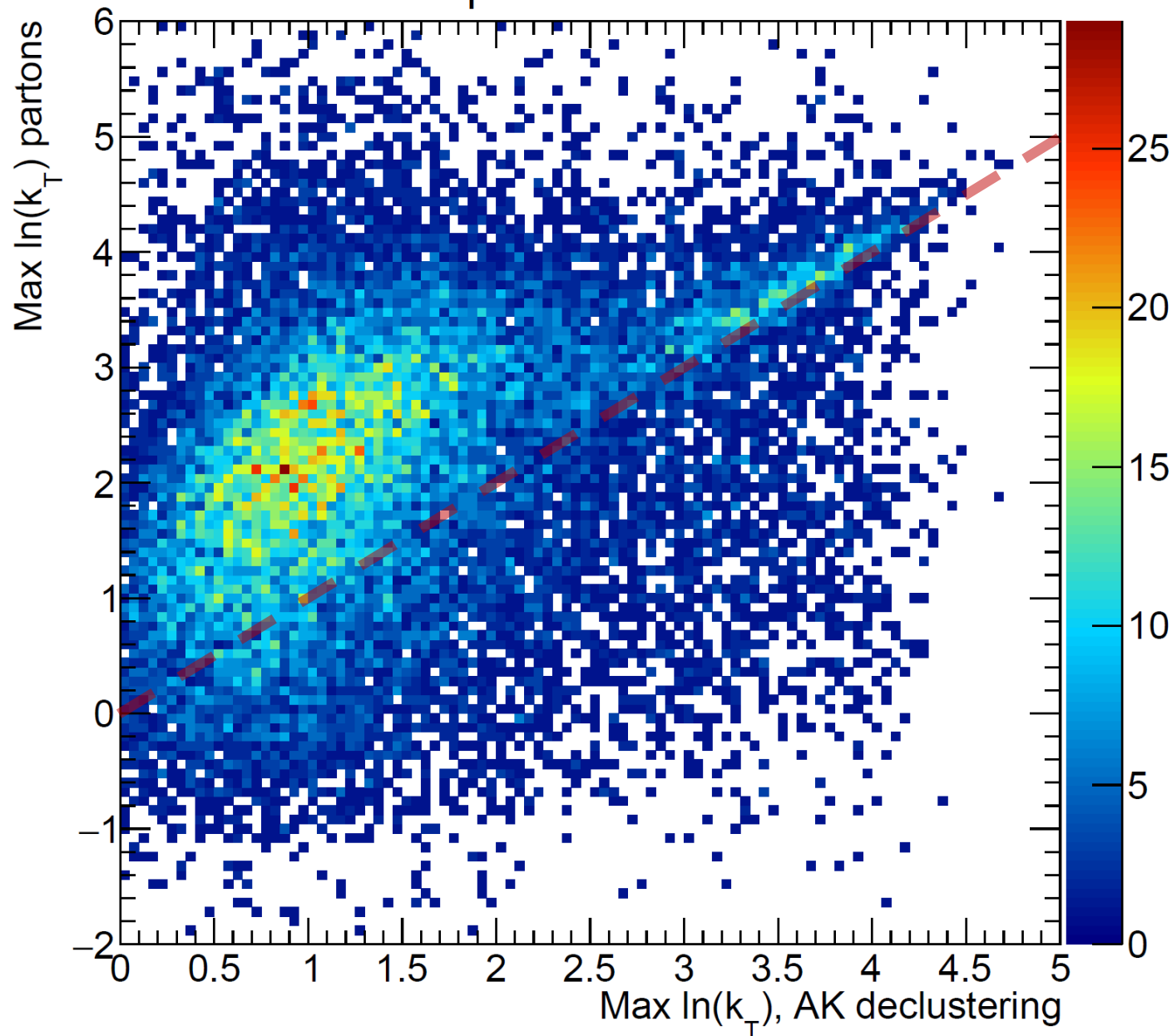


Lund Diagram from Parton Shower



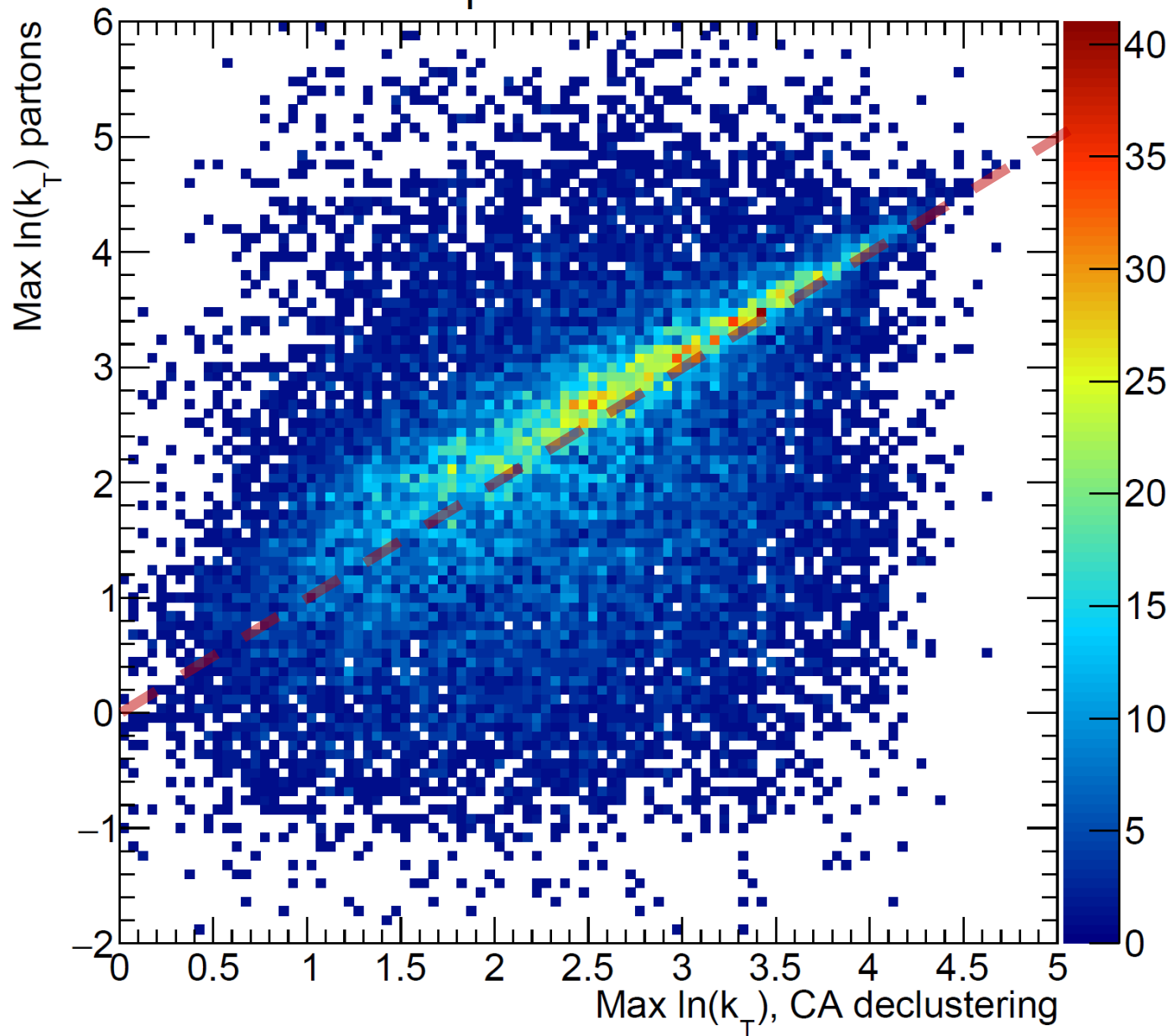
PYTHIA $\hat{p}_T > 300$ GeV, Anti-KT

