

Last news from FTK performances

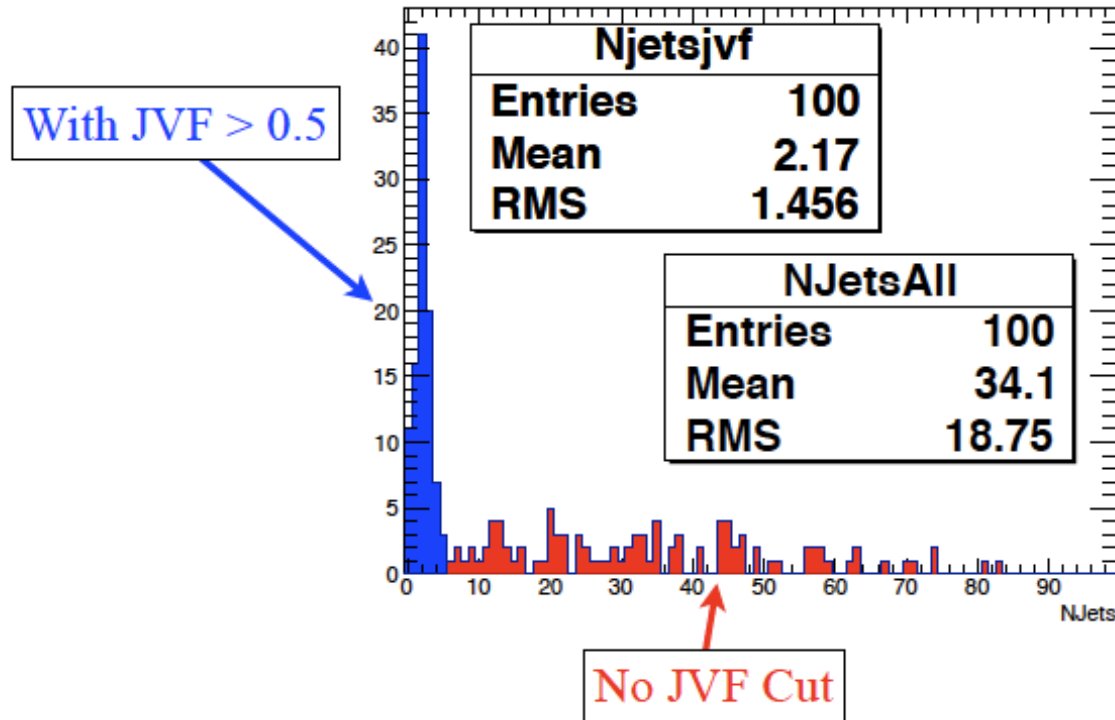
Alberto

Jet Vertex Fraction (offline)

