

Jet Trigger On-Call Shift Summary

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Summary

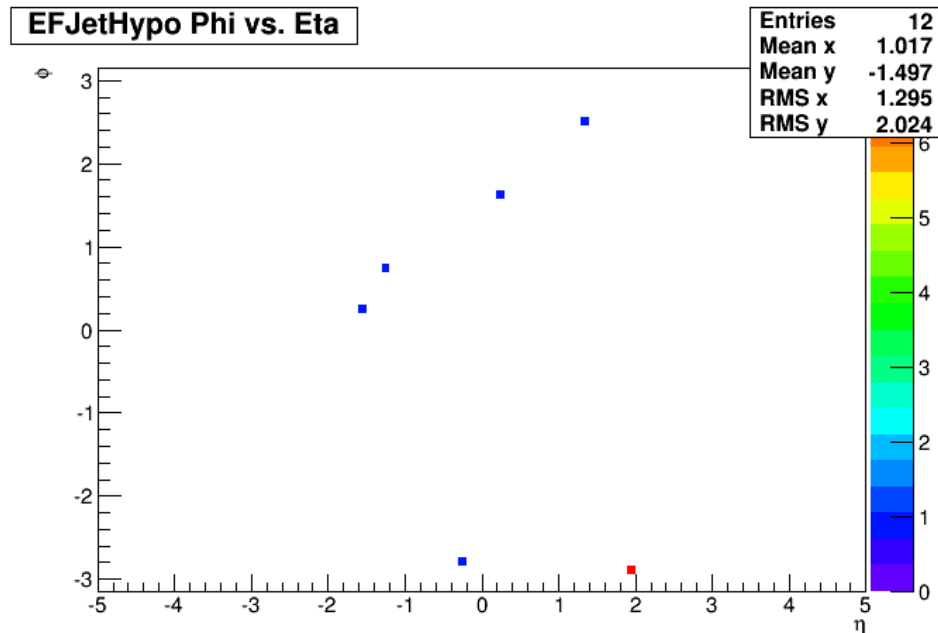
- Online:
 - No chains running during weekend due to bad TDAQ patch needed for collisions but bad for HLT in cosmics
 - Deployed new release 20.1.3 yesterday, tested in the afternoon, saw crashes again.
 - TDAQ applied new patch, crashes went away.
 - See per-mille level of events in the DEBUG stream
- Offline: Three reprocessing ongoing
 - ID cosmics reprocessing finishes w/o crashes
 - Low stats:
 - MET histos filled
 - Jet histograms empty for chains from L1_J12; j35 from RD0 filled and looks ok
 - Enhanced Bias reprocessing impossible to do because of MC_v5 menu crashes HLT. Got new rescale key with MB chains disabled, but then other crashes appear. Decision: postpone until fix available in next release.
 - Low mu pp reprocessing, high-multiplicity trigger, still on hold in reconstruction.

Run by Run

Run	Duration	Ended	Events	Online Hist.	Obs.
256054	298.9m	Sun 17:06	3812020	All empty	
256050	1082.9m	Sun 11:39	14243855	MET: 1 histo fill Jets: empty	Low stats Chains only active in PSK 281 (31 Lumi Blocks) No active HT chains
255988	396.7m	Sat 16:49	4617087	Empty	No chains
255978	29.4m	Sat 10:04	230937	Empty	No chains
255973	707.4m	Sat 09:06	9330067	Empty	No chains
255972	75.6m	Fri 21:10	869224	MET: empty HT: empty Jets: see below	Jet/MET chains active only for HLT PSK 276 HT chains not active
255963	40.9m	Fri 19:40	203526	Empty	BUT chains active(?)
255815	132.5m	Fri 08:54	813029	MET: filled - OK Jets: filled - OK	Jet/MET chains active! HLT PSK 250