$p_T^{\text{jet}} > 350$ GeV



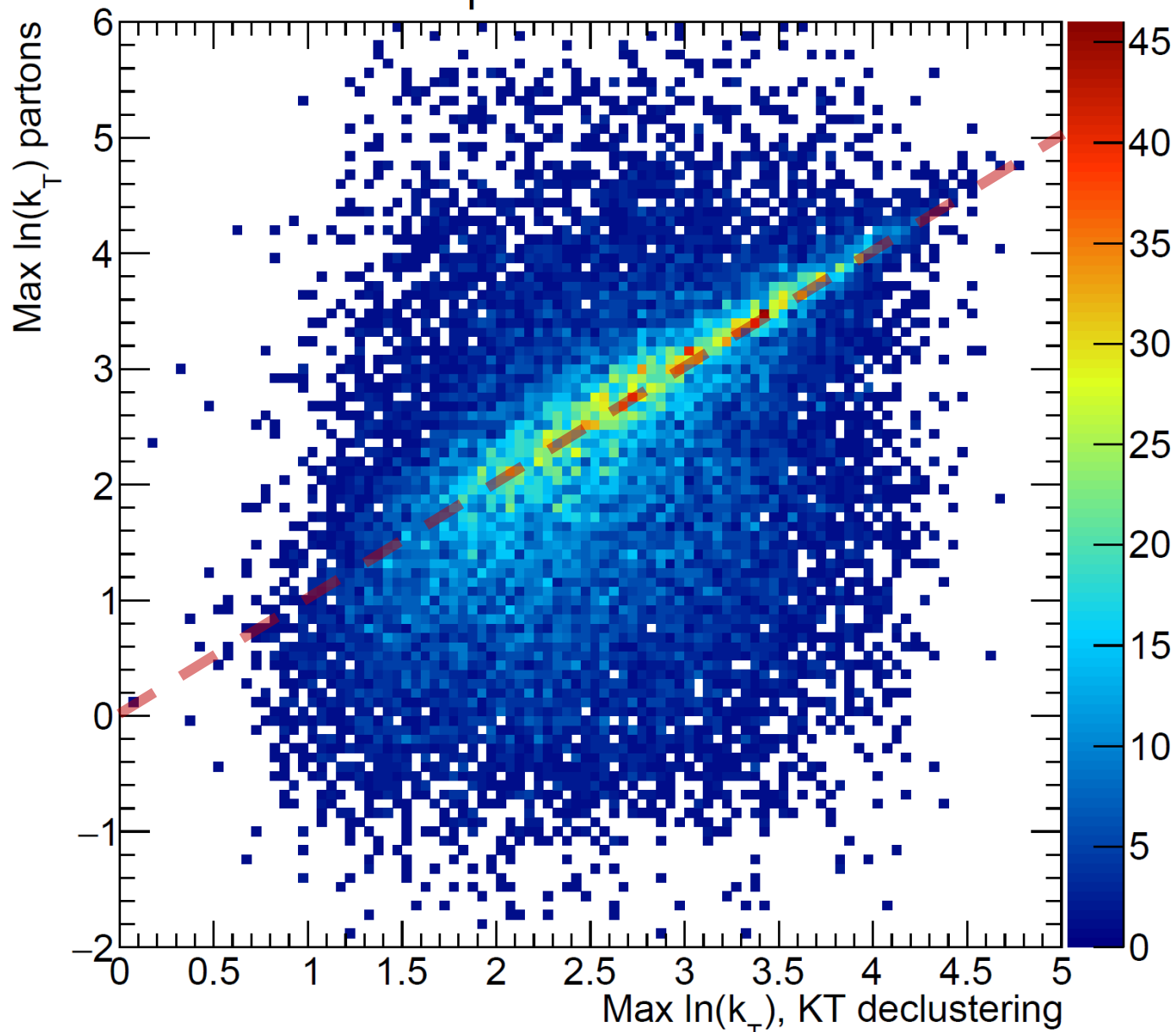
PYTHIA $\hat{p}_T > 300$ GeV, CA

$p_T^{\text{jet}} > 350$ GeV



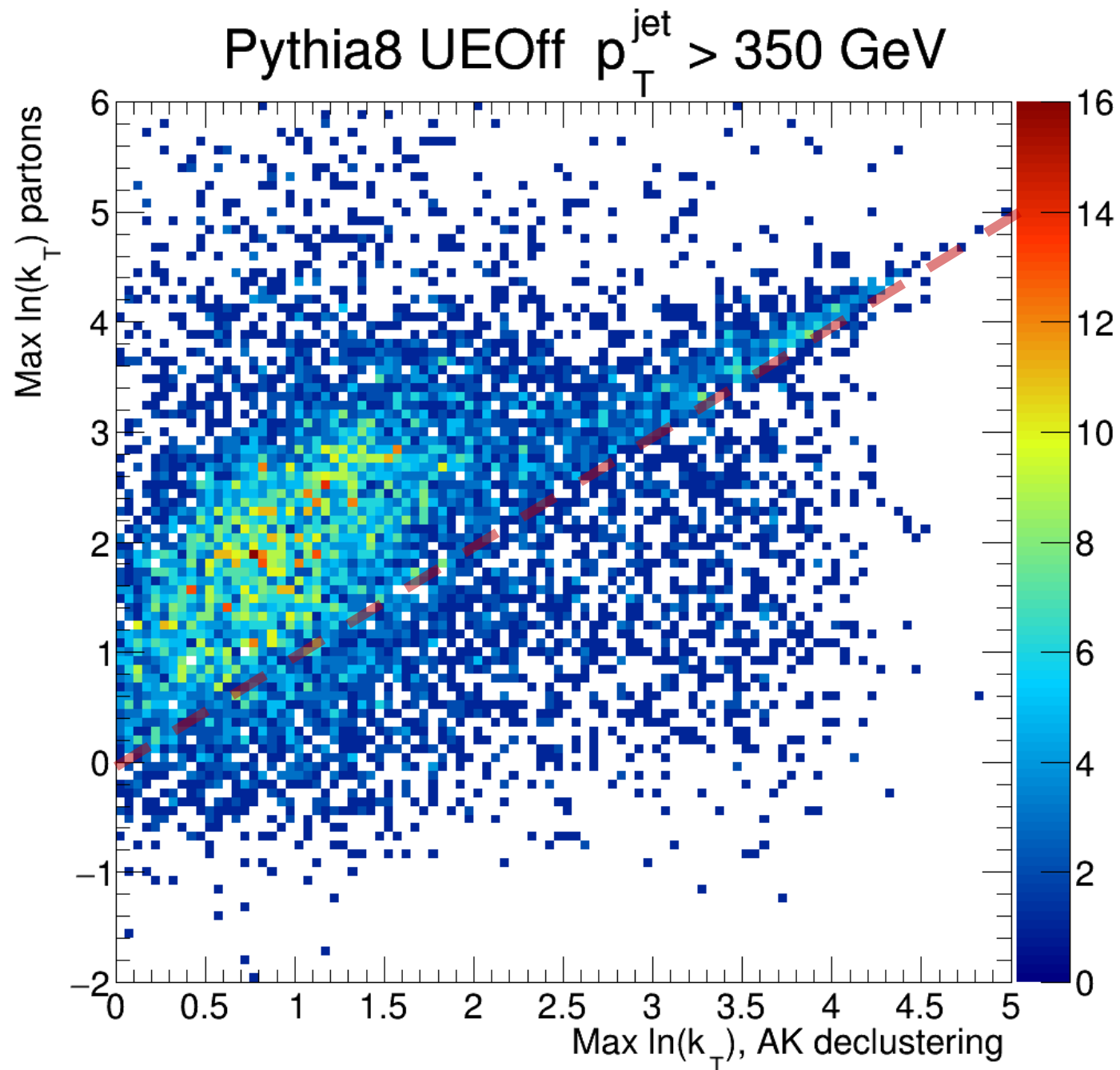