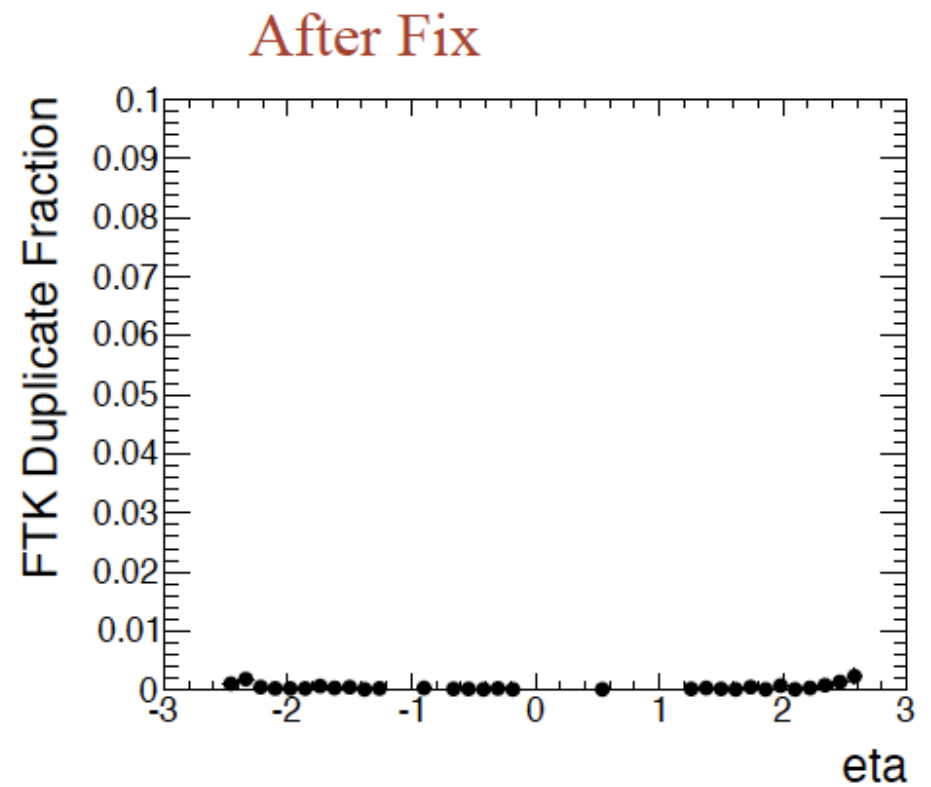
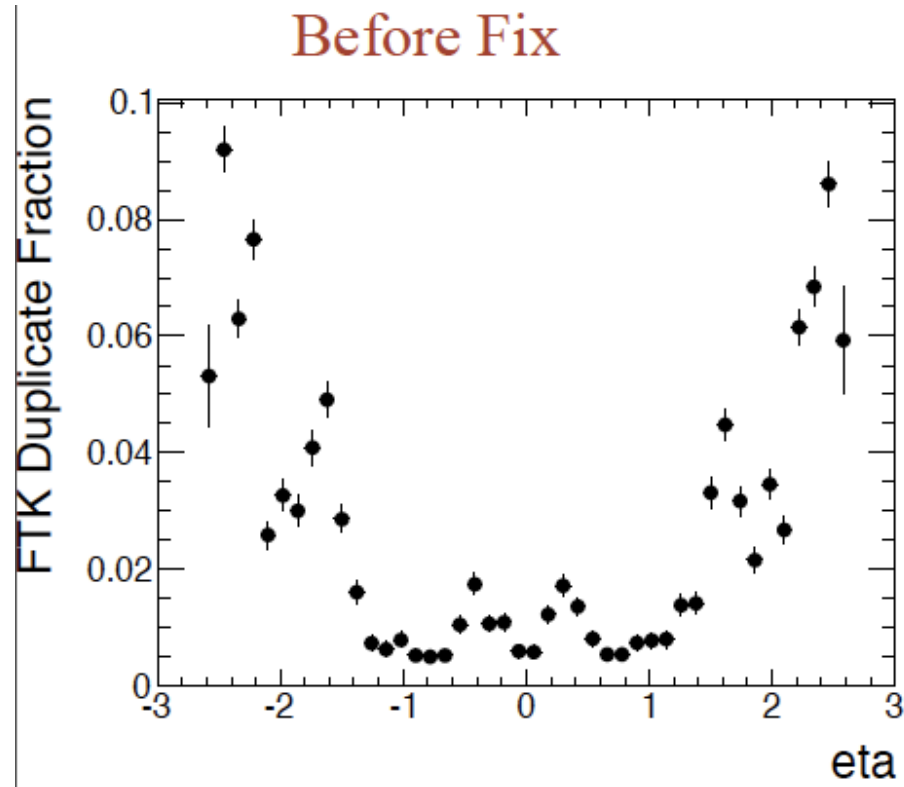
Jet multiplicity: (14 TeV / PU 70/ WH->lnbb)

$E_t > 25$ GeV (no fancy pile-up corrections)

