

Jet trigger news

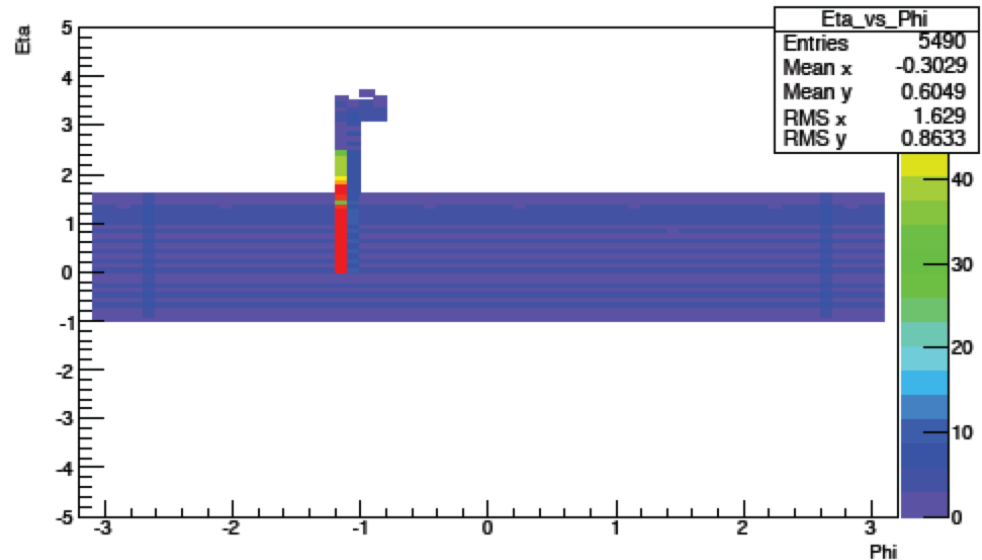
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Jet trigger meeting 11 August 2014

News

- **Trigger Operations**
 - Mini-workshop tomorrow (40-4-C01, 15h-18h)
 - <https://indico.cern.ch/event/332283/>.
- **Dataset lifetimes**
 - Lifetimes will be introduced (see <https://indico.cern.ch/event/286473>)
 - Current proposal:
 - 4 months:
 - NTUP_TRIG with x-tag (x-tag datasets are superseded by bulk processing)
 - 1 year:
 - NTUP_TRIG, NTUP_TRIGBJET, NTUP_TRIGMU NTUP_L1CALO, NTUP_L1TGC
 - What this means:
 - Datasets older than 1 year and not touched for 9 months can be **deleted from both disk and tape**
 - All run-1 trigger ntuples (including reprocessings) will be deleted as soon as this policy takes effect.
- **2011 jet trigger performance paper**
 - Waiting for MC to add stats for forward jet study

Full-scan versus Partial scan

- Bug found, probably in Region Selector, affecting Partial Scan (D.Freeborn)
- **Seems to** affect only very large Rols and come from geometry (phi wrapping)
- Should be fixed by migration of core sw code (Mark Sutton)
- But PS vs FS study timeline too short to wait for that (next 2 weeks)
- Studies proceeding with smaller Rol sizes – need to check for effects of this bug
- Internal note starting, to document study



M5 jet trigger chains

- Current proposal:
 - Chains both with and without LCW
 - All running TopoClusters and full-scan
 - Aim to see HLT code running on noise (L1 random triggers)
 - Also on events with some activity (starting from L1 muon trigger)
 - HLT in passthrough
- Possible chains are (naming to be clarified):
 - Random seed -> FS jet (passthrough):
 - j0_perf_L1RNDM —> with LCW
 - j0_cell_perf_L1RNDM —> without LCW
 - L1 Mu seed -> FS jet (passthrough):
 - j0_perf_L1MU10 —> with LCW
 - j0_cell_perl_L1MU10 —> without LCW

Hadronic Calibration Workshop

- 2014 Hadronic Calibration Workshop begins in 1 month:
<https://wwwatlas.mpp.mpg.de/munich-2014/>
 - **Jet & MET Trigger Session** on Tuesday 9 September 2014:
<https://indico.cern.ch/event/299407/other-view?view=standard>
 - Instructions for uploading contributions: <https://indico.cern.ch/event/299407/page/0>
- Interesting topics:
 - Jet & MET trigger performance and lessons from Run I
 - Calibration considerations for Jet & MET triggers in Run I
 - Physics analysis experiences and perspective on Jet & MET triggers in Run I
 - Plans for Jet & MET triggers in Run II
 - Performance of Jet & MET triggers for physics analysis in Run II
 - Pile-up dependence of Jet & MET triggers in Run II
 - Plans for monitoring Jet & MET triggers in Run II
 - Partial Scan vs. Full Scan Jet triggers in Run II
 - Performance of topoclustering for Jet & MET triggers for Run II
 - Use of reclustered jets for fat jet triggers in Run II
 - Multijet trigger performance and considerations in Run II
 - Phase I and Phase II Jet & MET triggers
- Please submit your contributions as soon as possible, or let us know of your intended contributions