PYTHIA $\hat{p}_T > 300$ GeV, KT

$p_T^{\text{jet}} > 350$ GeV

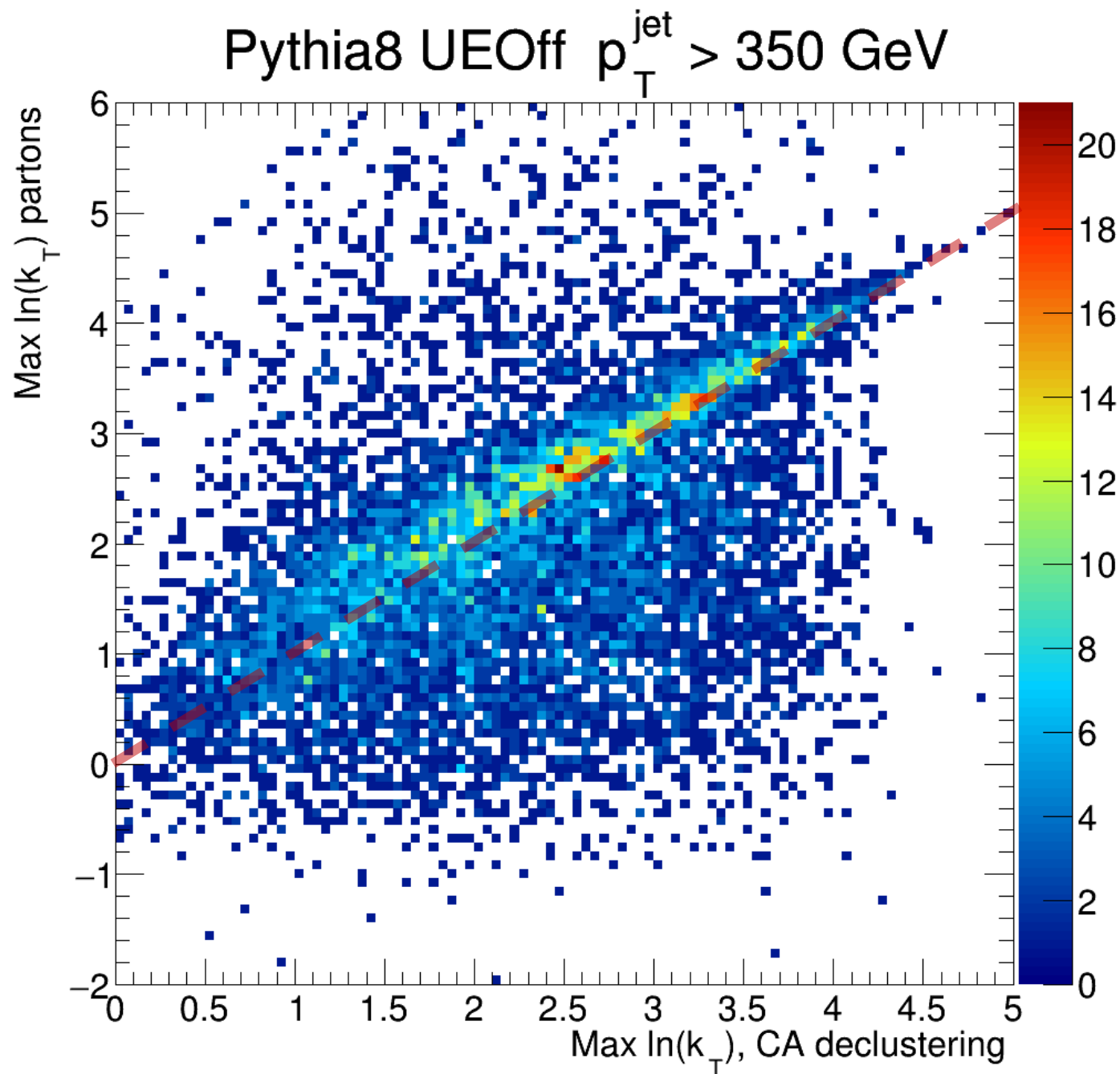


UE Off

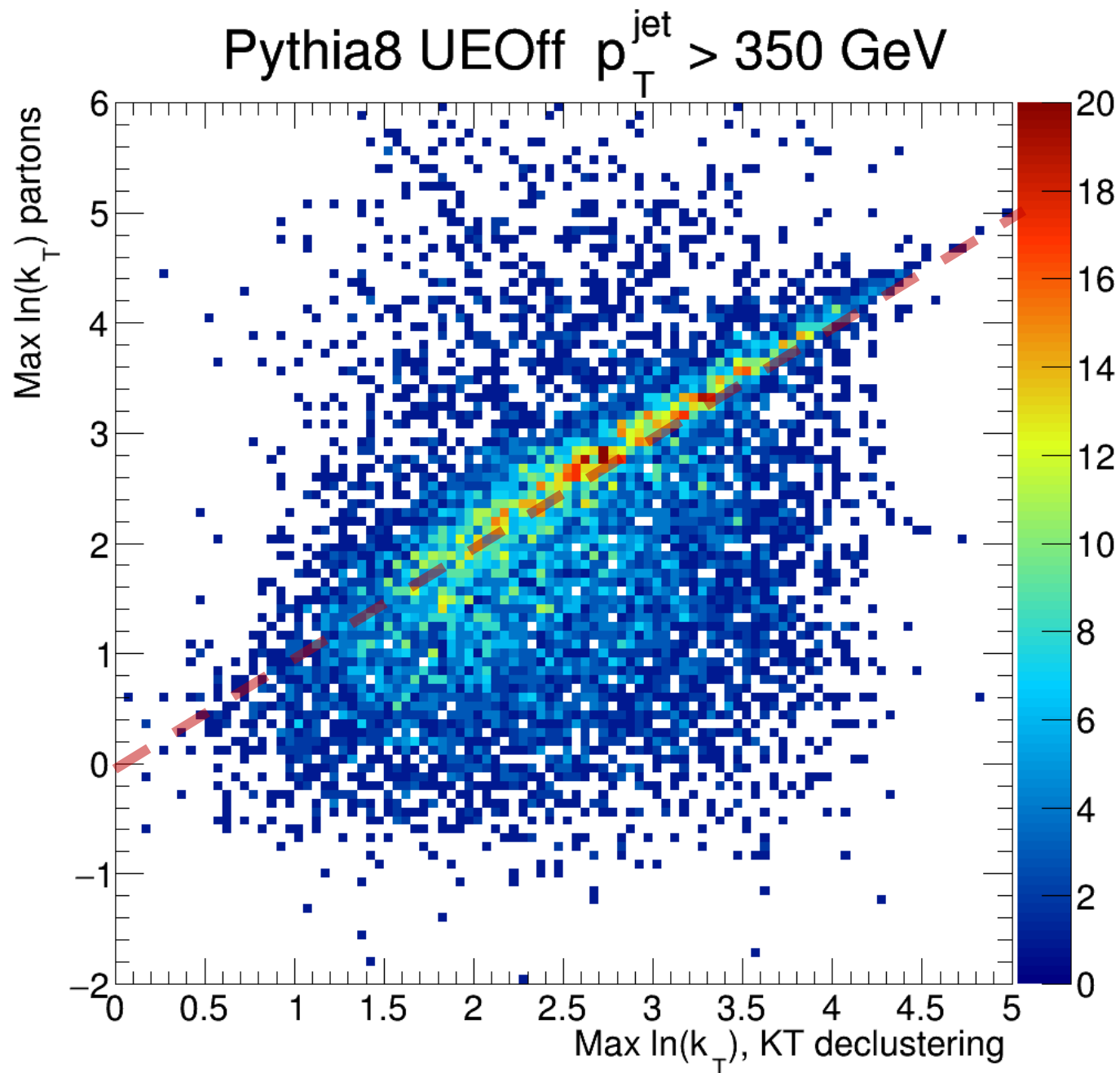
