



Online Monitoring Update

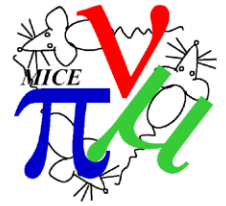
Rhys Gardener

CM42
RAL



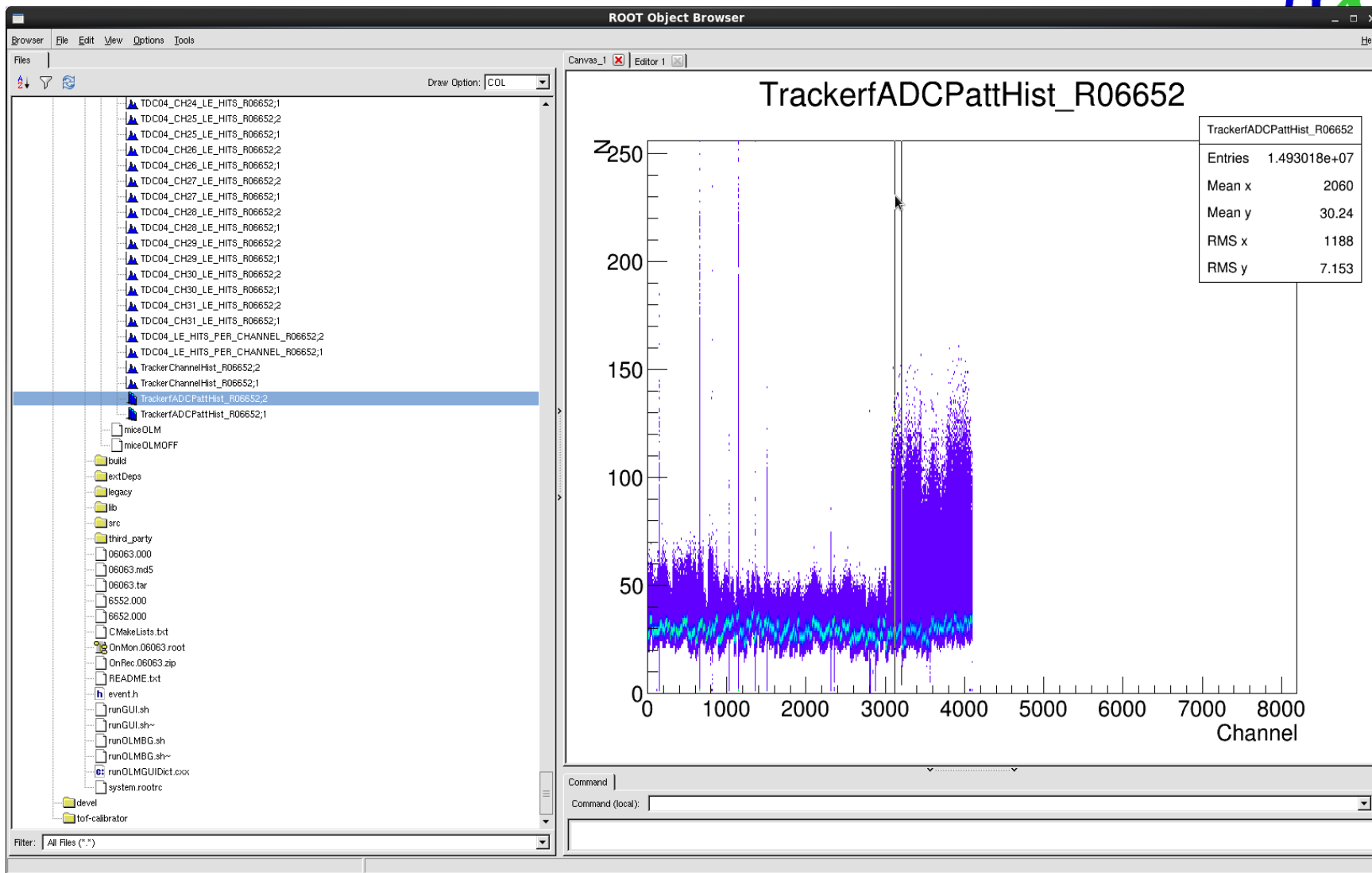
Outline

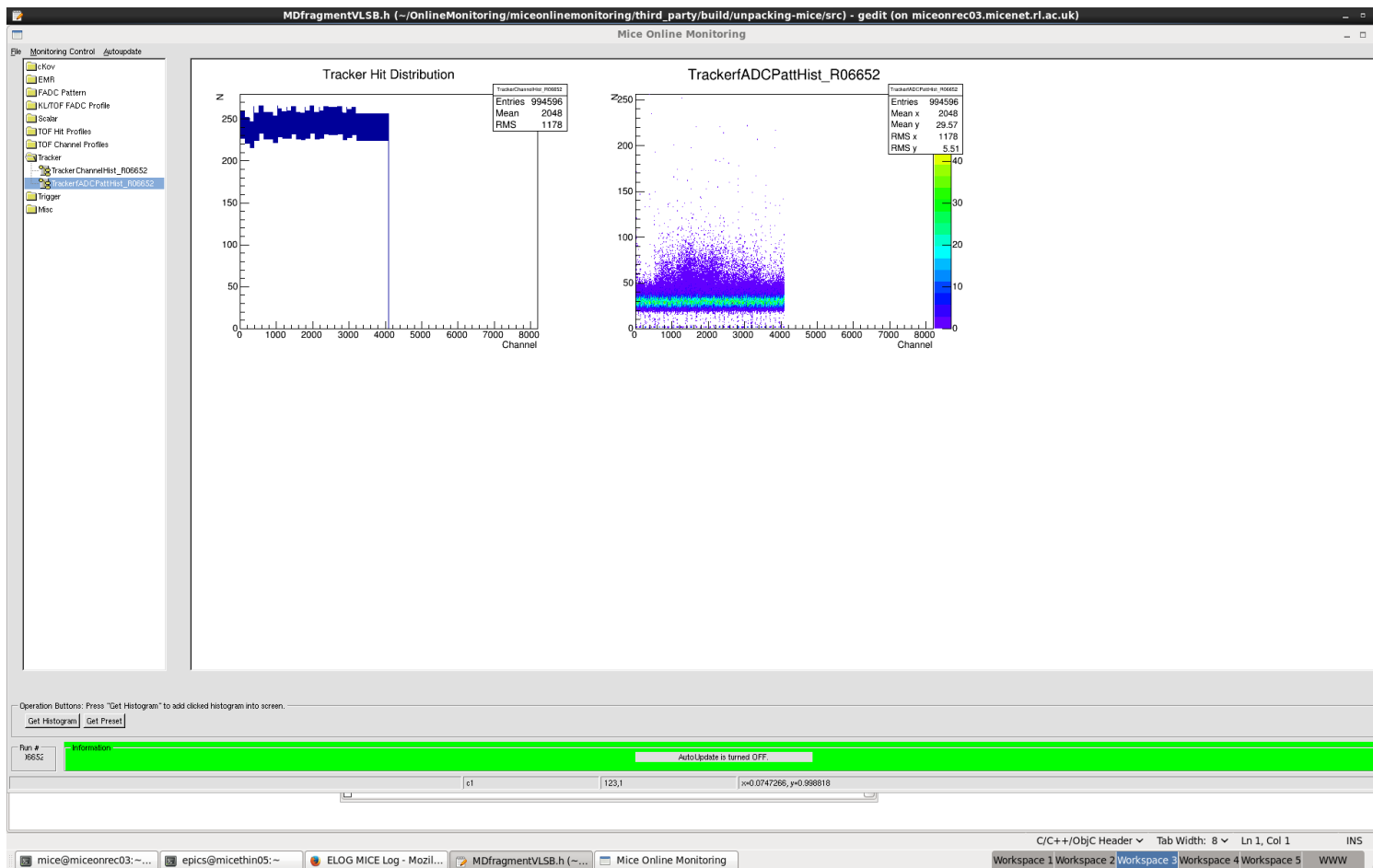
- › Updates from Mock Data Runs
- › Reference Data
- › Comparison progress
- › Belgrade joins the team



General Updates

- Tracker Plots are now shown correctly in OnMon.
 - Previously wasn't getting correct boardID. Now fixed.
- Now using latest unpacking.
 - Fixed install scripts to reflect this.
- General GUI debugging.
 - Solved issues with communication between GUI and BG process.