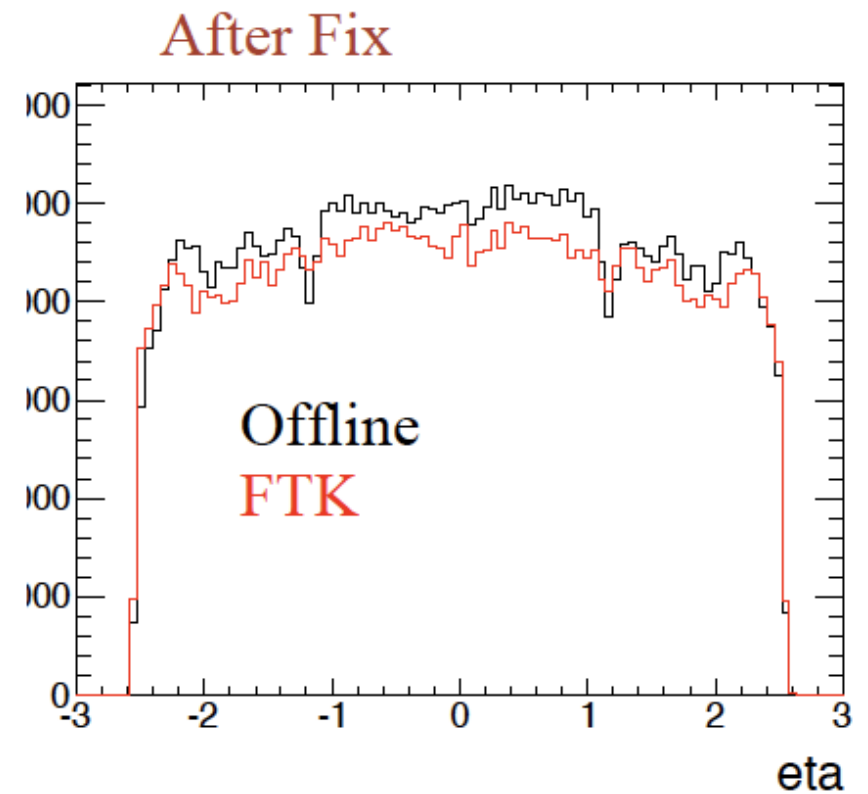
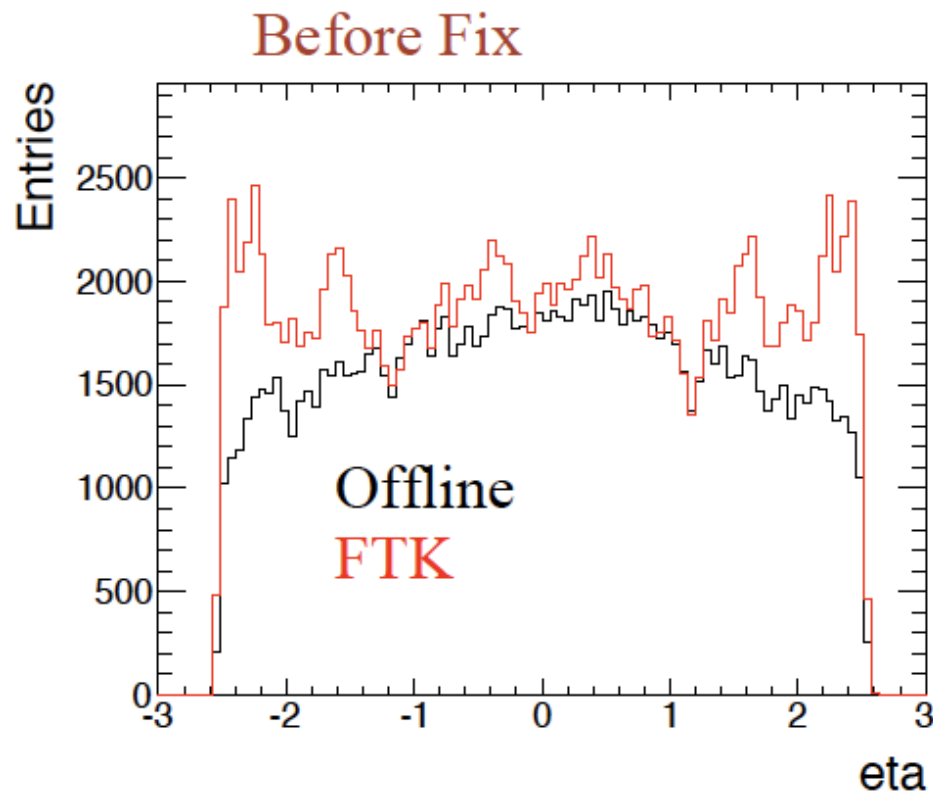
$|\eta| < 2.5$



