

Trigger Studies Update

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Motivation

- Understand the possible improvement brought by lower threshold from parked data triggers
- Quantify the possible loss of signal efficiency by selecting only $L1T_ETM40/50$ seeded HLT triggers
- Compare at parked/prompt datasets at first few cuts (QCD dominated) to check how much more data slips in from addition trigger efficiency over offline variables.

Notes:

Last signal efficiency study:

- Did not include PU weighting of sample.
- Was over Pythia 120 GeV mass point, not POWHEG 125 GeV.
- Only HLT and no other cuts.

Conclusions

