

Online Monitoring Update Rhys Gardener

CM43 RAL

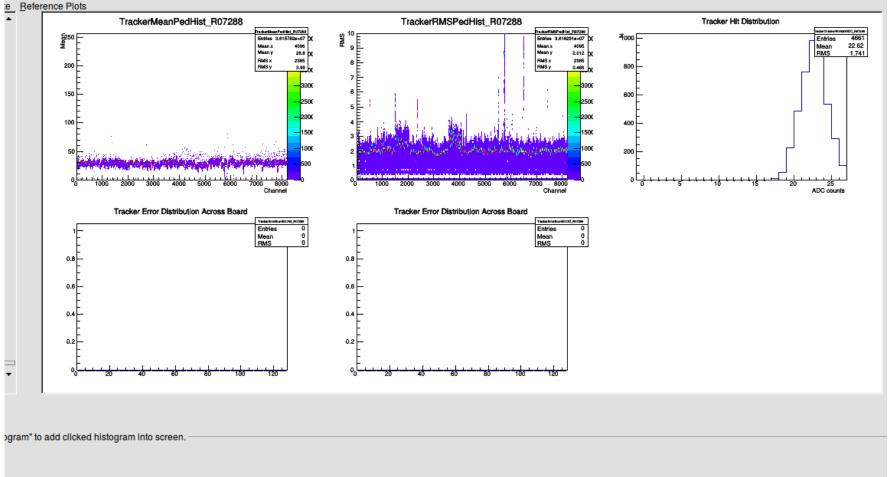
General Updates (since last CM)



- Online Monitoring/EPICS communication is running
 - Currently ends error signals in case of unpacking exception
- New Tracker plots
 - Mean and RMS over the pedestal per channel
 - Dist. of mean per channel.
 - Primarily for automatic checking of tracker data.
- >ctrl-c signal catching.
 - OnMon plots should be OK if ctrl-c is used to exit.

Data comparison will soon be ready after I've had a chance to do some testing.





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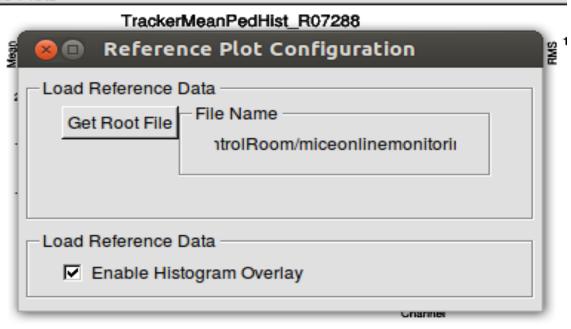


Automatic Checks

- Have been waiting for data sets from StepIV running for testing
- Can now do some testing with recent data collected in September/October.
- Reference data will be stored in 1 root file.
 - Tracker data possible exception...
- Selectable by expert should the need arise.
 - Through GUI or command line option when running script.



Reference Plots



Tracker Error Dietribution Acrose Board

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Tracker Updates

- > Tracker data is compared slightly differently...
- Only mean/RMS of pedestal is compared to reference data.
 - ~90% done, 1 issue remains...
- > Signal can be sent to epics should mean/RMS exceed limit
 - Limit to be decided?
- > This is also an option for other detector groups if this sounds tasty.

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Conclusions/Todo

Tracker monitoring/auto checks at minimum to be implemented in MLCR by end of November

To do: Ensure alarm handler classes contain OnMon.

> To do: OnMon on all Onrec machines, + EPICS.