Duplicates

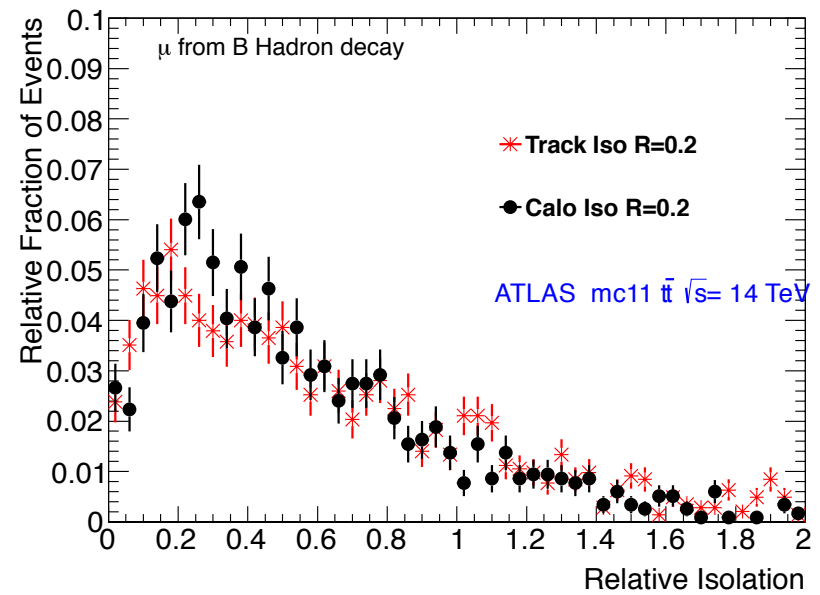
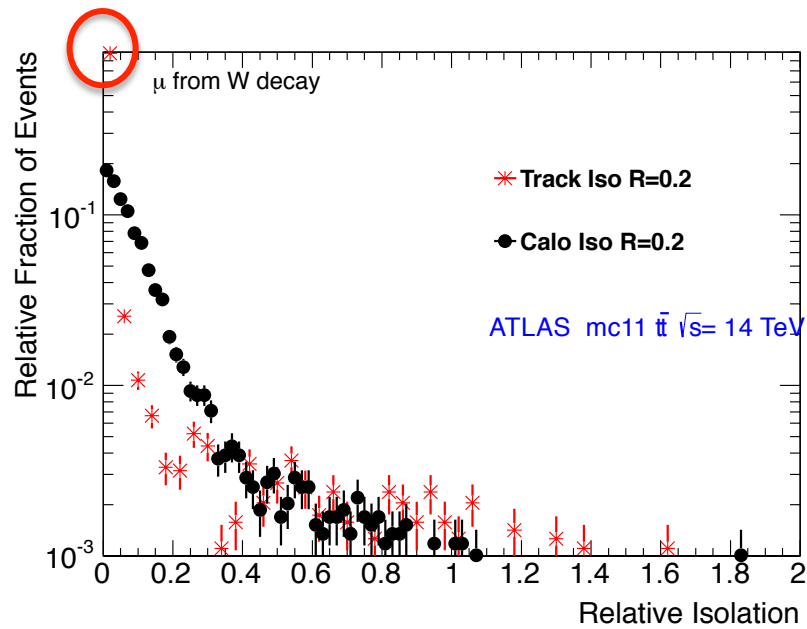