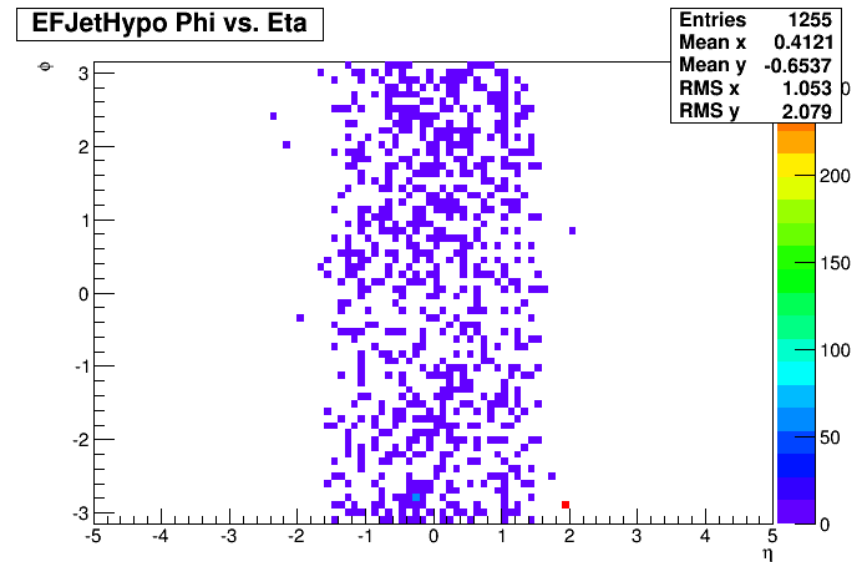
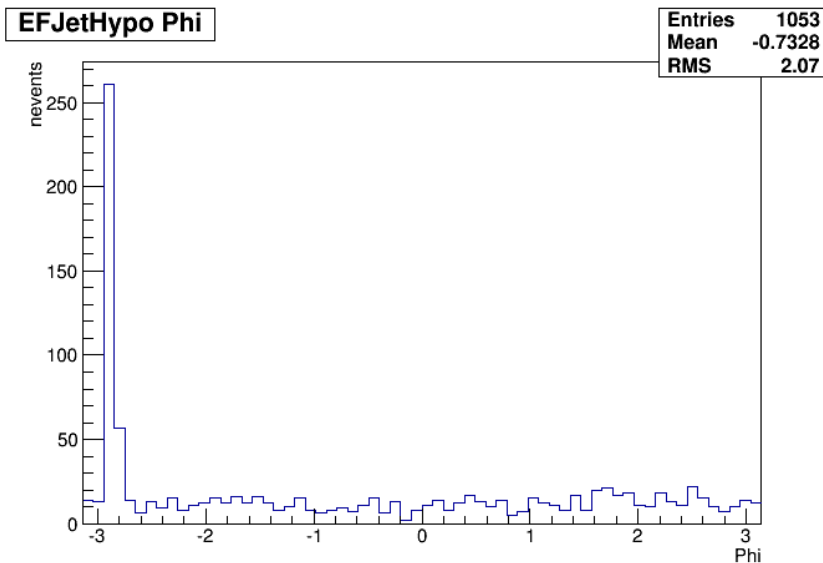
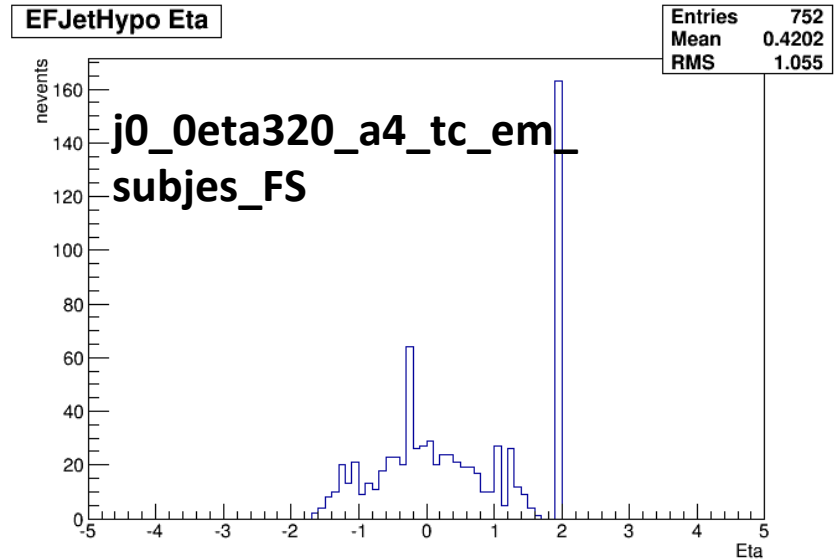
Run 255972 Puzzle...

- Empty histos: Njet, ET, eta, phi
- Eta_vs_Phi: /j0_a10_tc_em_nocjalib_FSHistogramming.TopMIG-OH:HLT./EXPERT/EFJetHypo_j15000_0eta320_a4_tc_em_subjes_FS/Eta_vs_Phi
- I.e. j0 chains but with j15 hypo?!!!
 - Checked with Peter that config is correct for release (AtlasP1HLT-20.1.2.1)
- Only appears in folder **HLTDQM**
- Contacted Martin and Joana to find out what this folder is..
- Correct folder in MDA is **TopMIG-OH:HLT**



