

Jet/MET/HLTCalo shift report

Ricardo Gonalo – LIP

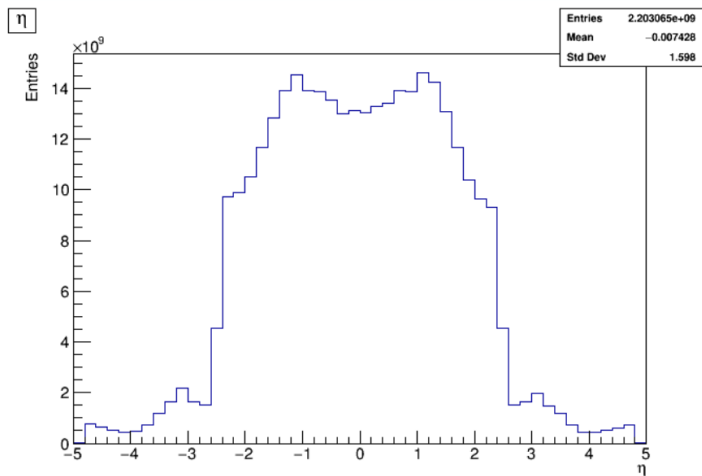
Jet trigger weekly meeting – 3/10/2016

Signed off runs

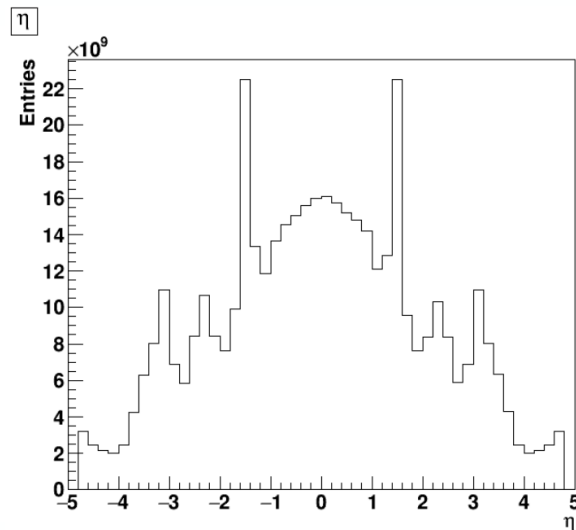
- Runs signed off: 309375, 309390, 309440, 309516, 309640, 309674, 309726, 309759
- Main issue found was a bad set of LAr noise constants uploaded by accident ([ATR-15125](#))
 - Caused high rate and high number of calo clusters

