EMCal-RICH Trigger Monitoring

* Hot/Noisy Channel Monitoring
* Physics Monitoring

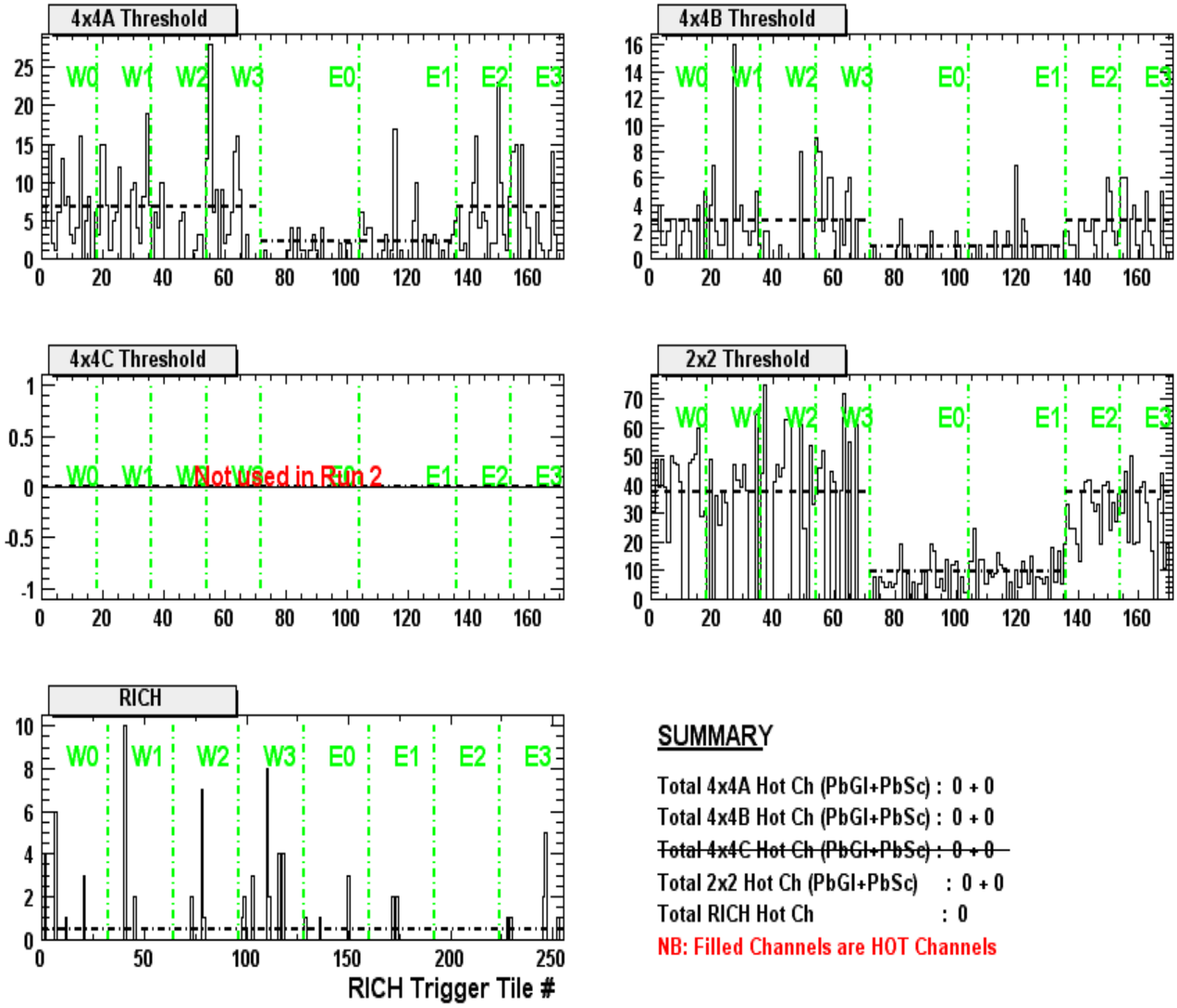
Hot/Noisy Channel Monitoring

* Monitoring
    - implemented in the ONLINE framework
    - monitored by SA2 in every run
    - all the monitoring figures in the web