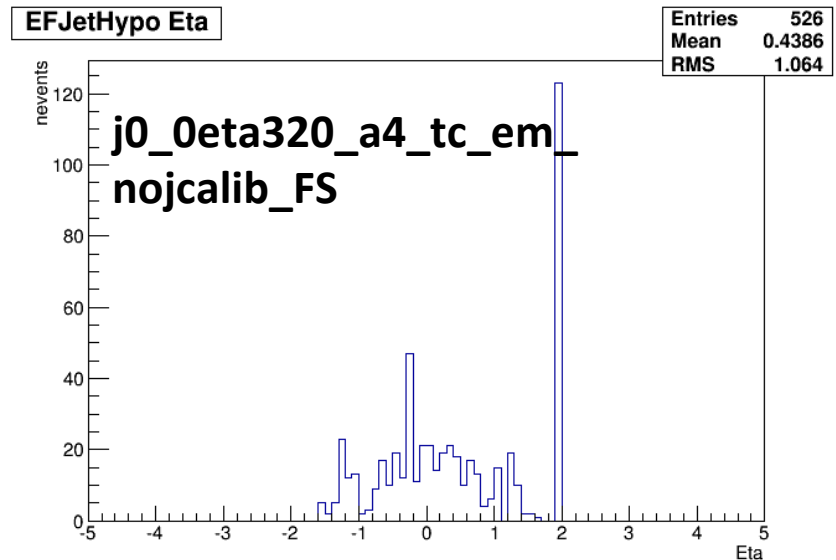
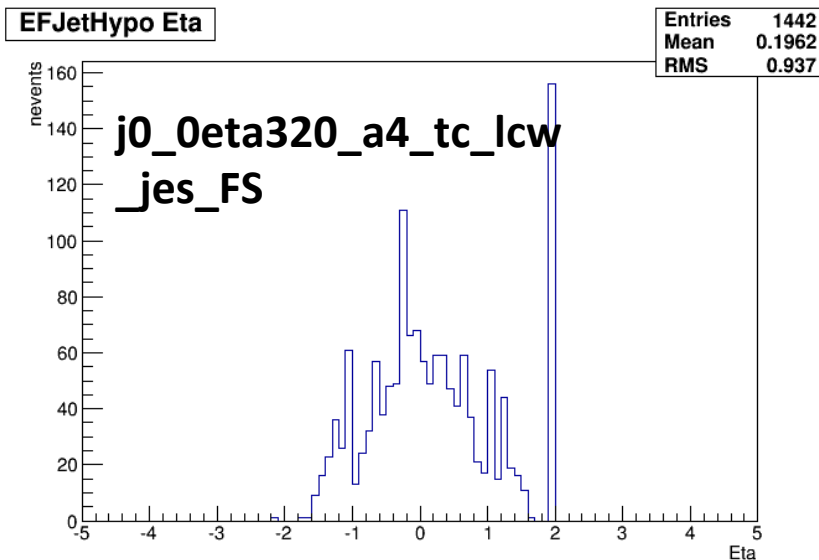
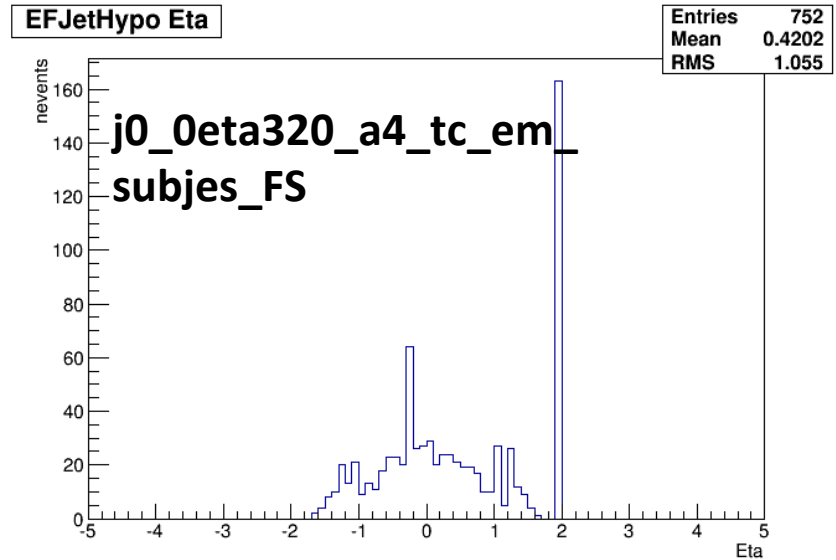
Run 255972 Online Histos

- j0 chains with several calibrations
- j15 chain with default calibration
- Seeded from L1_J12
- Noise spikes at $\phi=-2.9$; $\eta = 2$ and -0.1 (not there in previous runs 255815)



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- j15 chain with default calibration
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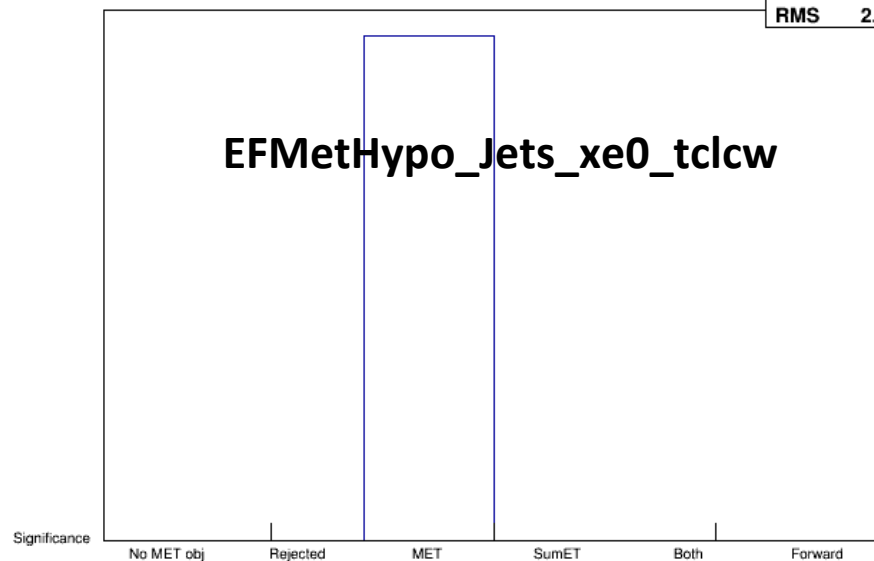


Run 255972 MET

- Chains seeded from L1_XE35
- Histograms seem to be properly filled
- No histograms for:
 - HLT_xe35_L2FS
 - HLT_xe35_mht