25	Runs to sign off:	
26	308306	https://its.cern.ch/jira/browse/ATR-15052 (ptag data16_cos, duration 786.5m, 1912734 events, ATLAS Ready lumi 0.00/nb, ended Wed 09:26; calibration loop ends Fri 09:33)
27	308706	https://its.cern.ch/jira/browse/ATR-15065 (ptag data16_cos, duration 545.0m, 4938432 events, ATLAS Ready lumi 0.00/nb, ended Fri 10:17; calibration loop ends Sun 10:22)
28	308779	https://its.cern.ch/jira/browse/ATR-15065 (ptag data16_cos, duration 143.1m, 7572197 events, ATLAS Ready lumi 0.00/nb, ended Fri 20:38; calibration loop ends Sun 20:42)
29	308807	https://its.cern.ch/jira/browse/ATR-15065 (ptag data16_cos, duration 144.3m, 10219938 events, ATLAS Ready lumi 0.00/nb, ended Sat 00:34; calibration loop ends Mon 00:52)
30	308846	https://its.cern.ch/jira/browse/ATR-15066 (ptag data16_cos, duration 219.2m, 2423721 events, ATLAS Ready lumi 0.00/nb, ended Sat 22:21; calibration loop ends Mon 22:22)
31	308852	https://its.cern.ch/jira/browse/ATR-15068 (ptag data16_cos, duration 632.3m, 4832234 events, ATLAS Ready lumi 0.00/nb, ended Sun 10:13; calibration loop ends Tue 10:32)
32	308889	https://its.cern.ch/jira/browse/ATR-15068 (ptag data16_cos, duration 42.1m, 300557 events, ATLAS Ready lumi 0.00/nb, ended Sun 12:53; calibration loop ends Tue 13:13)
33	308891	https://its.cern.ch/jira/browse/ATR-15068 (ptag data16_cos, duration 290.6m, 2183101 events, ATLAS Ready lumi 0.00/nb, ended Sun 18:01; calibration loop ends Tue 18:13)
34	308979	https://its.cern.ch/jira/browse/ATR-15092 ALFA test runs
35	308982	https://its.cern.ch/jira/browse/ATR-15092 ALFA test runs
36	309010	https://its.cern.ch/jira/browse/ATR-15092 ALFA test runs
37	309039	https://its.cern.ch/jira/browse/ATR-15092 ALFA test runs
38	309074	https://its.cern.ch/jira/browse/ATR-15092 ALFA test runs
39	309165	https://its.cern.ch/jira/browse/ATR-15092 ALFA test runs
40	309074	https://its.cern.ch/jira/browse/ATR-15107 ALFA test runs
41	309165	https://its.cern.ch/jira/browse/ATR-15107 ALFA test runs
42	309311	https://its.cern.ch/jira/browse/ATR-15118 Low-mu run (ptag data16_13TeV, duration 311.5m, 8828859 events, ATLAS Ready lumi 31.04/nb, ended Sun 05:38; calibration loop ends Tue 05:55)
43	309314	https://its.cern.ch/jira/browse/ATR-15120 Low-mu run (ptag data16_13TeV, duration 403.9m, 24680252 events, ATLAS Ready lumi 6.00/pb, ended Sun 13:20; calibration loop ends Tue 13:22)
44	309346	https://its.cern.ch/jira/browse/ATR-15120 Low-mu run (ptag data16_13TeV, duration 248.0m, 11917675 events, ATLAS Ready lumi 7.42/pb, ended Sun 18:41; calibration loop ends Tue 18:43)
45	309375	https://its.cern.ch/jira/browse/ATR-15127 Runs with very high rate from bad LAr noise constants: https://its.cern.ch/jira/browse/ATR-15125 - (ptag data16_13TeV, duration 427.7m, 15611323 events, ATLAS Ready lumi 52.98/pb, ended Sun 13:20; calibration loop ends Tue 13:22)
46	309390	https://its.cern.ch/jira/browse/ATR-15129 Runs with very high rate bad LAr noise constants: https://its.cern.ch/jira/browse/ATR-15125 - localized large online/offline diff ET in calo & EM clusters; empty jet histograms due to monitoring r
47	309440	https://its.cern.ch/jira/browse/ATR-15129 Problems with LAr noise constants seem to be solved (ptag data16_13TeV, duration 1213.7m, 70685754 events, ATLAS Ready lumi 0.46/fb, ended Wed 06:51; calibration loop ends Fri 06:52)
48	309516	https://its.cern.ch/jira/browse/ATR-15134 (ptag data16_13TeV, duration 1011.3m, 57970122 events, ATLAS Ready lumi 0.38/fb, ended Thu 03:26; calibration loop ends Sat 03:27)
49	309640	https://its.cern.ch/jira/browse/ATR-15150 small changes after LAr noise update: less jets in cracks (ptag data16_13TeV, duration 1515.5m, 60925817 events, ATLAS Ready lumi 0.39/fb, ended Fri 20:58; calibration loop ends Sun 21:00)
50	309674	https://its.cern.ch/jira/browse/ATR-15153 (ptag data16_13TeV, duration 830.3m, 52953962 events, ATLAS Ready lumi 0.36/fb, ended Sat 12:34; calibration loop ends Mon 12:35)
51	309726	https://its.cern.ch/jira/browse/ATR-15153 cosmic run (ptag data16_cos, duration 391.1m, 4674643 events, ATLAS Ready lumi 0.00/nb, ended Sat 23:23; calibration loop ends Mon 23:24)
52	309759	https://its.cern.ch/jira/browse/ATR-15156 (ptag data16_13TeV, duration 1007.6m, 56333116 events, ATLAS Ready lumi 0.38/fb, ended Mon 06:06; calibration loop ends Wed 06:17)
53	309166	https://its.cern.ch/jira/browse/ATR-15158 ALFA run 309166 DQ sign off

run 308084
(pre TS)

