PHOS DQM

Yuri Kharlov

DQM meeting

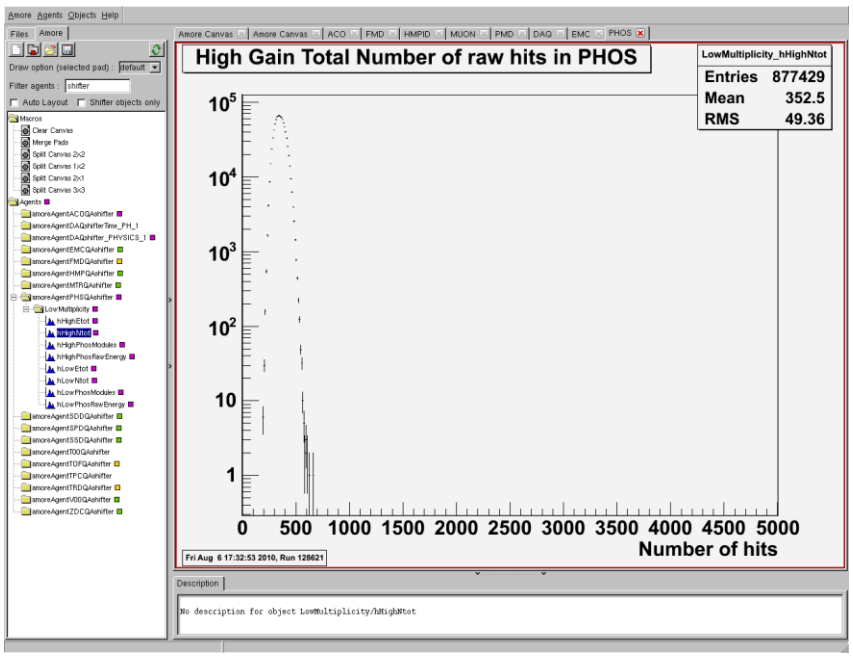
15 Jule 2011

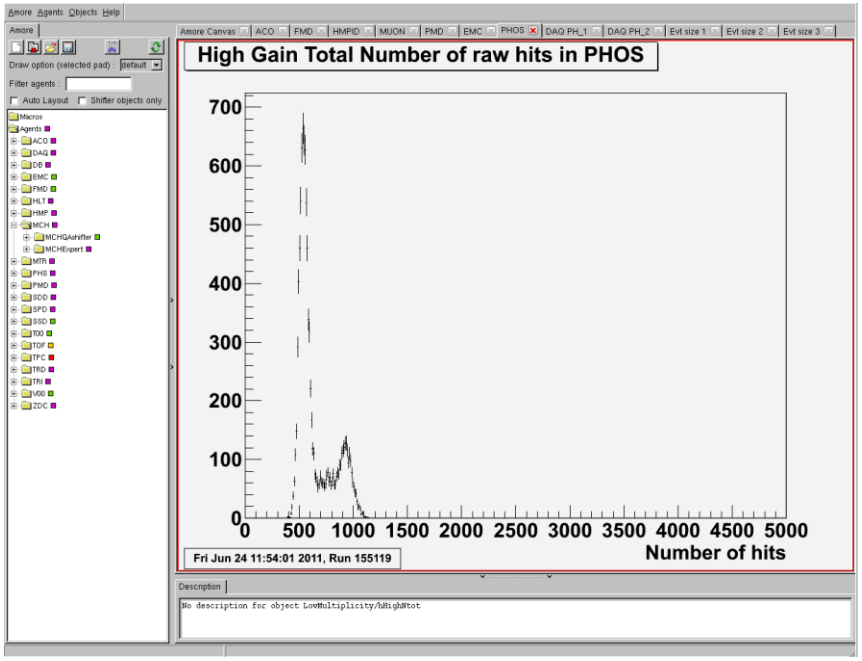
PHOS status

- PHOS is correctly described at the DQM Twiki https://twiki.cern.ch/twiki/bin/view/AliceEVE/EVEDQMShifterInformation
- PHOS description was added to AMORE
- Questions and answer for the DQM shift trainees were provided at https://twiki.cern.ch/twiki/bin/view/AliceEVE/EVETEST
- PHOS DQM plot behavour was finally understood by the PHOS experts, instructions were properly updated.

PHOS DQM plot

Number of hits in PHOS reflects mainly the noise status: almost all hits come from noise. Change in the noise status can be an indication or wrong FEE initialization.