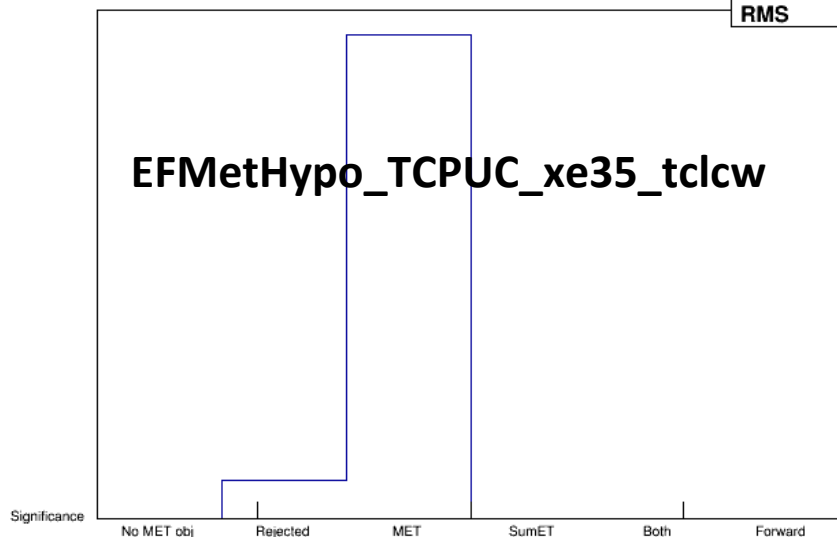
Missing E_T Hypo cuts

Entries	497
Mean	1.417
RMS	2.107e-08



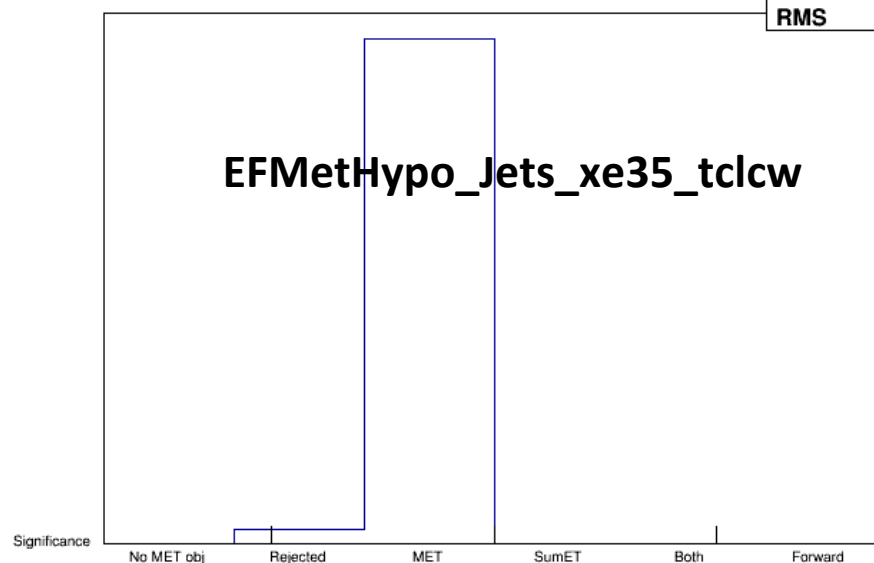
Missing E_T Hypo cuts

Entries	291
Mean	1.332
RMS	0.3019

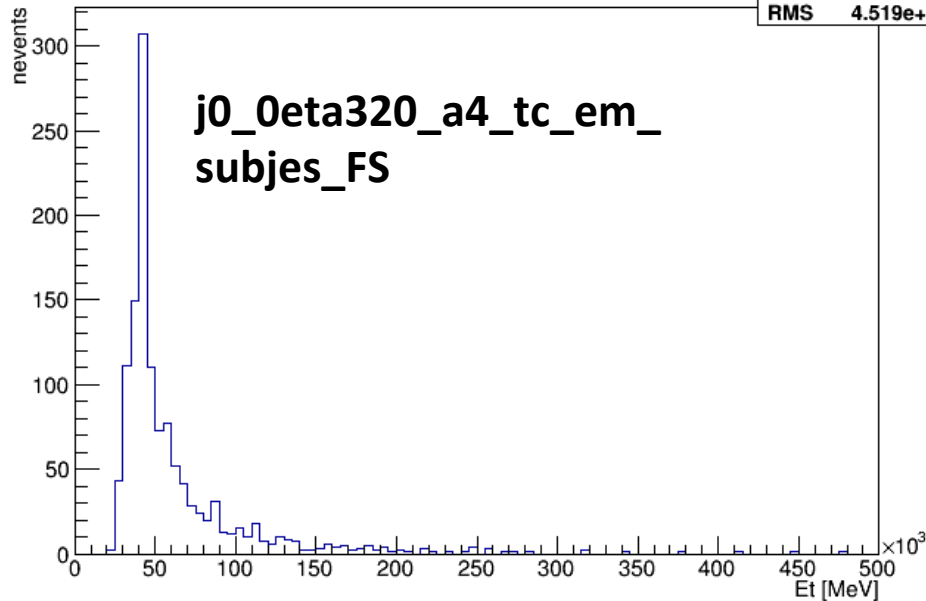


Missing E_T Hypo cuts

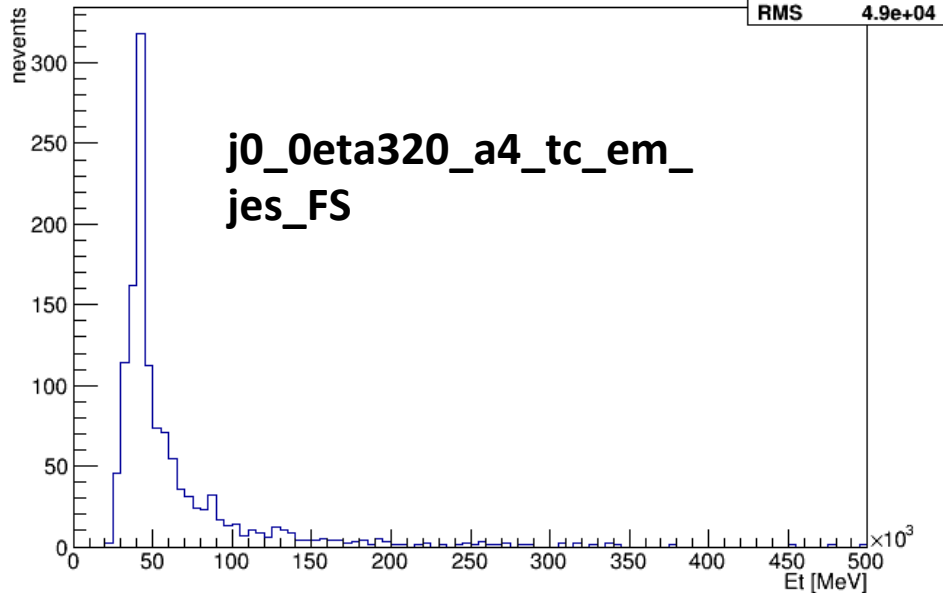