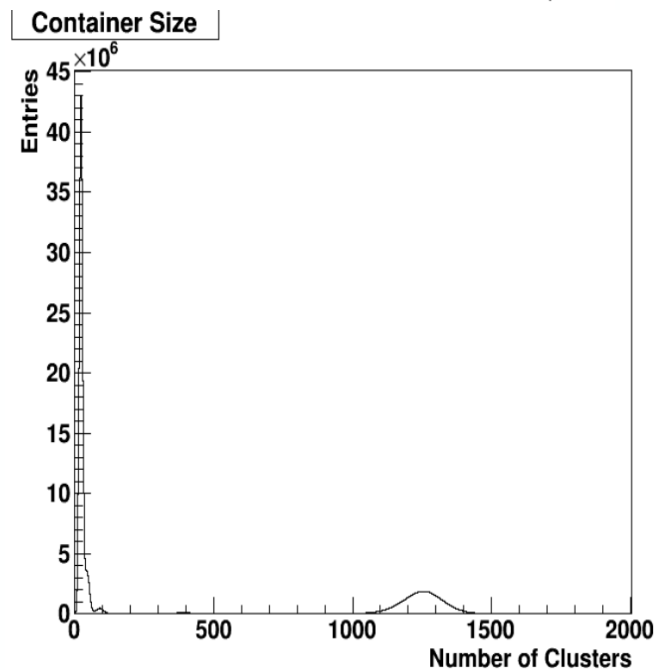
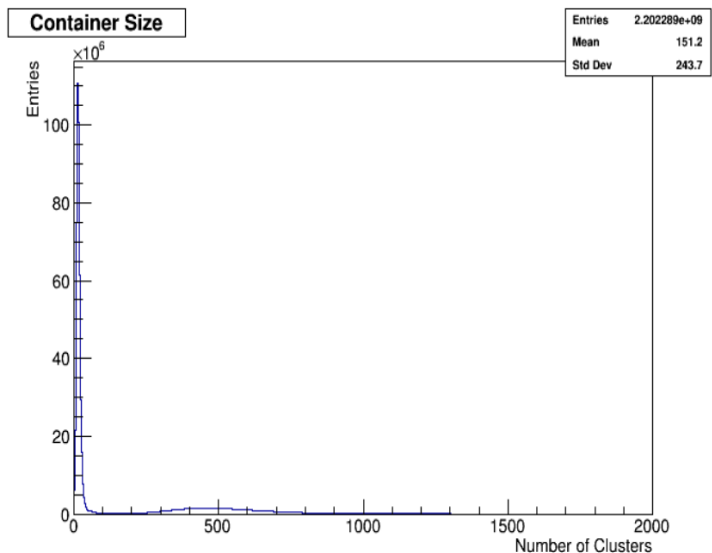


run 309390
(ongoing)