Discovered a bug in duplicate removal



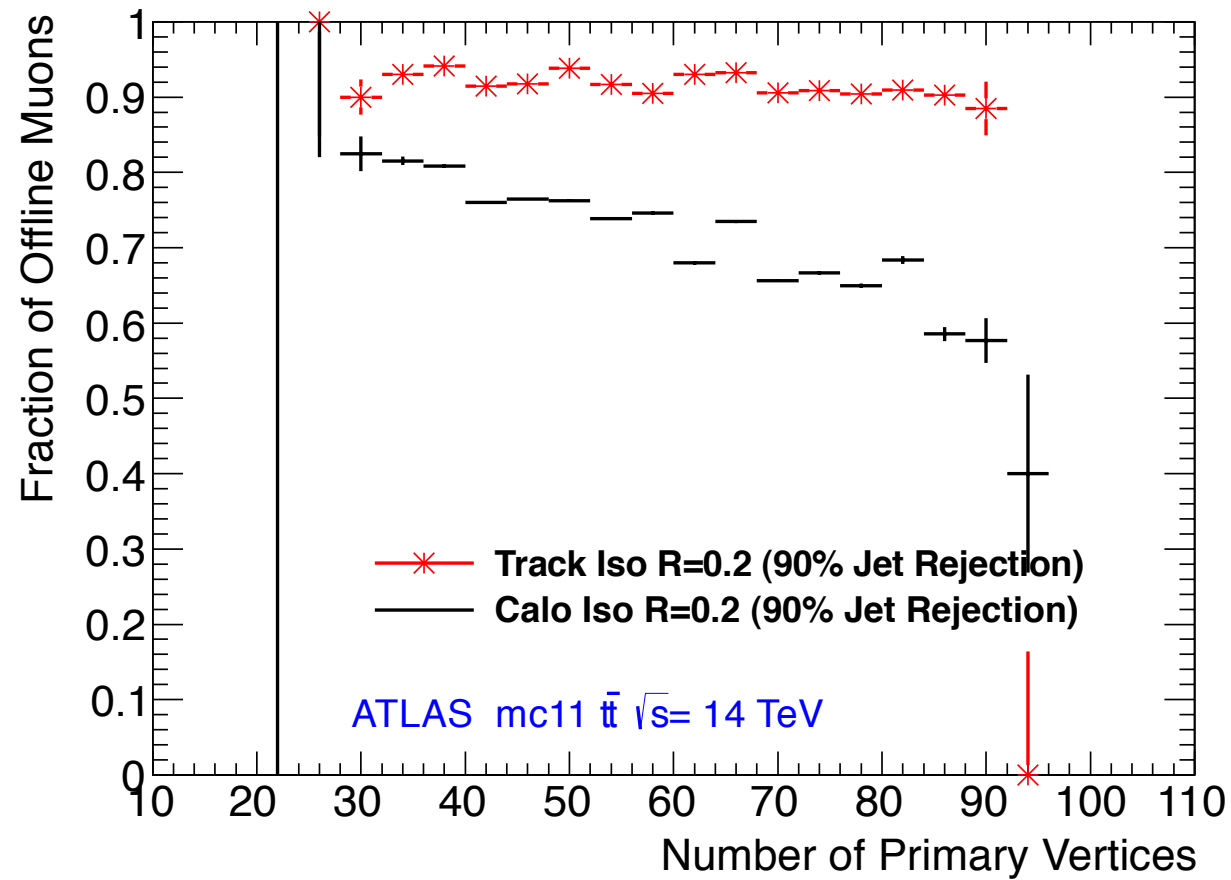
Lepton Isolation

Benjamin Auerbach



Lepton Isolation

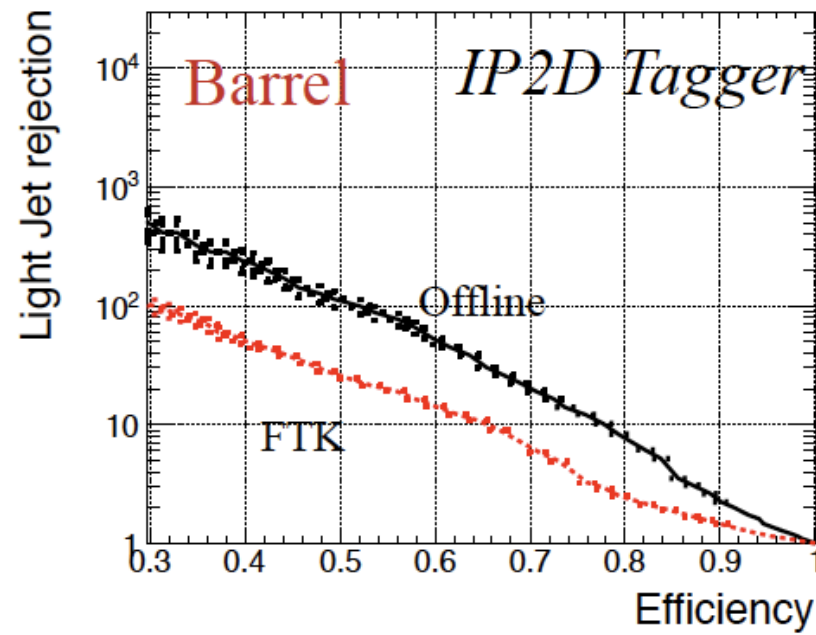
Benjamin Auerbach



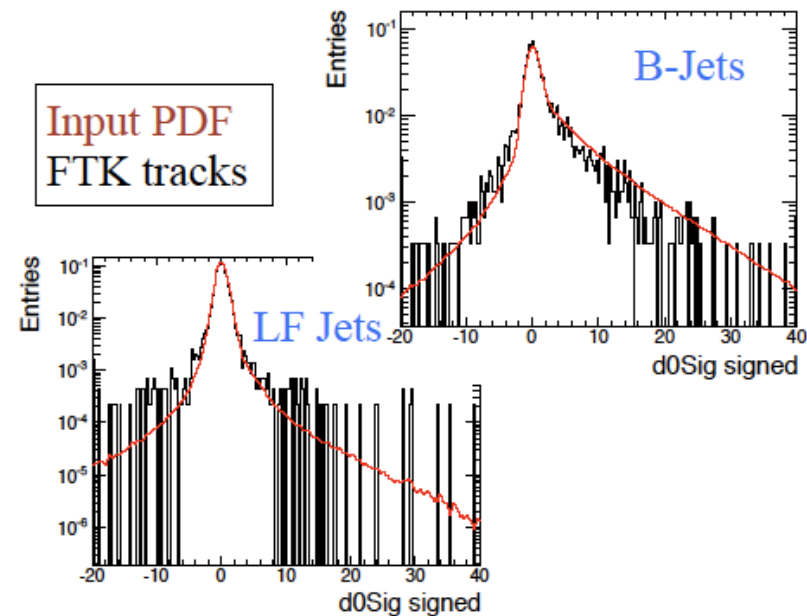
B-tagging 1/2

J. Alison

mc11 pu46 sample