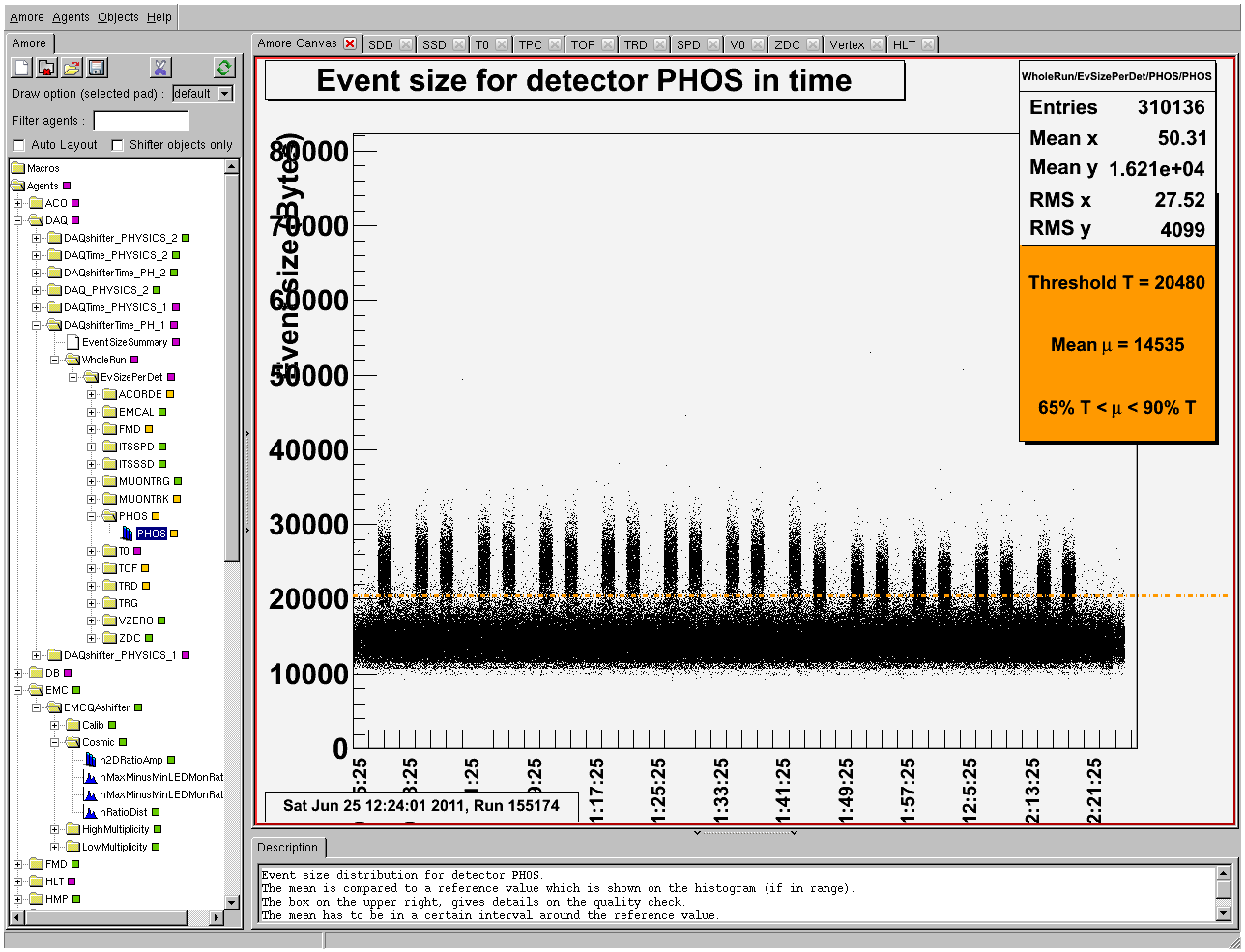




For a long time DQM shifters worried about a double peak at the PHOS DQM plot. In June 2011 it was noticed that double peak is correlated with event size oscillations (next slide). PHOS noise depends on readout rate.

A nature of the double peak was understood, it is not a reason to call PHOS on-call expert anymore

Trend plot of PHOS event size



In June 2011, ALICE has operated with two trigger classes with different L2a rates: 236 s for rare events (50-100 Hz) + 3 s for min.bias trigger (1000 Hz). This periodical trigger structure is reflected in the PHOS event size.

DQM open issues

1. Provide Thresholds and Alarms (ACORDE, PHOS, PMD, SDD)

   Working on it.

2. Verify and state if your quality flag is meaningful

   For the moment PHOS does not fill the quality flat. To be developed