PYTHIA $\hat{p}_T > 300$ GeV, Anti-KT



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

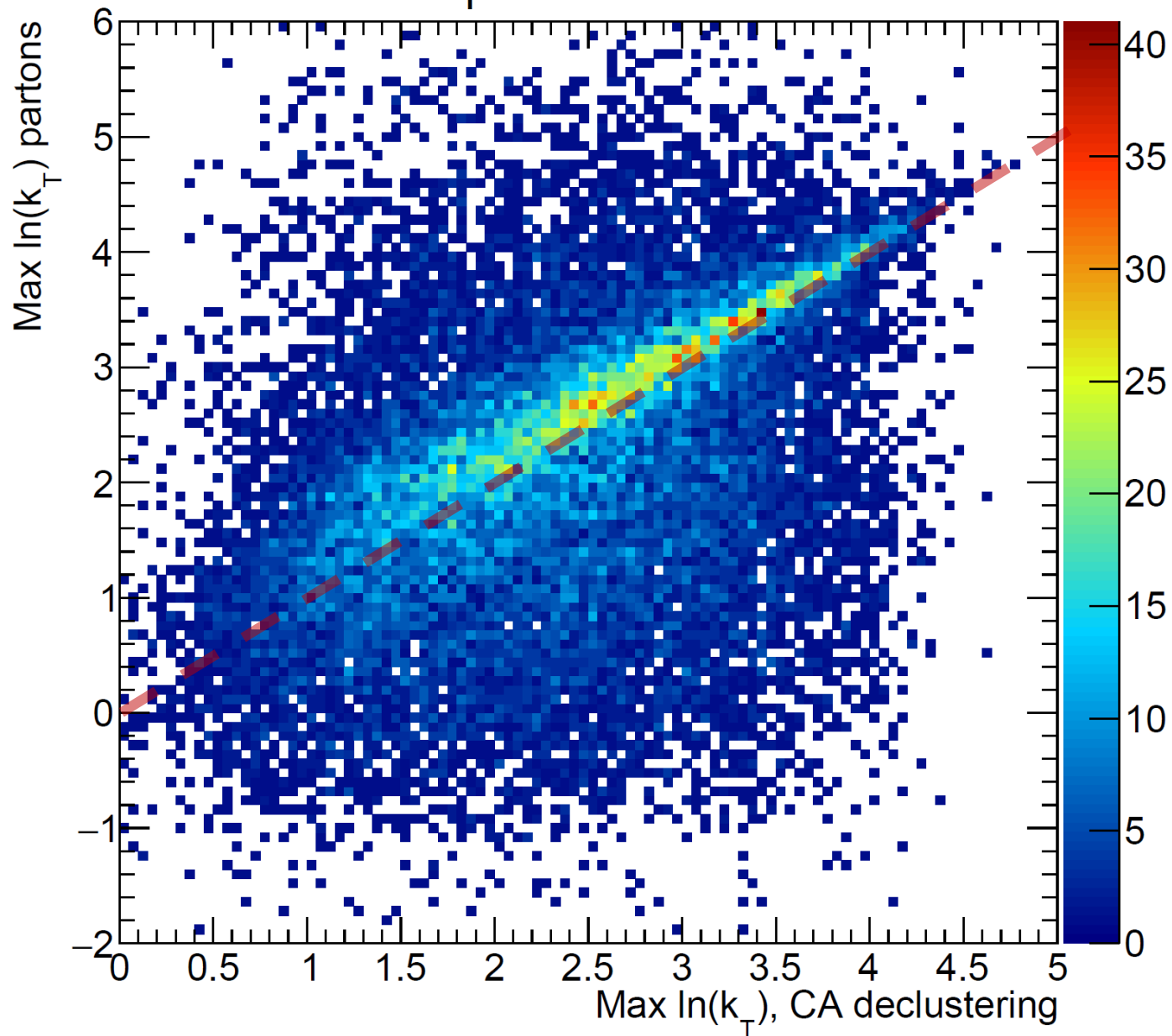