Entries	270
Mean	1.386
RMS	0.1854



EFJetHypo Et



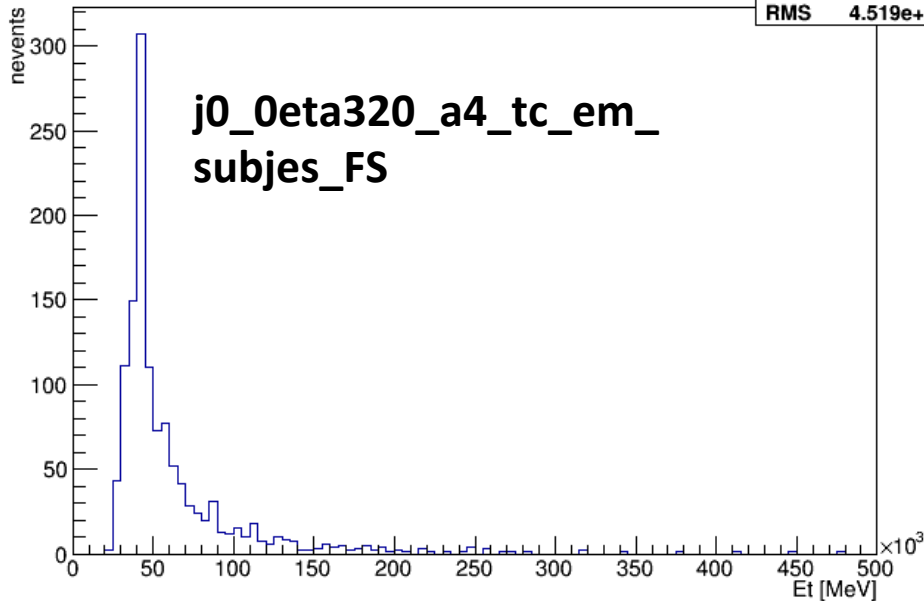
EFJetHypo Et



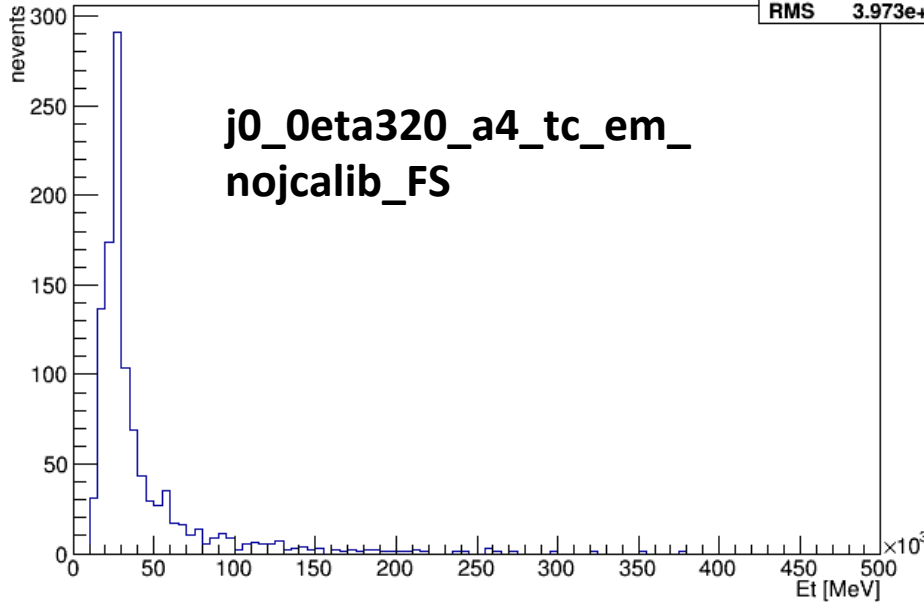
Run 255972

- Up: Default calibration
- Down: no area subtraction
- ET>0
- $0 < \eta < 3.2$
- EM-scale clusters
- Anti-kt R=0.4
- Jet Energy Scale (old)
- Full Scan