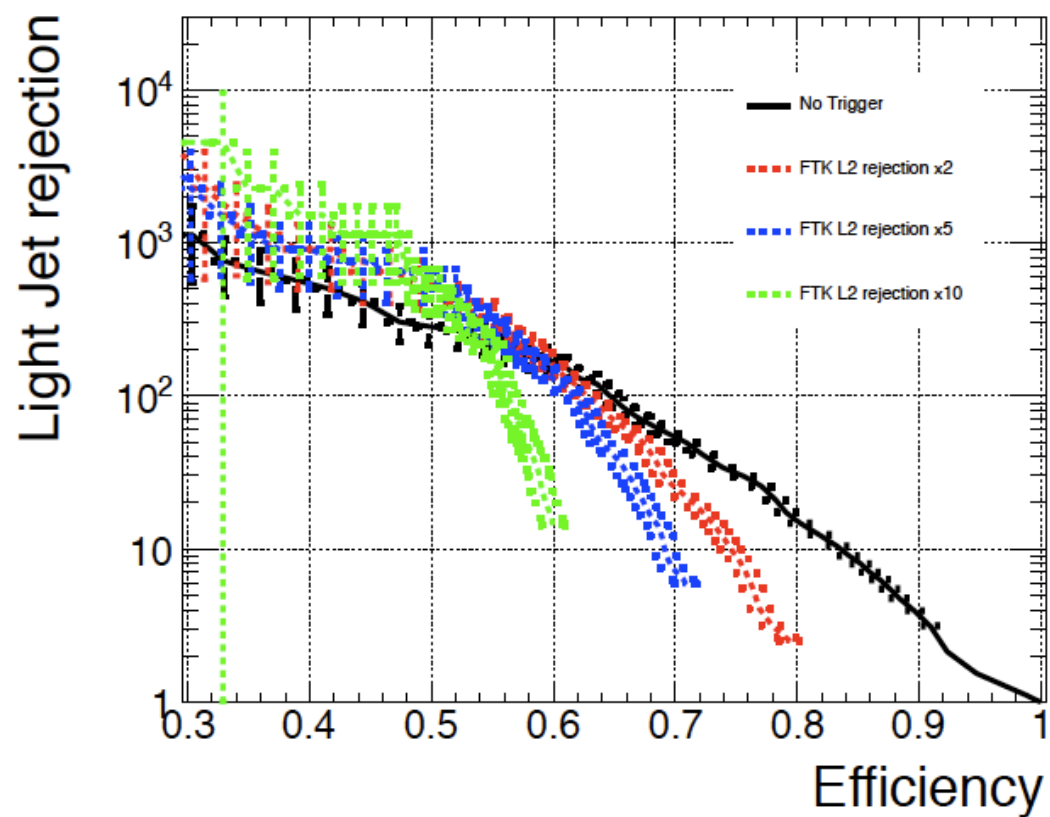
Nominal input PDFs



B-tagging 2/2

Offline JetFitterCombNN

J. Alison



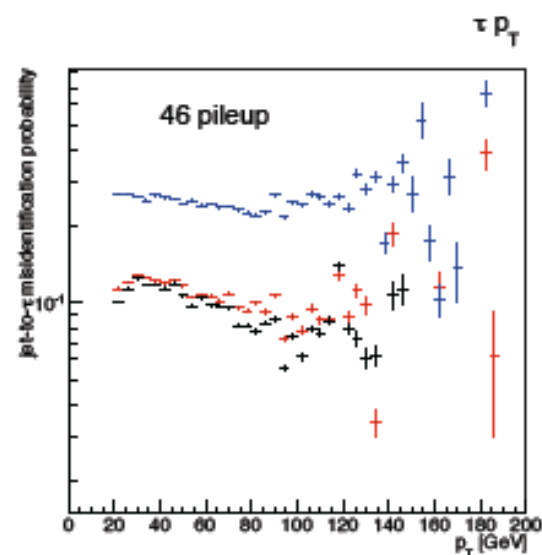
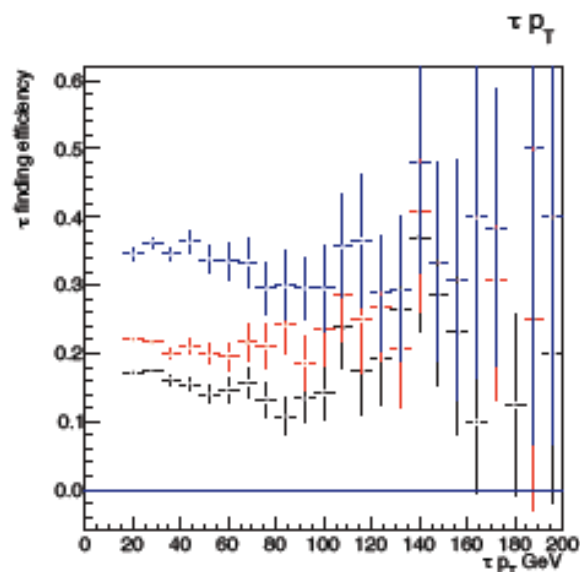
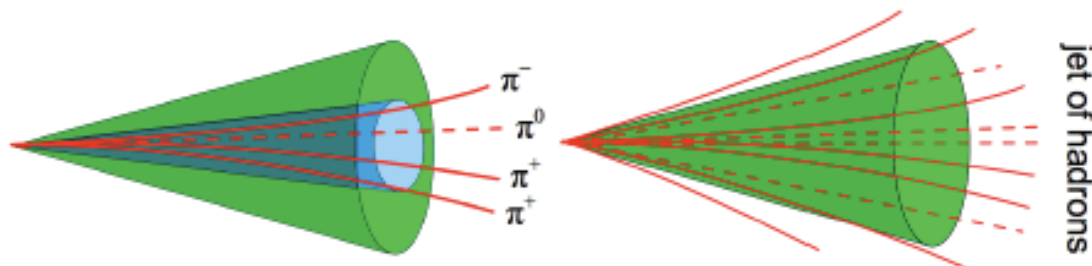


Efficiency for true taus

V. Cavaliere



- Using tau emulator: MC 11 sample with 46 pileup VBF $H \rightarrow \tau\tau \rightarrow lh$ and $WH \rightarrow l\nu qq$ for background
- Defined three types of L2 trigger:
 - TAUBL2
 - FTKL2 (uses FTK tracks at L2)
 - FTK1L2 (does not cut on et_{min} and core frac that are purely calorimetric variables)