PYTHIA $\hat{p}_T > 300$ GeV, KT



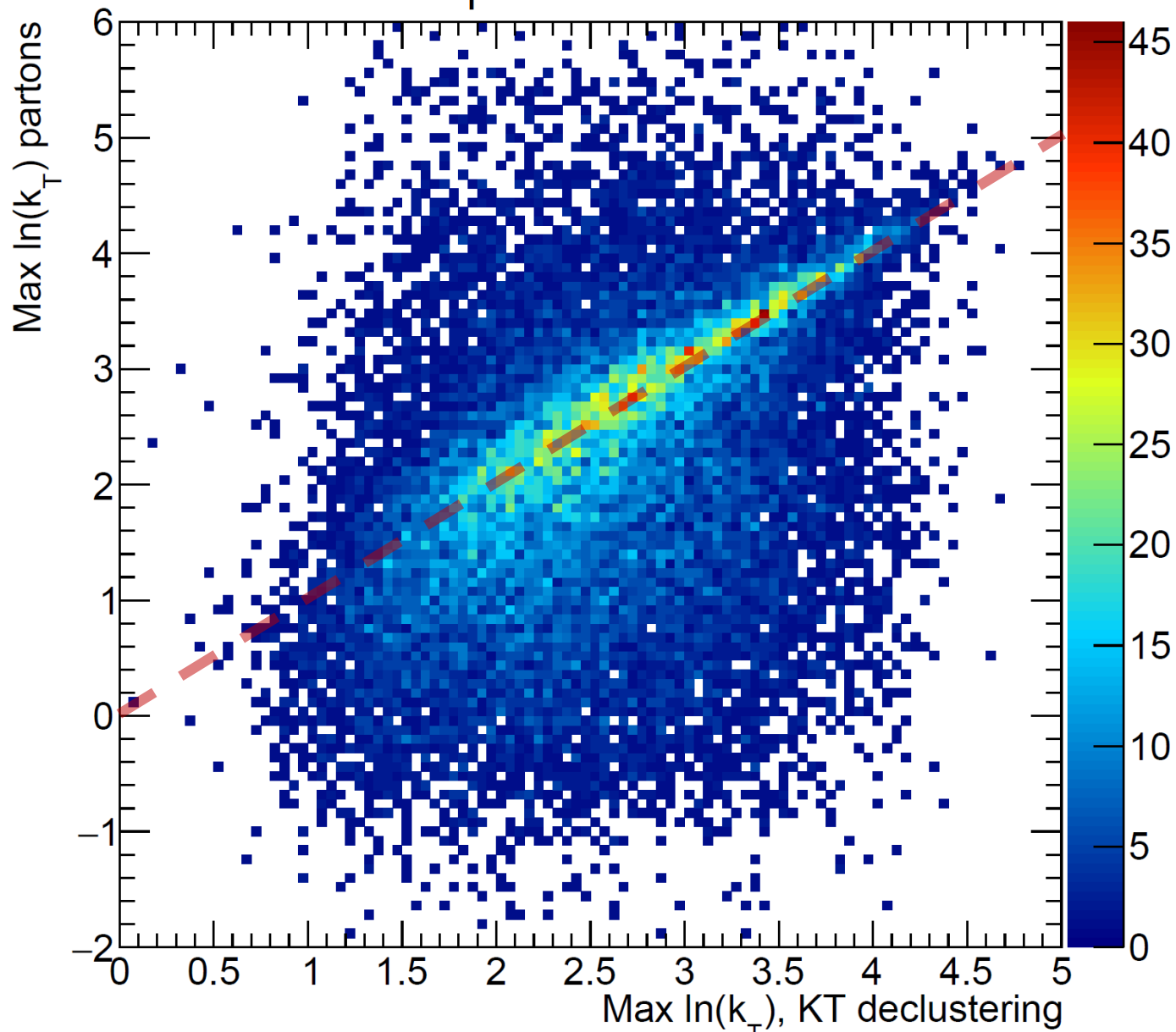
PYTHIA $\hat{p}_T > 300$ GeV, CA

$p_T^{\text{jet}} > 350$ GeV



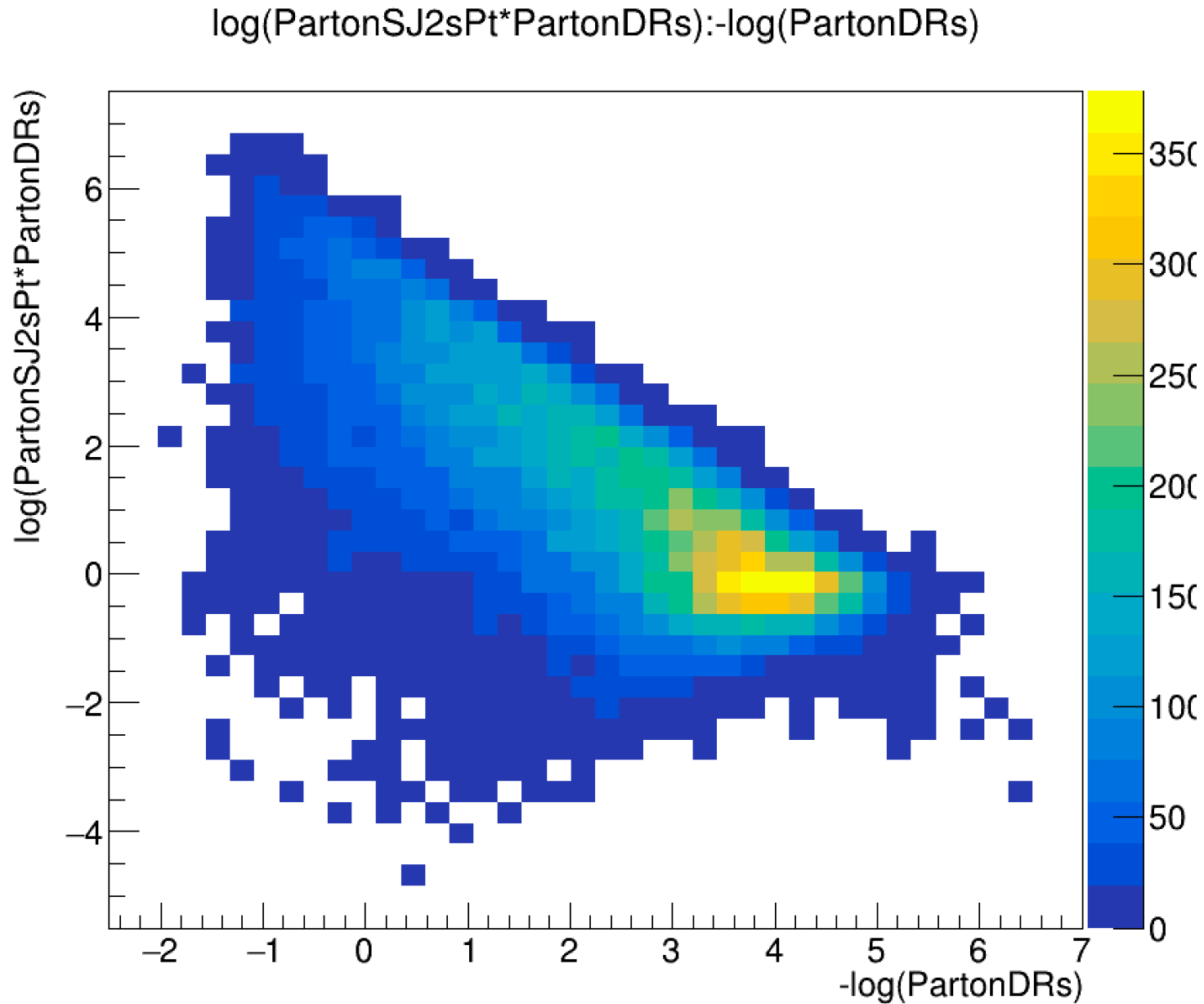