- Effect of bad LAr noise

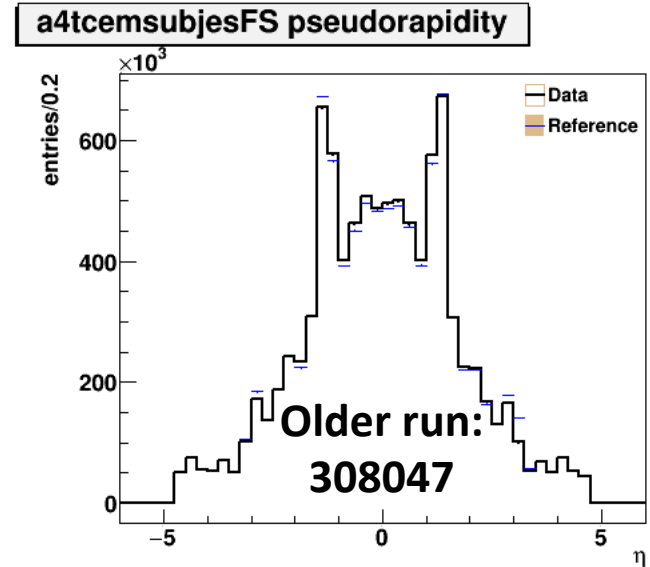
Plots by
Joana
Miguéns



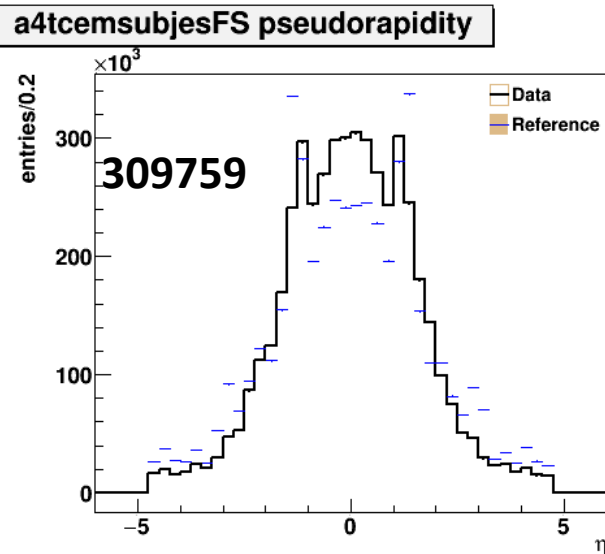
Note: run 308084 plots at: <https://>

After the LAr noise fix

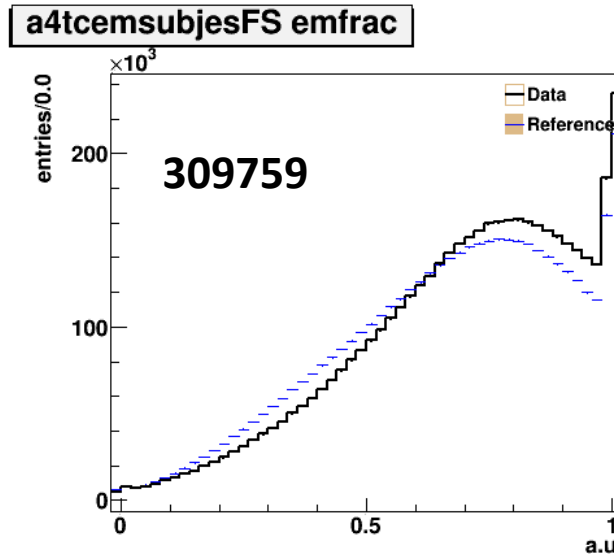
- Some changes left after the LAr noise constants were updated:
 - Slightly higher Emfrac
 - Slightly lower Njets
 - Better behaviour in transition regions
 - Affects only low-ET jets: a4tcemsubjesFS container shown here)
 - Also MHT slightly lower
- Could also come from bunch structure, but comparison with older run rules this out
 - 2208 bunches in 23 trains for both example runs