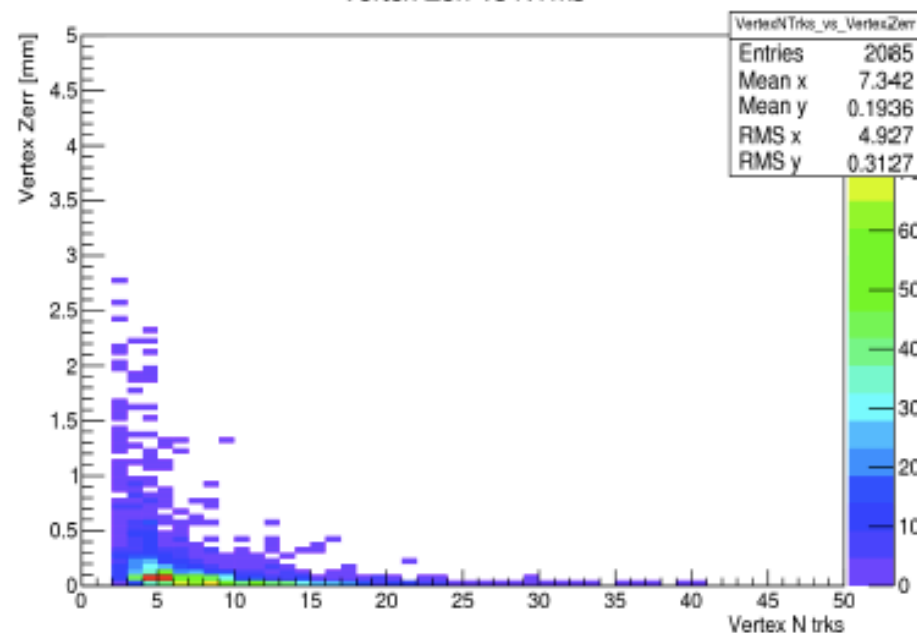
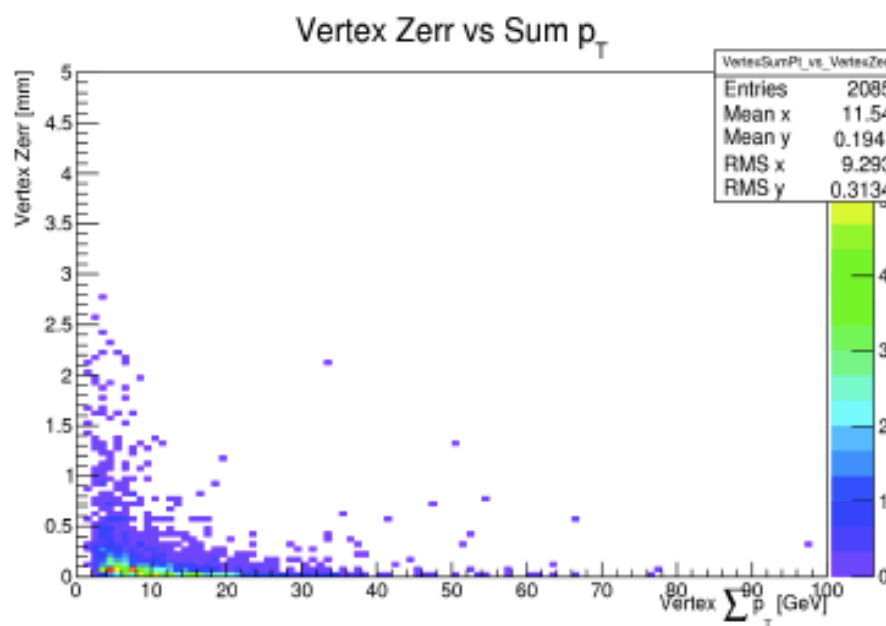
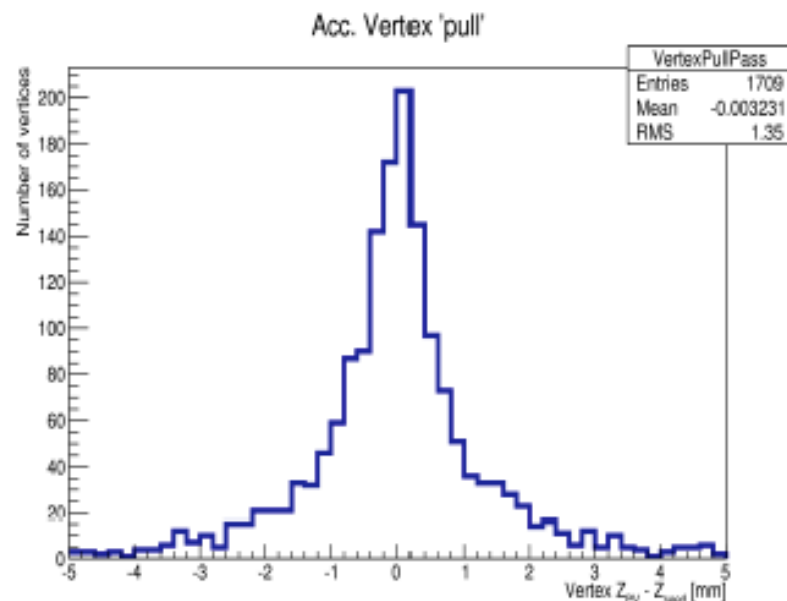
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Quality Studies

J. Love

mc11 pu46 sample

- Preliminary look at the pull
 - Pull centered at 0.003 with width 0.65 – 0.9 depending on fit region
 - Over estimating the uncertainties
- Study σ_z as a function of number of tracks and Σp_T
 - Both σ_x and σ_y have same behavior



BACKUP

efficiency vs pT