PYTHIA $\hat{p}_T > 300$ GeV, KT

$p_T^{\text{jet}} > 350$ GeV

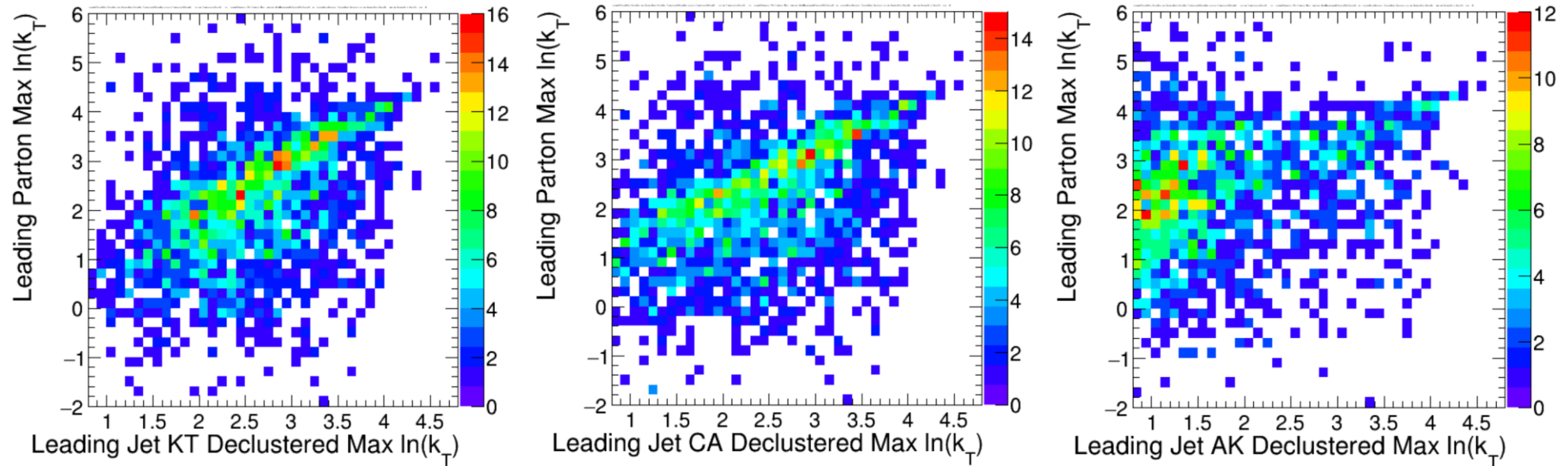


Unbeautified plots