* Generating HEX file
    - generates new HEX files to mask off hot channels
    - downloaded in the next run to the ROC
    - also put into the OBJY database

- Everything is documented and accessible through web from trigger home page

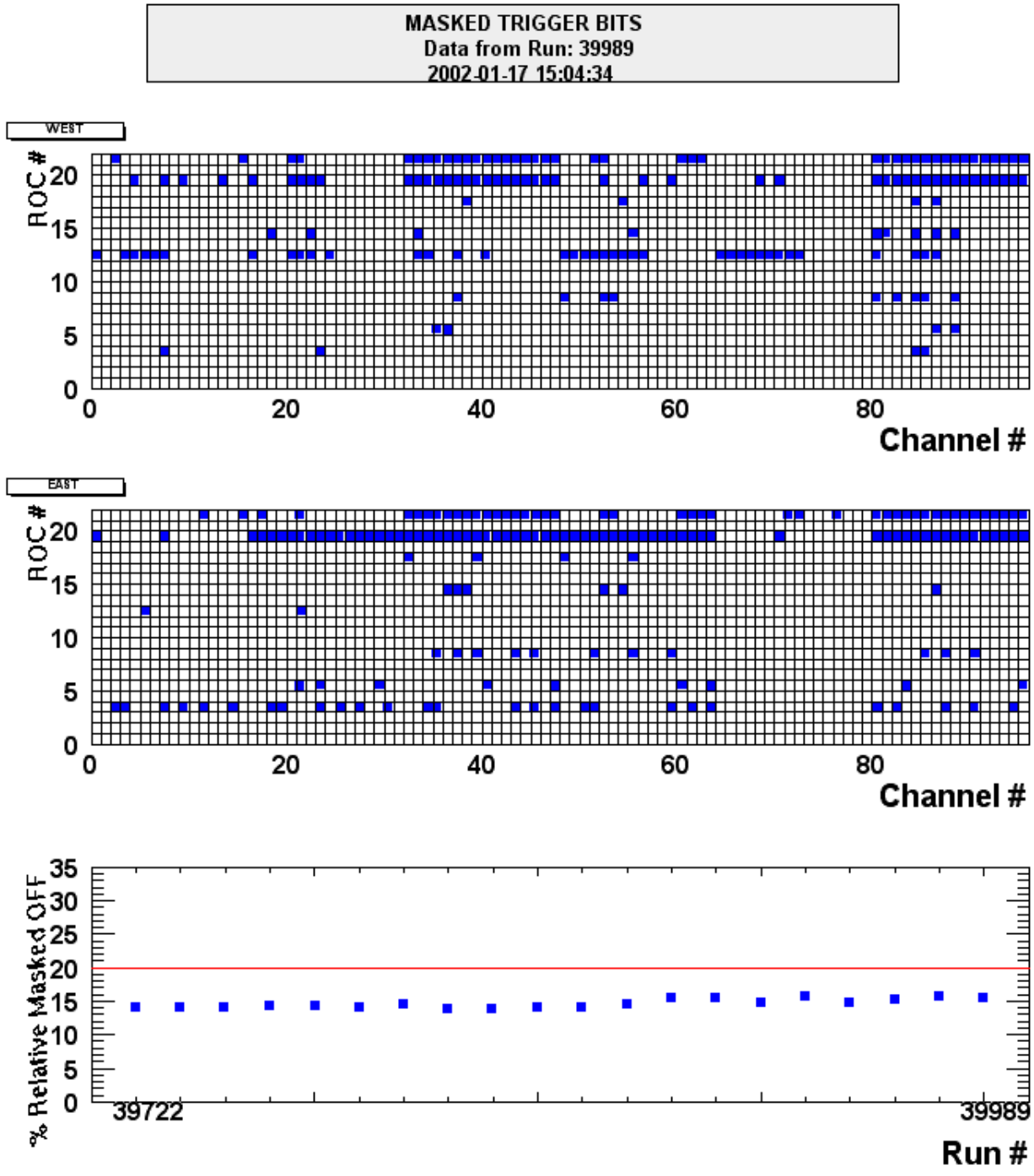
EMC + RICH TOWER HIT
Data from Run: 39989
2002-01-17 15:04:27