EFJetHypo Et



EFJetHypo Et

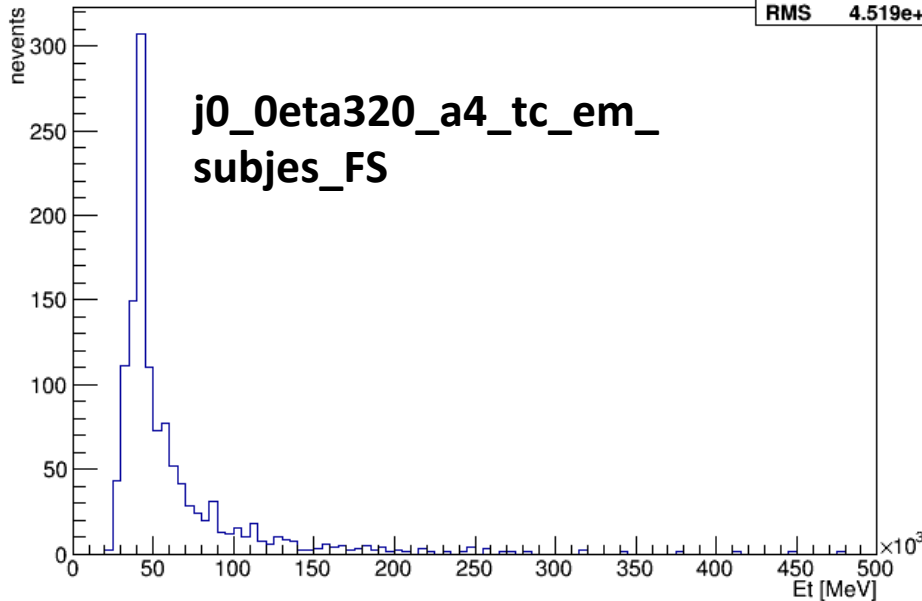


Run 255972

- Up: Default calibration
- Down: no JES or area subtraction
- ET > 0
- $0 < \eta < 3.2$
- EM-scale clusters
- Anti-kt R=0.4
- Jet Energy Scale (old)
- Full Scan

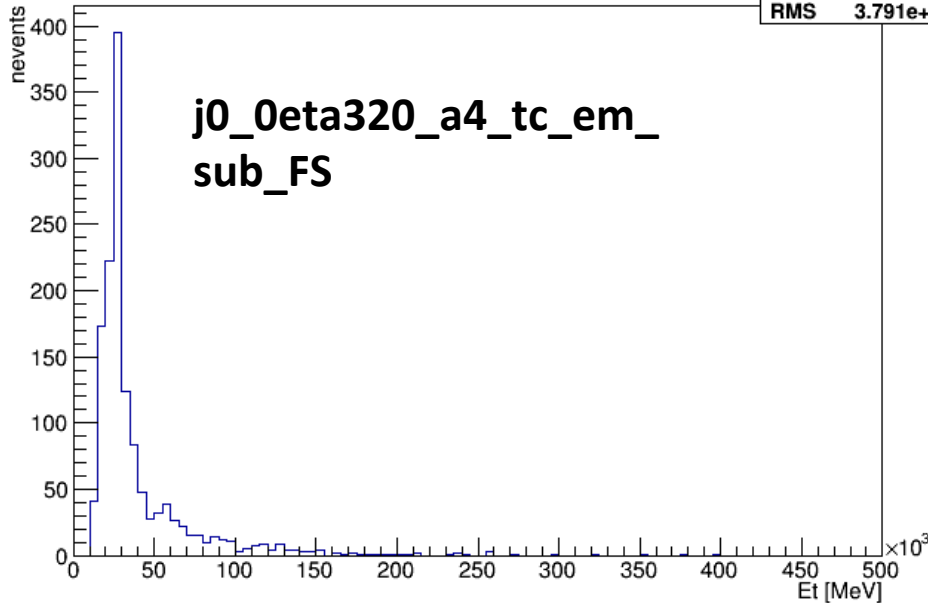
EFJetHypo Et

Entries 1242
Mean 6.209e+04
RMS 4.519e+04



EFJetHypo Et

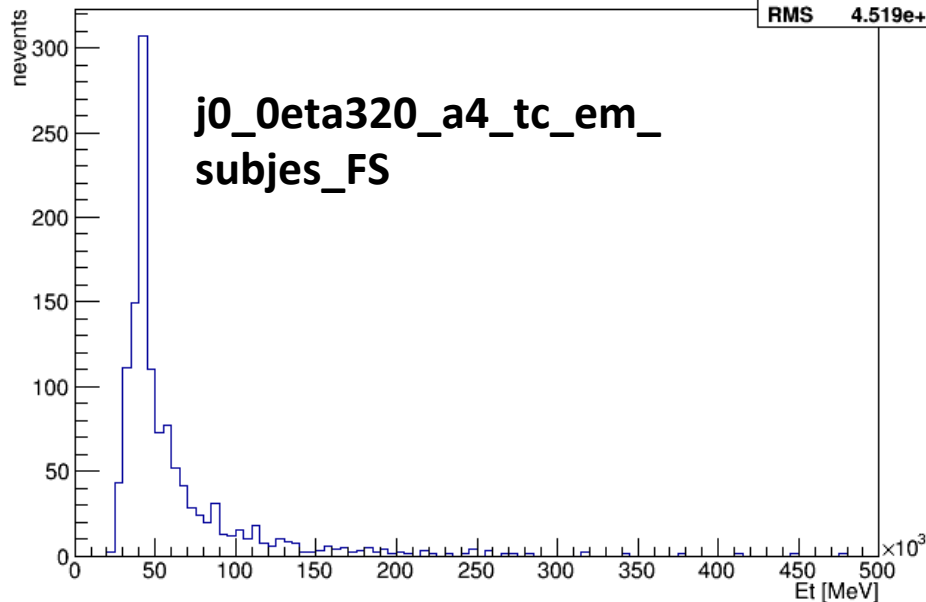
Entries 1393
Mean 4.055e+04
RMS 3.791e+04



