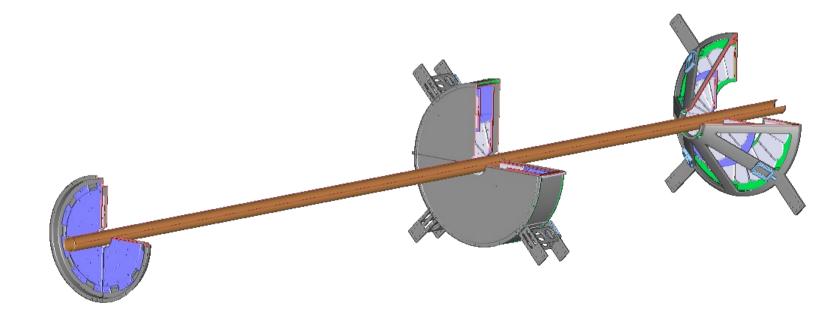


FMD DQM



Christian Holm Christensen

- Agents
- UI
- The logbook LOGY problem
- Quality Checking
- Example plots



Agents



- Standard 'QA' agent
 - Issues:
 - Missing log Y scale on ADC spectra in logbook (more later)
 - DQM shifter should put in RO/decoding error histogram in layout
 - Recent changes:
 - FEE now fully powered during TECHNICAL → pedestal @ 0, smaller data size. Wiki updated.
- Pattern (event display) agent.
 - Issues:
 - Need copy of DA output to probably display data copied 'by hand'
 - Not run automatically
- DAs publish summary of calibration results
 - Issues:
 - Should be propagated to logbook (more later)
- Coming up: Agent to propagate DA plots to log-book

Uls



- Standard 'DQM' viewer.
- Custom QA viewer
 - 2 tabs shifter and expert. Needs a bit of rework.
- Custom Pattern (event display)
 - Shows the hits on the FMD in 2D projections. Calculates rough hits/cm²
- Custom calibration display
 - Show summary output from DAs
 - Option to browse to 'sectors' (256 or 512 channels)
 - Useful for varification of calibration runs.

The logbook LOGY problem

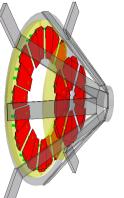


- Images for logbook made by AliQACheckerBase::MakeImage
 - Does not do LOGY at all
 - Initial patch looked at TH1::GetDrawOption (set by AliFMDQADataMakerRec) to set log scale failed because draw option saved in pad not histogram.
- Overloaded with AliFMDQAChecker::MakeImage
 - Put string "[log]" in axis title (in AliFMDQADataMakerRec), and set log scale on corresponding axis - remove sub-string for nice display. Failed!
 - Reason: AMORE agent calls MakeImage twice sub-string gone second time around.
 - Solution: Restore "[log]" to axis title post-drawing
- Changes committed to SVN and ported to release
 - Awaiting installation of release at P2
- Other solutions:
 - Use a TList (rather than TobjArray) when propagating objects (allow setting perobject option).

Quality Checking

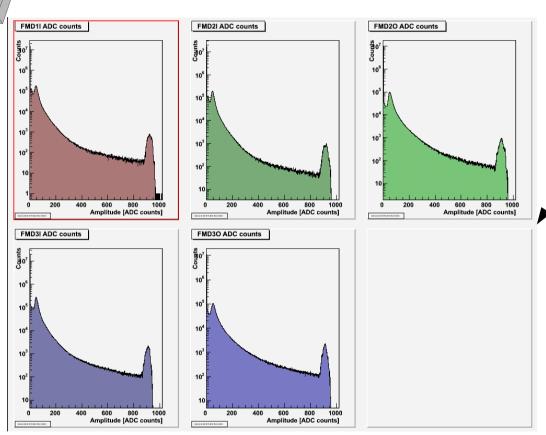


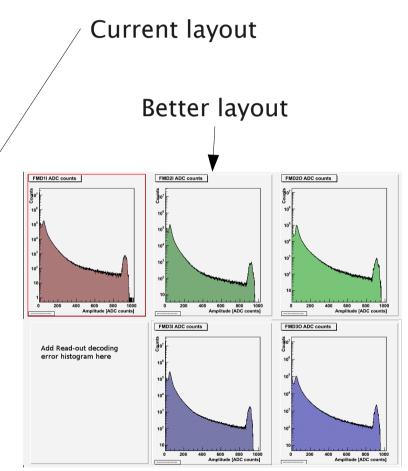
- AliFMDQAChecker does very simple checks.
 - Basically good if there's data.
 - Could be elaborated upon needs a bit of thought.
 - Check that enough channels have data
 - Perhaps try to estimate 1st MIP peak location using fits.
 - ... ideas welcome