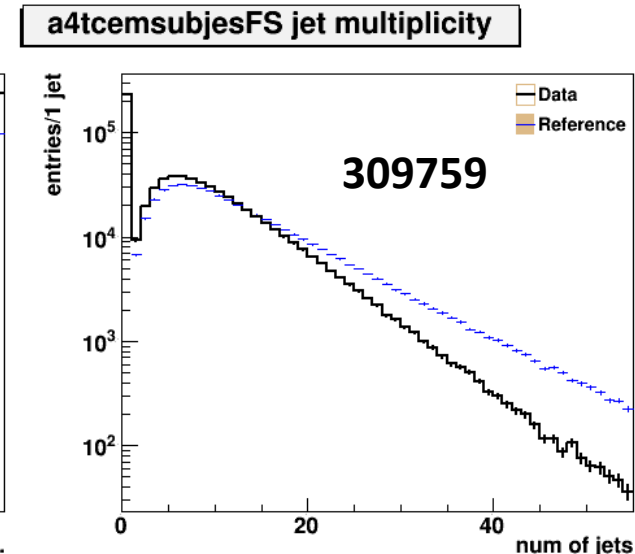
Run 308047, 2/express_express
/HLT/TRJET/SHIFTER/HLT/a4tcemsubjesFS/HLTJet_eta@Shifter



Run 309759, 1/tmp_express_express
/HLT/TRJET/SHIFTER/HLT/a4tcemsubjesFS/HLTJet_eta@Shifter



Run 309759, 1/tmp_express_express
/HLT/TRJET/SHIFTER/HLT/a4tcemsubjesFS/HLTJet_emfrac@Shifter



Run 309759, 1/tmp_express_express
/HLT/TRJET/SHIFTER/HLT/a4tcemsubjesFS/HLTJet_n@Shifter

Reprocessing tests

- Several reprocessings showed up in the last few days: nothing noteworthy

8	Reprocessings:	
9	ATR-14974	https://its.cern.ch/jira/browse/ATR-14974 Repro TestHLT,20.11.0.26.3, AtlasProduction,20.7.6.7, Physics_pp_v6 tight
10	ATR-15012	https://its.cern.ch/jira/browse/ATR-15012 Repro with AtlasCAFHLT,20.11.1.4.1 MC_pp_v6 tightperf, AtlasProduction,20.7.7.5
11	ATR-15013	https://its.cern.ch/jira/browse/ATR-15013 Repro with AtlasCAFHLT,20.11.1.4.1 Physics_pp_v6 tight, AtlasProduction,20.7.7.5
12	ATR-15055	https://its.cern.ch/jira/browse/ATR-15055 Sign off on the new ID alignment
13	ATR-15058	https://its.cern.ch/jira/browse/ATR-15058 Reprocessing for validation of CAFHLT,20.11.1.5.1 with EB run 307126 and MC_pp_v6_tightperf Menu RerunLVL1=True
14	ATR-15112	https://its.cern.ch/jira/browse/ATR-15112 Request from DataQuality to check a new release to be deployed at Tier
15	ATR-15070	https://its.cern.ch/jira/browse/ATR-15070 HLT reprocessing to test MC_HI_v4 menu in 20.11.1.5.1 AtlasCAFHLT for p-Pb
16	ATR-15098	https://its.cern.ch/jira/browse/ATR-15098 Reprocessing for validation of TestHLT,20.11.1.5.3 with EB run 302956 and Physics_pp_v6 tight Menu.
17	ATR-15099	https://its.cern.ch/jira/browse/ATR-15099 Reprocessing for validation of CAFHLT,20.11.1.6.1 with EB run 307126 and physics_pp_v6_tight Menu
18	ATR-15100	https://its.cern.ch/jira/browse/ATR-15100 Reprocessing for validation of CAFHLT,20.11.1.6.1 with EB run 307126 and MC_pp_v6_tightperf Menu
19	ATR-15144	https://its.cern.ch/jira/browse/ATR-15144 Reprocessing for validation of CAFHLT,20.11.1.7.1 with EB run 307126 and physics_pp_v6_tight Menu
20	ATR-15145	https://its.cern.ch/jira/browse/ATR-15145 Reprocessing for validation of CAFHLT,20.11.1.7.1 with EB run 307126 and MC_pp_v6_tightperf Menu
21	ATR-15154	https://its.cern.ch/jira/browse/ATR-15154 Reprocessing for validation of CAFHLT,20.11.1.7.1 with new EB run 309640 and MC_pp_v6_tightperf Menu
22	ATR-15155	https://its.cern.ch/jira/browse/ATR-15155 Reprocessing for validation of CAFHLT,20.11.1.7.1 with new EB run 309640 and physics_pp_v6_tight Menu