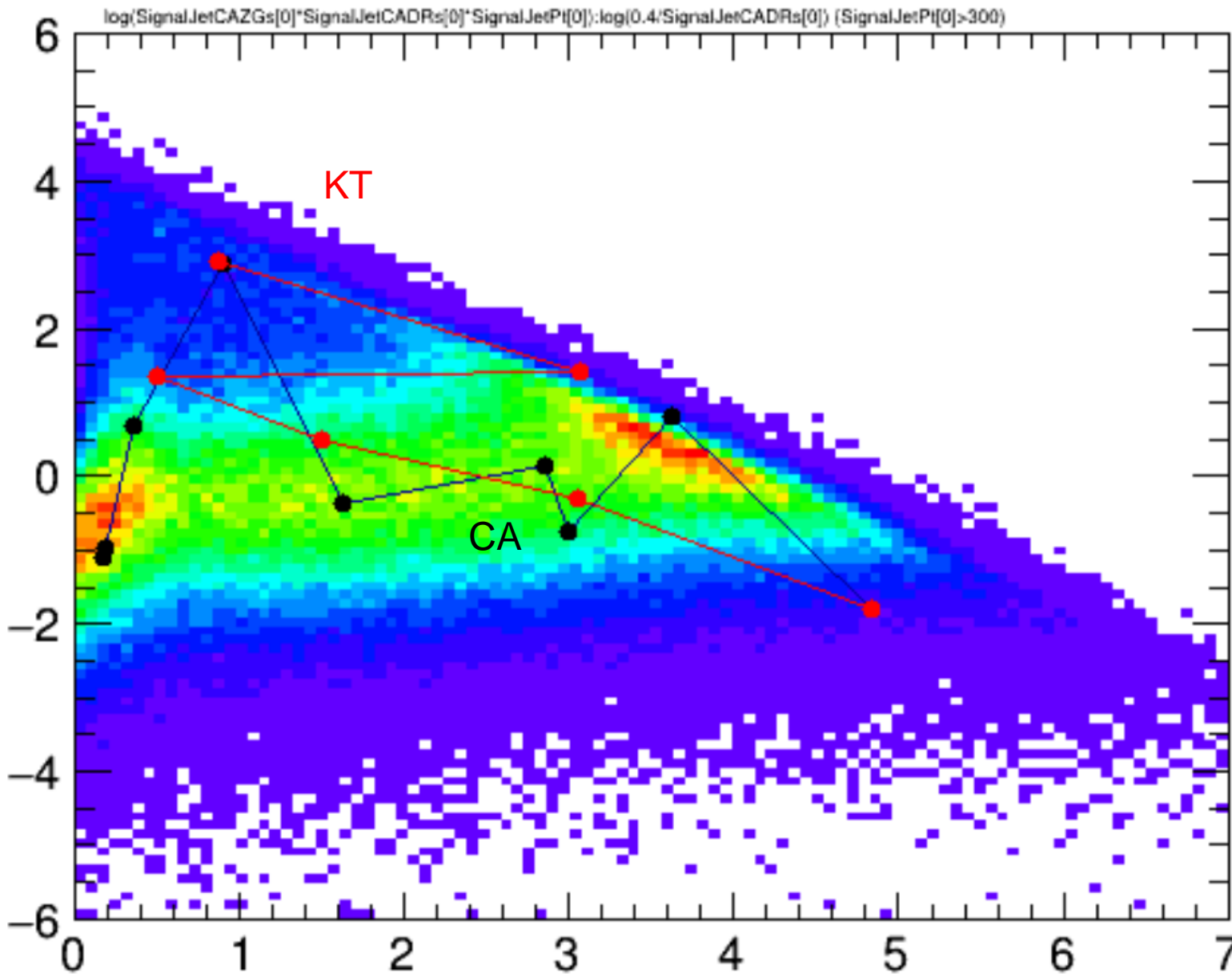
Unbeautified Parton Level Lund Diagram



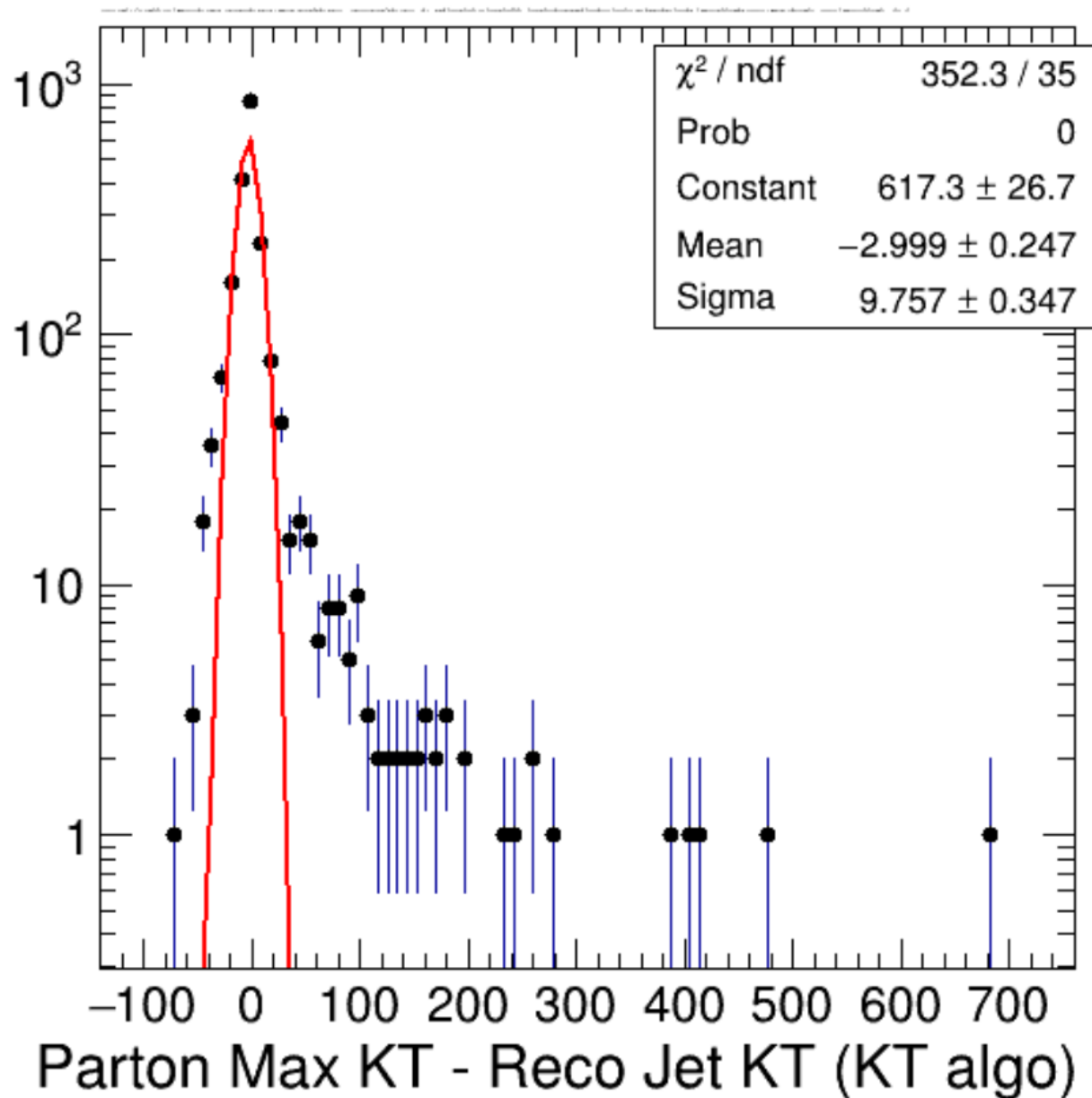
With lower statistics in cross-check macro



