



L1 DOC Report of Week 29

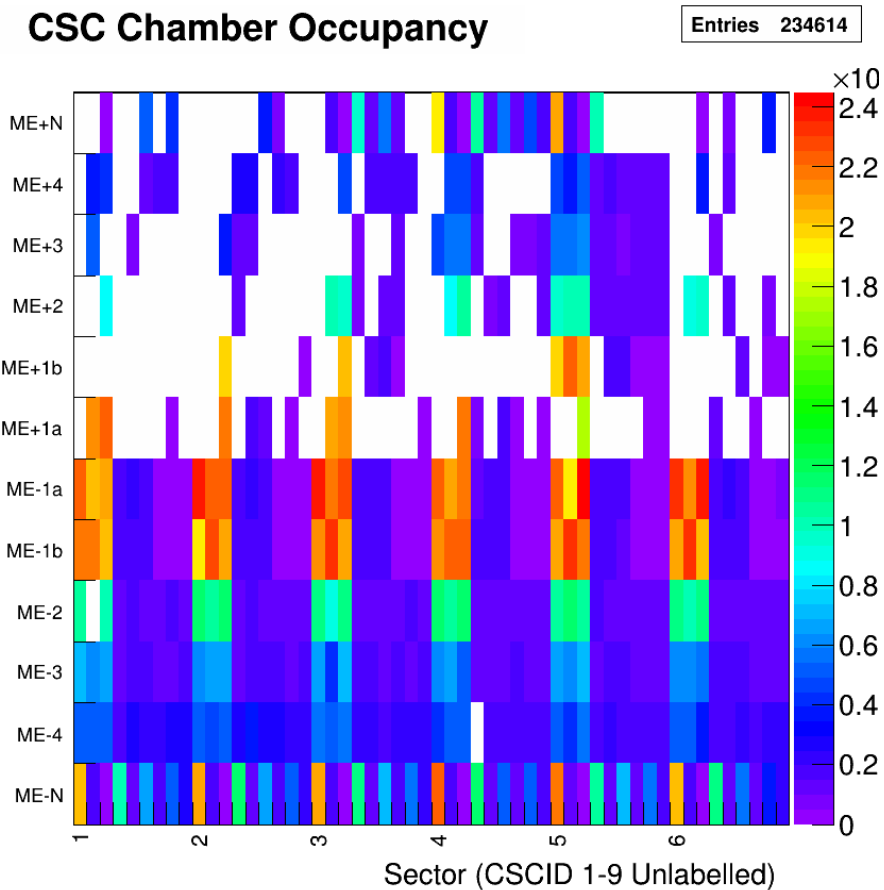
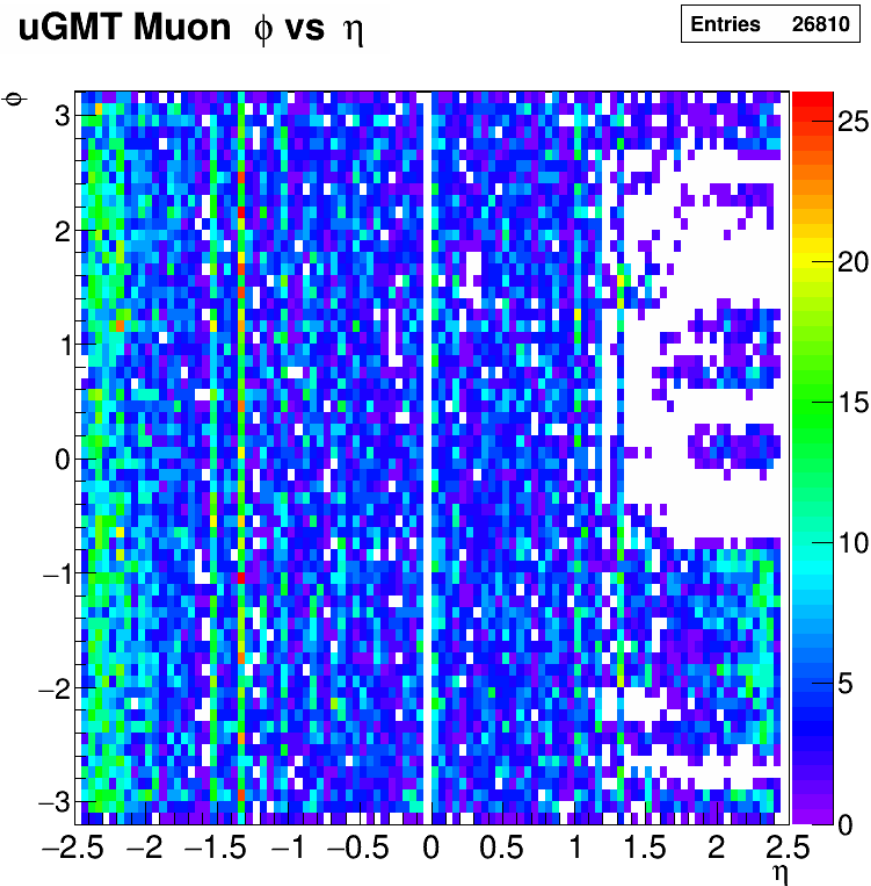
Wei Shi

Activities

- L1v2 menu tested successfully in inter-fill and collisions
 - Now deployed in normal collision mode
 - JIRA: <https://its.cern.ch/jira/browse/CMSHLT-1940>
- Rate monitoring failure: low LCT occupancy in EMTF positive endcap
 - Run 320007-320009, took > 1hr for shifters to notice it from asymmetric DQM plot
 - Discuss ideas on how to catch this case promptly instead from DQM plots
 - Reconfigure trigger from central DAQ solved the problem
 - Never have this type of low occupancy before, not clear what is the cause so far
 - EMTF SWATCH showed several CSC input link ID mismatches
 - Might be related to an earlier issue where the EMTF FED 1385 was in OUT_OF_SYNC TTS state
 - <http://cmsonline.cern.ch/cms-elog/1053942>

Back Up

Low Occupancy in online DQM Plots



EMTF test new CPPF timing alignment

- Wednesday
 - Test in cosmic run 319879: similar performance to old setting
- Thursday
 - Test in collision run 319914: better performance
 - NEW setting: BX0—>96.16% BX-1—>3.5% BX1—>1.15%
 - OLD setting: BX0—>68.77% BX-1—>30.66% BX1—>0.92%
 - Keep the new setting until machine development
- JIRA
 - <https://its.cern.ch/jira/browse/CMSLITOPS-128>

High FinOR rate caused by DT

- Wednesday
 - DT DCS issue in Wedge 0
 - Masked two channels and tested successfully in all run modes
 - <http://cmsonline.cern.ch/cms-elog/1053409>
- Thursday
 - DT access and replaced board
 - TwinMux unmasked channels, key updated and tested successfully
 - <http://cmsonline.cern.ch/cms-elog/1053565>

Miscellaneous

- Wednesday:
 - HCAL updated config key “Physics2018v6d” for regular radiation damage correction
 - <https://its.cern.ch/jira/browse/CMSLITOPS-129>
 - Memory problem in TwinMux from last week
 - TwinMux swatch cell is recompiled, reinstalled and restarted to monitor memory usage
 - <http://cmsonline.cern.ch/cms-eelog/1053323>
 - <https://its.cern.ch/jira/browse/CMSLITOPS-132>
- Thursday:
 - OMTF RS key update to mask the only bad CSC link
 - <http://cmsonline.cern.ch/cms-eelog/1053359>