SUMMARY

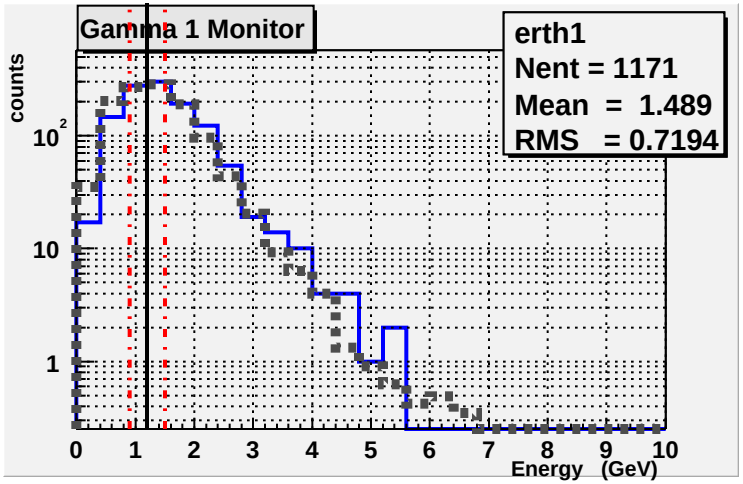
Total 4x4A Hot Ch (PbGl+PbSc) : 0 + 0
Total 4x4B Hot Ch (PbGl+PbSc) : 0 + 0
~~Total 4x4C Hot Ch (PbGl+PbSc) : 0 + 0~~
Total 2x2 Hot Ch (PbGl+PbSc) : 0 + 0
Total RICH Hot Ch : 0

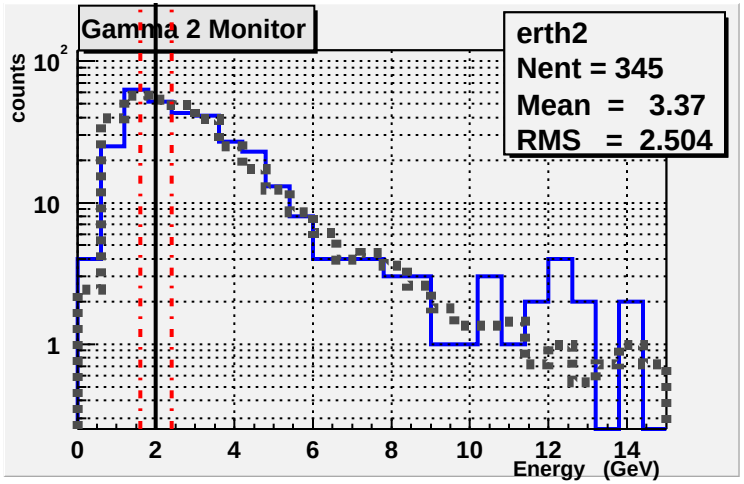
NB: Filled Channels are HOT Channels

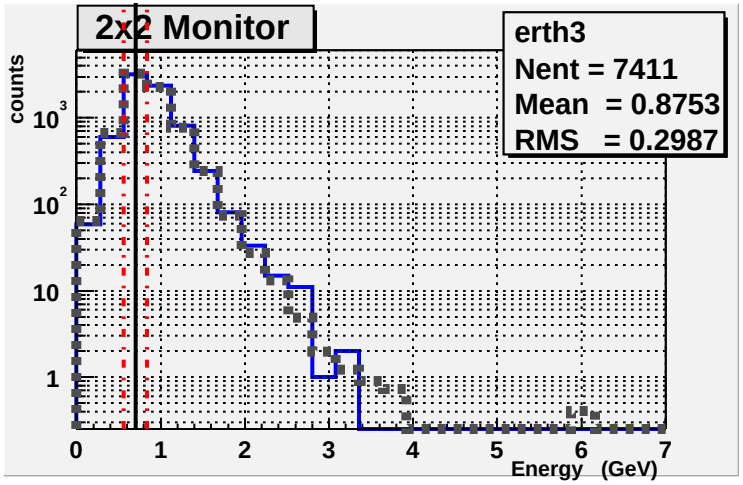

MASKED TRIGGER BITS
Data from Run: 39989
2002-01-17 15:04:34
WEST
ROC #
Channel #
EAST
ROC #
Channel #
% Relative Masked OFF
39722
39989
Run #