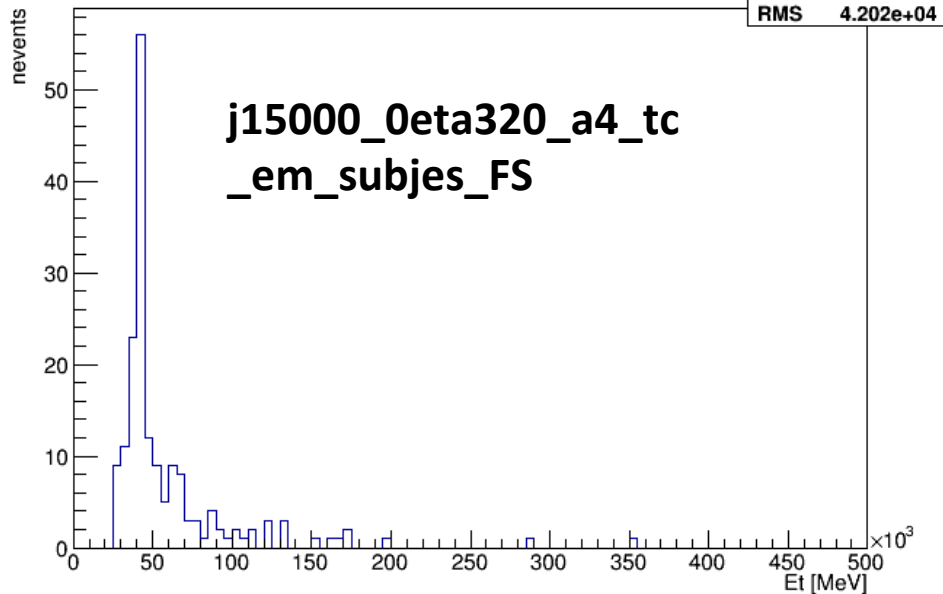
Run 255972

- Up: Default calibration
- Down: no Jet Energy Scale
- ET > 0
- $0 < \eta < 3.2$
- EM-scale clusters
- Anti-kt R=0.4
- Jet Energy Scale (old)
- Full Scan

EFJetHypo Et



EFJetHypo Et

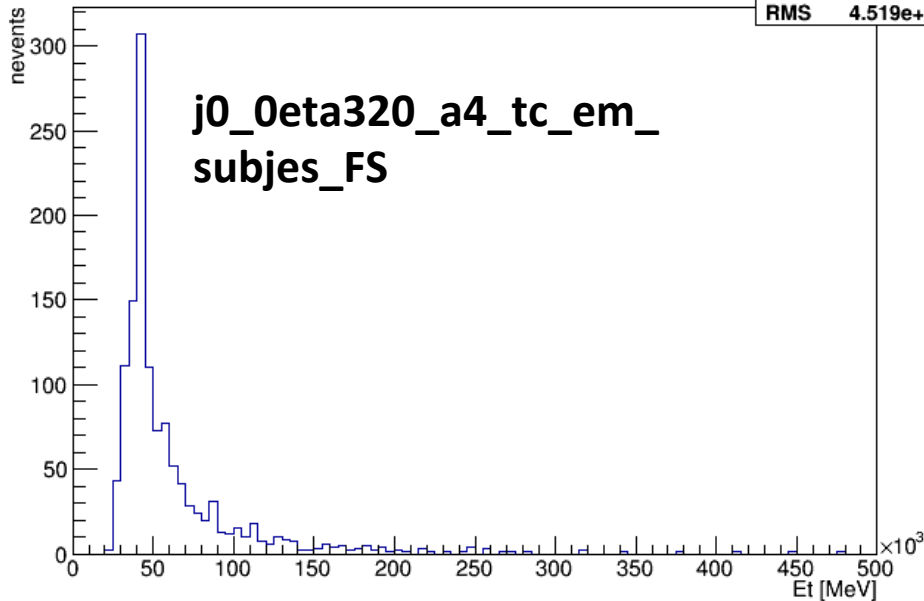


Run 255972

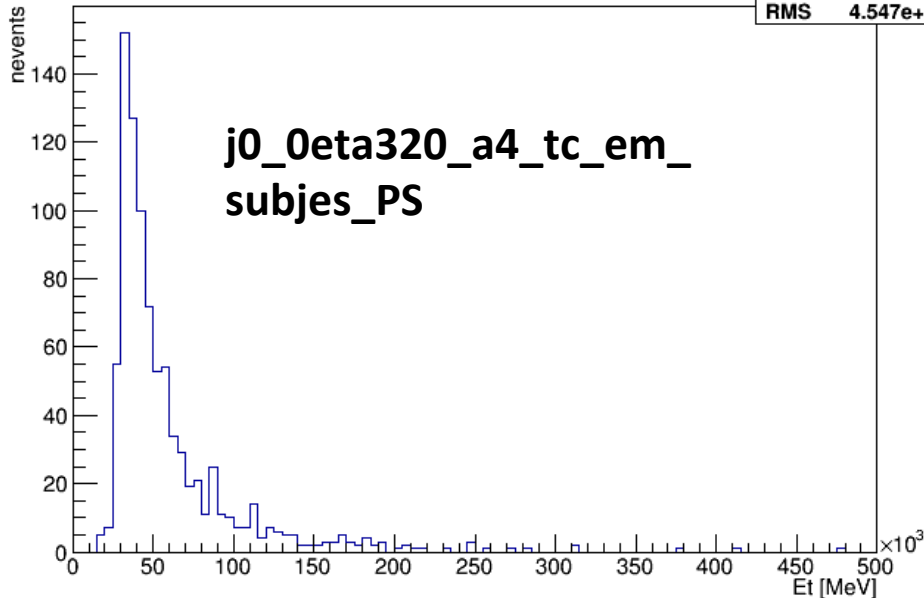
- Up: j0
- Down: j15
- **Different numbers of events?!**