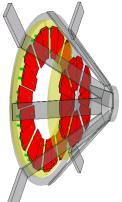


Example plots QA – online



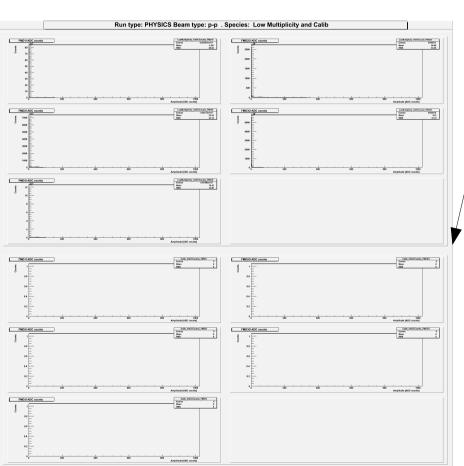






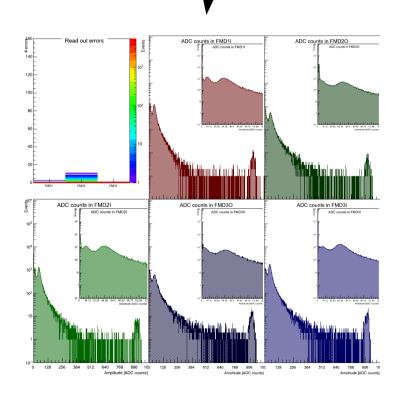
Example plots QA – logbook

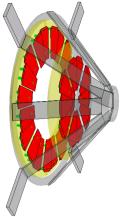




Current layout (unusable)

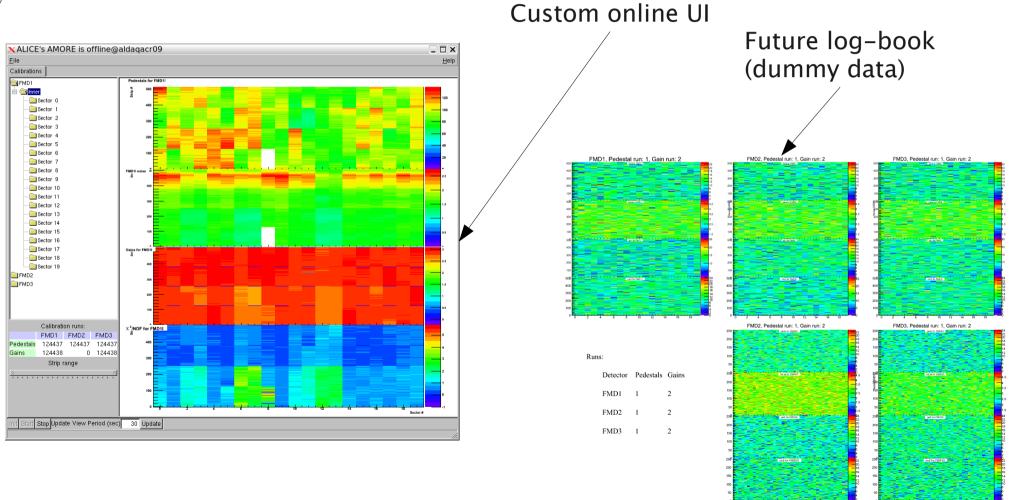




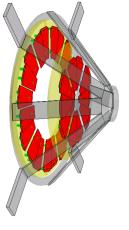


Example plots Calibrations



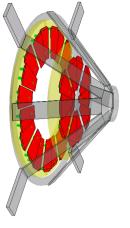


15/07/11





15/07/11





15/07/11 10