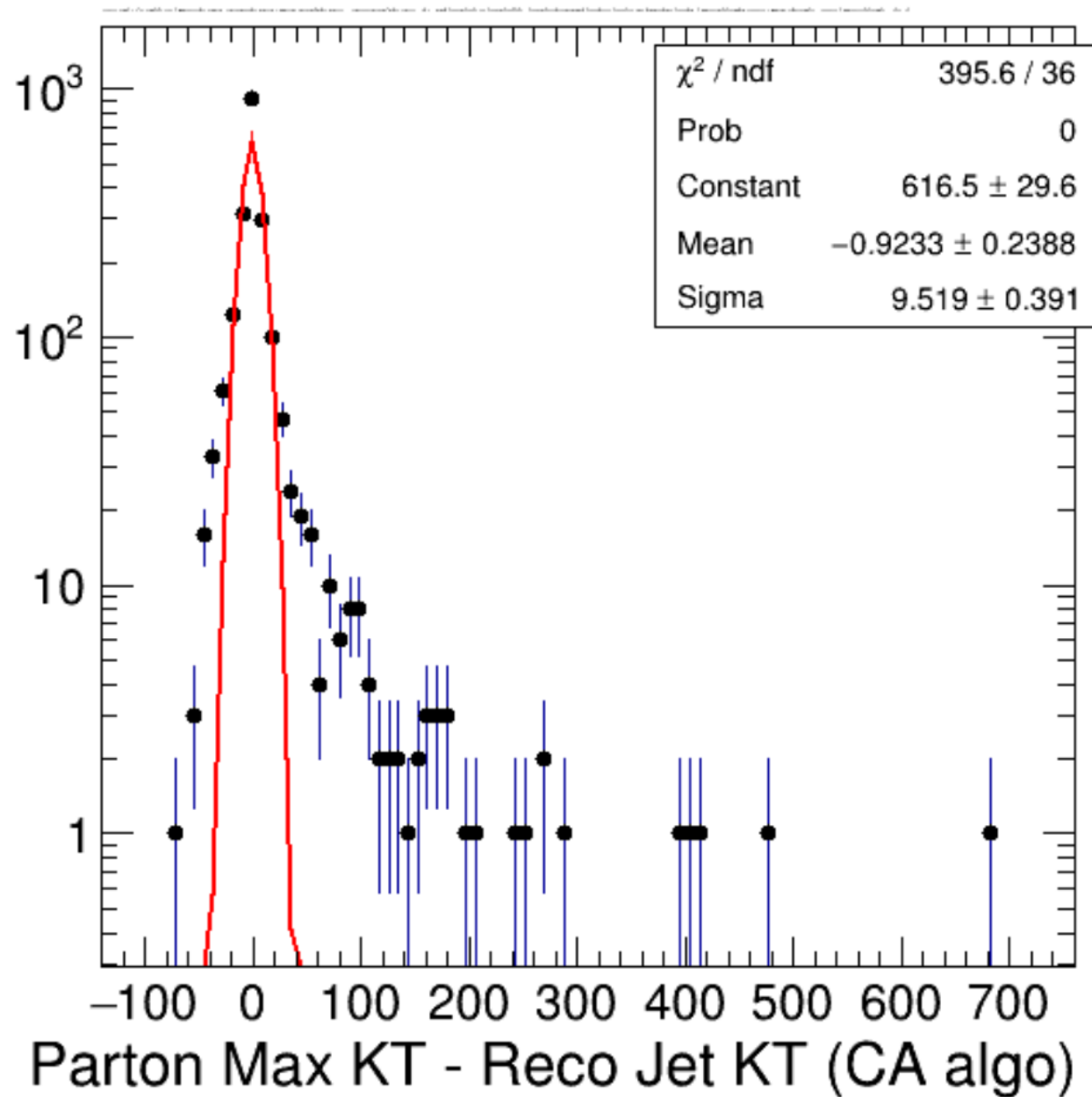
Unbeautified bad plot



Unbeautified resolution function



Unbeautified resolution function



Unbeautified resolution function

