

Trigger Efficiency Measurements in Re-Reco Data

P. Dunne

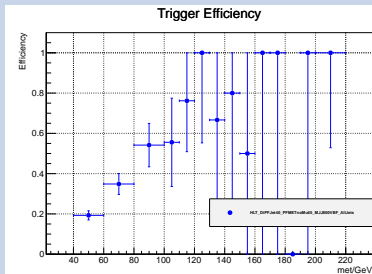
Overview

- ▶ I have used the SingleMu primary dataset to measure the efficiency of our prompt and parked triggers
 - So far I only have the 1D efficiencies for each variable
- ▶ I have also measured the efficiency in each run separately

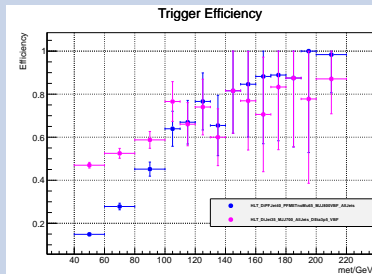
MET - Run by Run

- All cuts except $\Delta\phi_{jj}$ and CJV have been applied

Run A



Run B

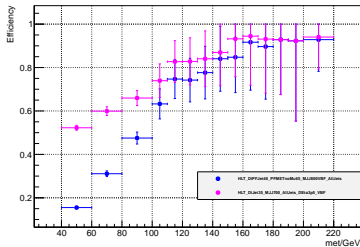


MET - Run by Run

- All cuts except $\Delta\phi_{jj}$ and CJV have been applied

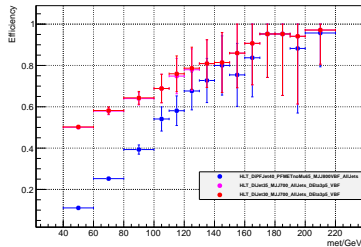
Run C

Trigger Efficiency



Run D

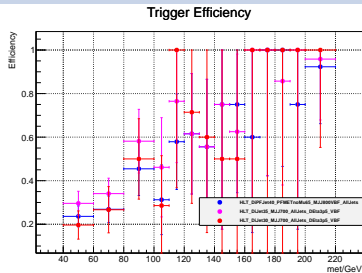
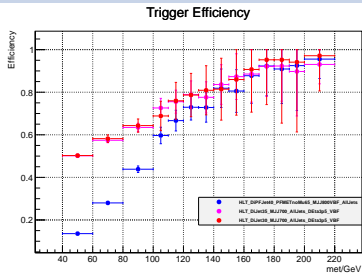
Trigger Efficiency



MET - All runs combined

- All cuts except $\Delta\phi_{jj}$ and CJV have been applied

- All cuts have been applied

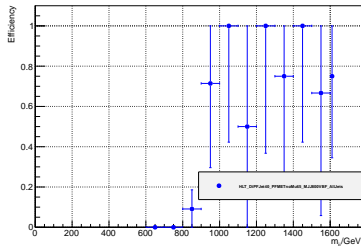


M_{jj} - Run by Run

- All cuts except $\Delta\phi_{jj}$ and CJV have been applied

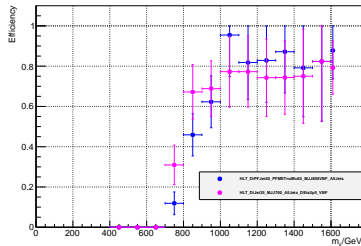
Run A

Trigger Efficiency



Run B

Trigger Efficiency

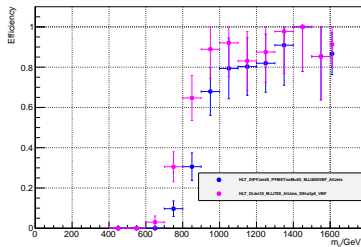


M_{jj} - Run by Run

- All cuts except $\Delta\phi_{jj}$ and CJV have been applied

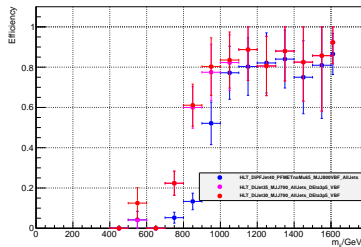
Run C

Trigger Efficiency



Run D

Trigger Efficiency

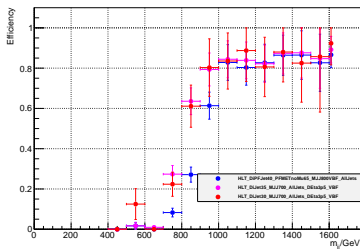


M_{jj} - All runs combined

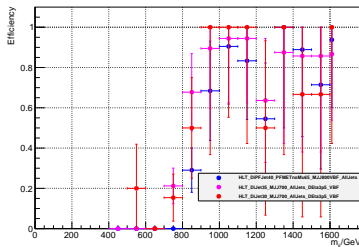
- All cuts except $\Delta\phi_{jj}$ and CJV have been applied

- All cuts have been applied

Trigger Efficiency



Trigger Efficiency

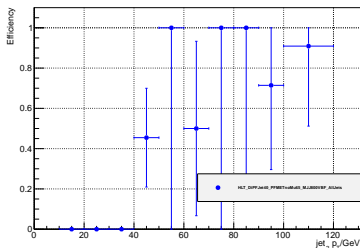


Jet 2 pt - Run by Run

- All cuts except $\Delta\phi_{jj}$ and CJV have been applied

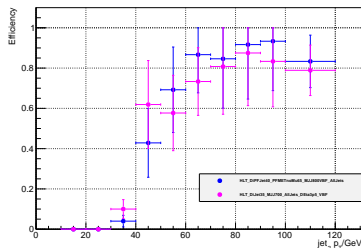
Run A

Trigger Efficiency



Run B

Trigger Efficiency

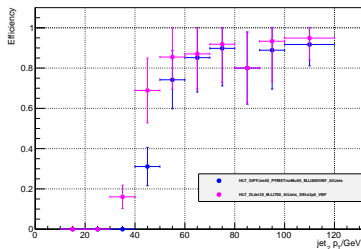


Jet 2 pt - Run by Run

- All cuts except $\Delta\phi_{jj}$ and CJV have been applied

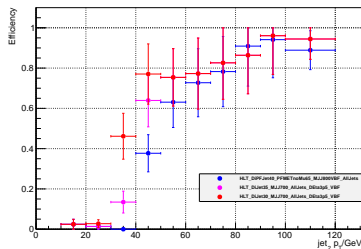
Run C

Trigger Efficiency



Run D

Trigger Efficiency

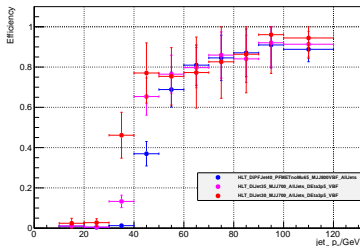


Jet 2 pt - All runs combined

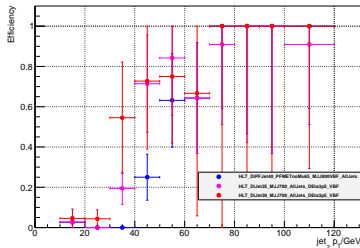
- All cuts except $\Delta\phi_{jj}$ and CJV have been applied

- All cuts have been applied

Trigger Efficiency



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Conclusions

- ▶ 1D prompt and parked trigger efficiencies have been measured for Re-Reco data
 - There are low stats when all cuts are applied so the $\Delta\phi_{jj}$ and CJV cuts have been loosened
- ▶ 3D trigger efficiency work is in progress

Backup