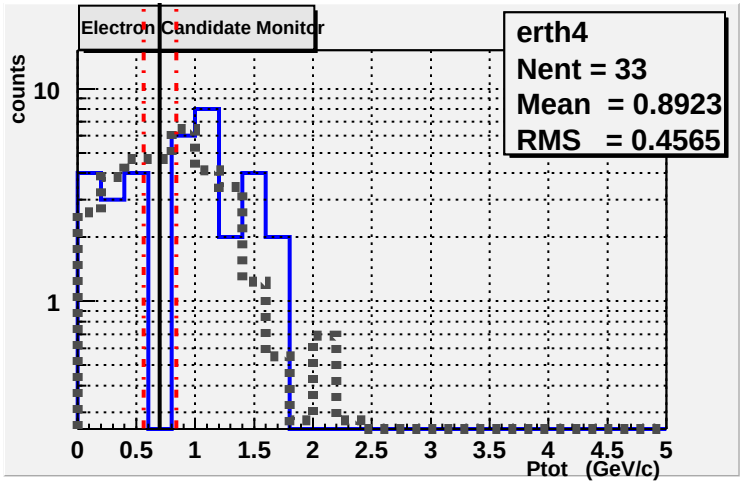
Physics Monitoring

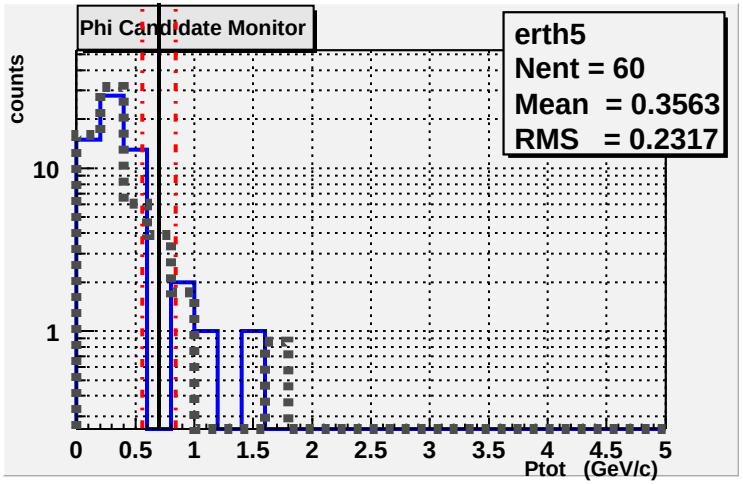
- monitoring started on Jan 16, Run #39899
- monitored by SA2 in every run (files 0 - 3)
- not implemented in the online framework
    - Use L2Software to get EMC energy and alectron candidate from PRDF file
    - Write out ASCII data file
    - Execute Plotting Macro to plot various histograms
- online physics plots (*.ps) are on the disk (/scratch/phenixlvl1/ert/montest)
- soon it will be accessible trough web
- Everything is documented and accessible through web from trigger home page











Summary

Run Number : 40462

Estimate of actual G1 Cluster Events (E > 1.2 GeV): 0.64

Estimate of actual G2 Cluster Events (E > 2.0 GeV): 0.55

Estimate of actual 2x2 Cluster Events (E > 0.7 GeV): 0.74

Estimate of actual Electron Candidate Triggers: 0.62

Estimate of actual Phi Candidate Triggers: 0.05

Reference Levels : G1=0.63, G2=0.56, 2x2=0.75, EC=0.62, PhiC=0.07