Other

- Will update instructions today to:
 - Have sub-page to collect a catalogue of past problems (old idea... just need a bit of time)
 - Add link to googledocs spreadsheet
 - Very useful as a notebook during shift and as a record later

The screenshot shows a Google Spreadsheet with the following data:

	A	B	C
1	Meetings:		
2	TrigOps daily	Daily 9:00 / 9:30	
3	Run weekly	Tuesday 9:30	
4	MET	Wednesday 17:00	
5	JET	Monday 14:00	
6			
7			
8	Reprocessings:		
9	ATR-14974	https://its.cern.ch/jira/browse/ATR-14974	Repro TestHLT,20.11.0.26.3, AtlasProduction,20.7.6.7, Physics_pp_v6 tight
10	ATR-15012	https://its.cern.ch/jira/browse/ATR-15012	Repro with AtlasCAFHLT,20.11.1.4.1 MC_pp_v6 tightperf, AtlasProduction,20.7.7.5
11	ATR-15013	https://its.cern.ch/jira/browse/ATR-15013	Repro with AtlasCAFHLT,20.11.1.4.1 Physics_pp_v6 tight, AtlasProduction,20.7.7.5
12	ATR-15055	https://its.cern.ch/jira/browse/ATR-15055	Sign off on the new ID alignment
13	ATR-15058	https://its.cern.ch/jira/browse/ATR-15058	Reprocessing for validation of CAFHLT,20.11.1.5.1 with EB run 307126 and MC_pp_v6_tightperf Menu RerunLVL1=True
14	ATR-15112	https://its.cern.ch/jira/browse/ATR-15112	Request from DataQuality to check a new release to be deployed at Tier
15	ATR-15070	https://its.cern.ch/jira/browse/ATR-15070	HLT reprocessing to test MC_HI_v4 menu in 20.11.1.5.1 AtlasCAFHLT for p-Pb
16	ATR-15098	https://its.cern.ch/jira/browse/ATR-15098	Reprocessing for validation of TestHLT,20.11.1.5.3 with EB run 302956 and Physics_pp_v6 tight Menu.
17	ATR-15099	https://its.cern.ch/jira/browse/ATR-15099	Reprocessing for validation of CAFHLT,20.11.1.6.1 with EB run 307126 and physics_pp_v6_tight Menu
18	ATR-15100	https://its.cern.ch/jira/browse/ATR-15100	Reprocessing for validation of CAFHLT,20.11.1.6.1 with EB run 307126 and MC_pp_v6_tightperf Menu
19	ATR-15144	https://its.cern.ch/jira/browse/ATR-15144	Reprocessing for validation of CAFHLT,20.11.1.7.1 with EB run 307126 and physics_pp_v6_tight Menu
20	ATR-15145	https://its.cern.ch/jira/browse/ATR-15145	Reprocessing for validation of CAFHLT,20.11.1.7.1 with EB run 307126 and MC_pp_v6_tightperf Menu
21	ATR-15154	https://its.cern.ch/jira/browse/ATR-15154	Reprocessing for validation of CAFHLT,20.11.1.7.1 with new EB run 309640 and MC_pp_v6_tightperf Menu
22	ATR-15155	https://its.cern.ch/jira/browse/ATR-15155	Reprocessing for validation of CAFHLT,20.11.1.7.1 with new EB run 309640 and physics_pp_v6_tight Menu
23			
24			
25	Runs to sign off:		
26	308306	https://its.cern.ch/jira/browse/ATR-15052	(ptag data16_cos, duration 786.5m, 1912734 events, ATLAS Ready lumi 0.00/nb, ended Wed 09:26; calibration loop ends Fri 09:33)
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