- Both seeded from L1_J12
- ET>0
- $0 < \eta < 3.2$
- Anti-kt R=0.4
- EM-scale clusters
- Default jet calibration:
 - Jet Energy Scale (old)
 - Jet area subtraction
- Full Scan

EFJetHypo Et



EFJetHypo Et

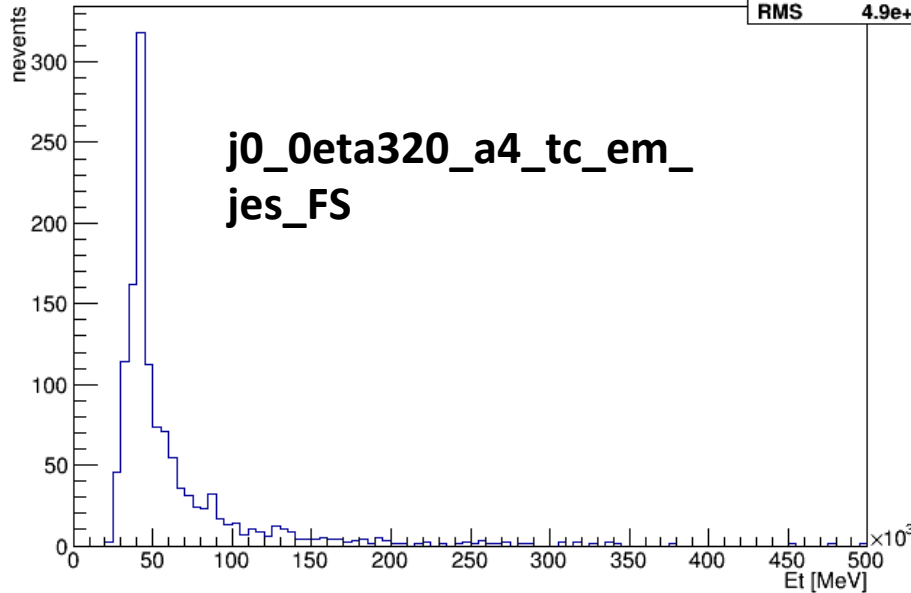


Run 255972

- Up: Full Scan
- Down: Partial Scan
- Both seeded from L1_J12
- ET > 0
- $0 < \text{eta} < 3.2$
- Anti-kt R=0.4
- EM-scale clusters
- Default jet calibration:
 - Jet Energy Scale (old)
 - Jet area subtraction

EFJetHypo Et

Entries 1283
Mean 6.319e+04
RMS 4.9e+04

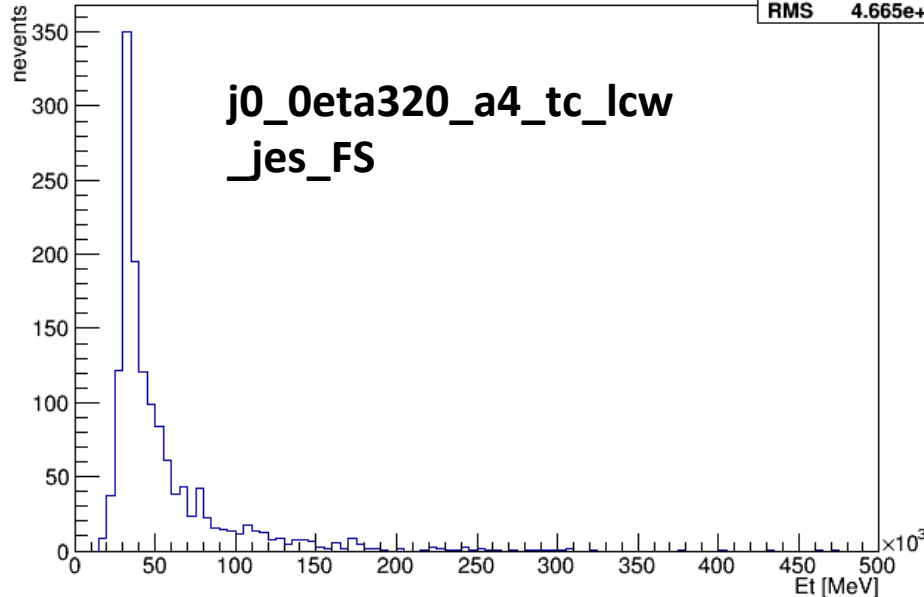


Run 255972

- Up: EM-scale clusters
- Down: LCW clusters

EFJetHypo Et

Entries 1441
Mean 5.675e+04
RMS 4.665e+04



- $ET > 0$
- $0 < \eta < 3.2$
- Anti-kt $R=0.4$
- No jet area subtraction
- Jet Energy Scale (old)
- Full Scan

Run 255972

- Up: no calibration
- Down: LCW, area subtraction, no JES
- $ET > 0$
- $0 < \eta < 3.2$
- LCW clusters
- Anti-kt $R=0.4$
- Full Scan