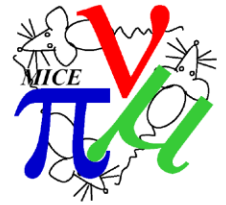


Reference Data

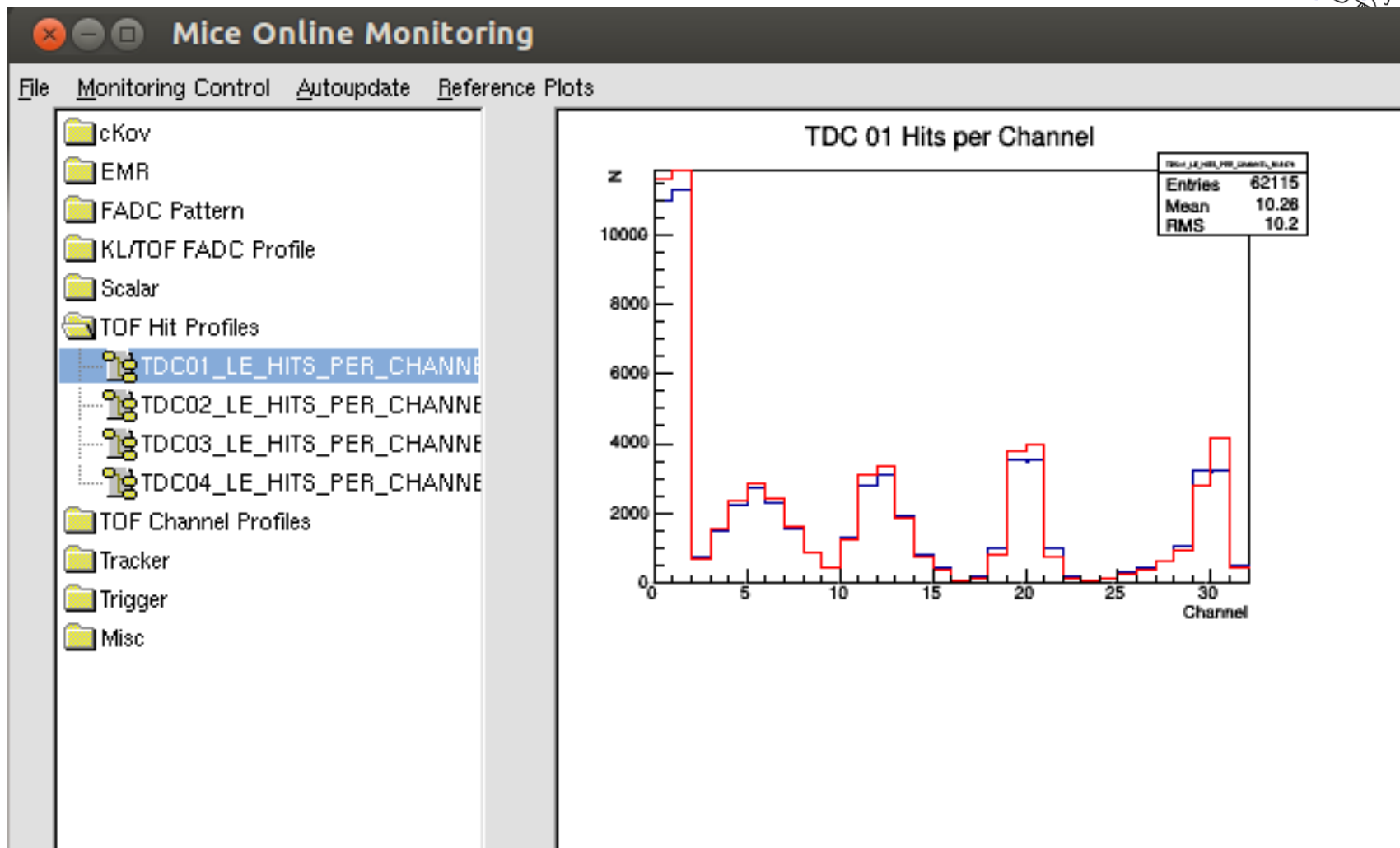


- Since last CM, have received information from detector groups regarding desired plots
 - Was some confusion re: OnMon vs OnRecon
- Now know what plots need more careful monitoring
 - Will produce a list to circulate soon (sorry about delay)
- Still waiting for full data sets to begin collecting reference data.

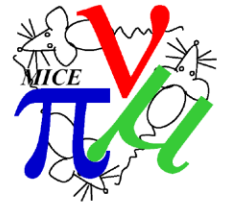
Comparison



- Still persisting with the Chi2Test method
- Issues with making comparisons on every spill.
 - Too many histograms = slowdown
 - Resolve by comparing every 10 spills.
- Still many bugs to resolve.
 - Should be ready for early July.
- Now have an overlay of the reference data over the live data ready to view.
 - Long requested feature!



Belgrade



- Team from Belgrade has offered to help with the Online Monitoring
- 2 main tasks assigned:
 - Simplify the communication between the GUI and BG process
 - Upload the plots generated by the OnMon to a webserver (similar to the OnRec).

I'm sure they'll say hi!



Conclusions

- Bunch of bugs to fix before the Histogram Comparison method is ready and reliable.
- Reference data hopefully collected first weeks of full detector running.