

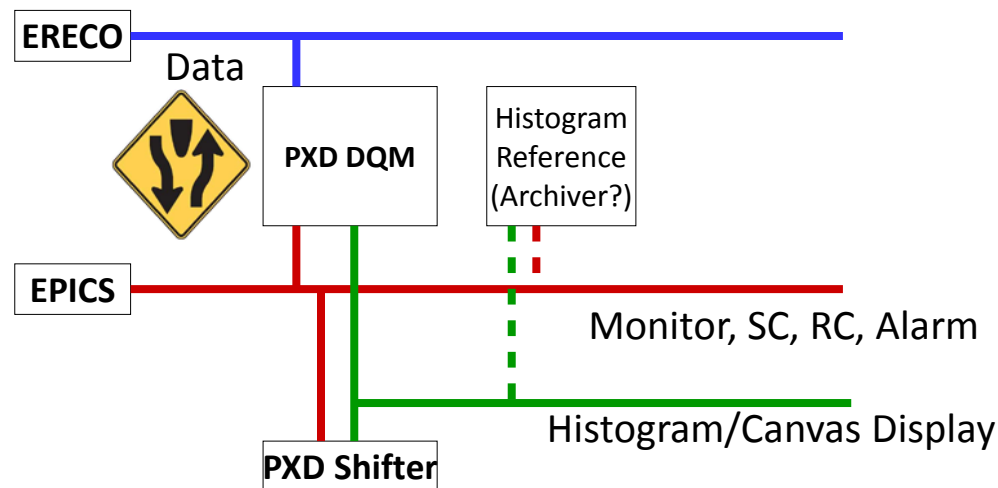
Status of PXD DQM

- DQM Decisions at last B2GM
- DQM at basf2 Level
- Work in Progress

Matthias Hoek

Decisions at last B2GM

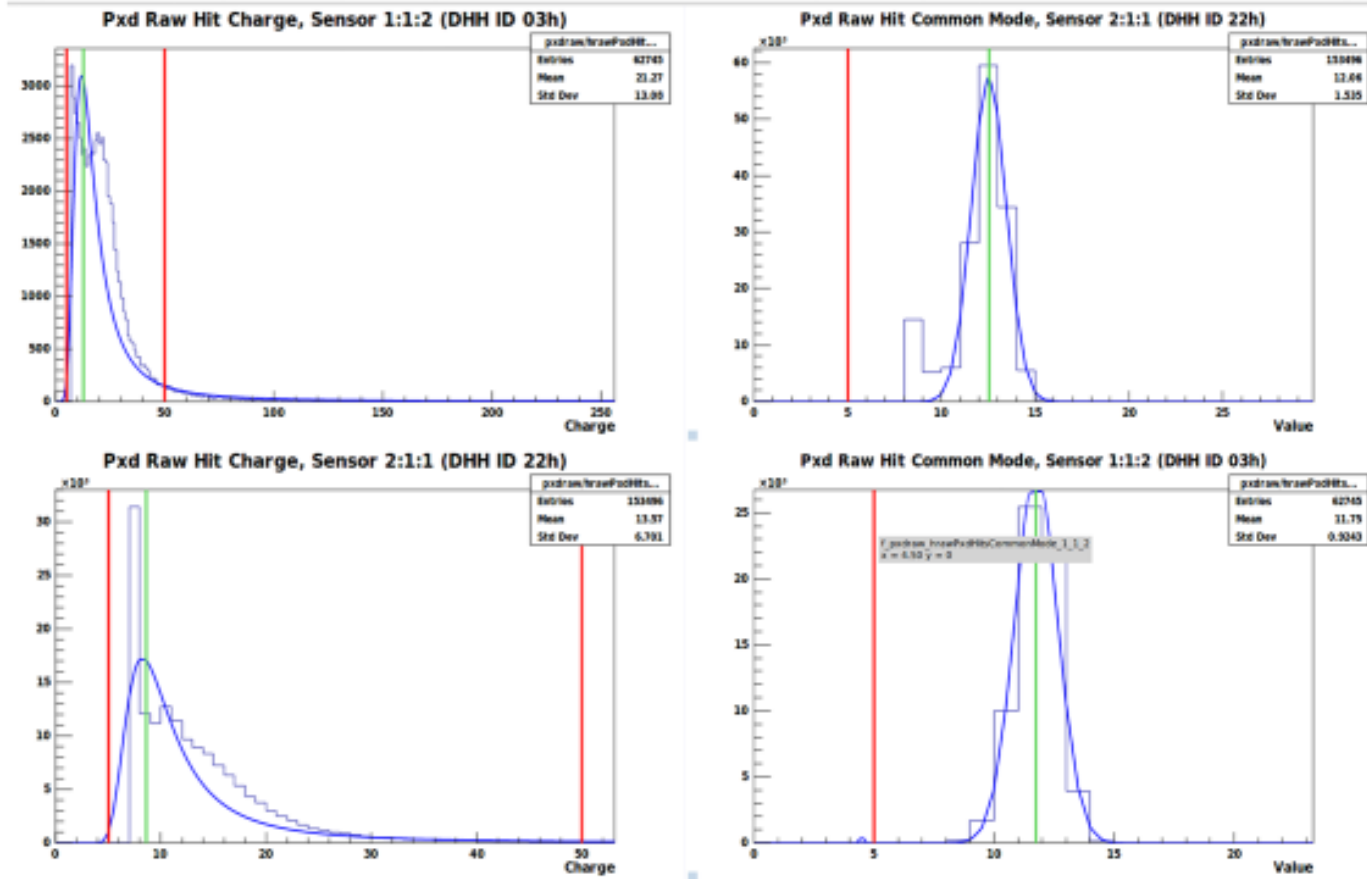
- ❖ Separate server for dedicated PXD DQM analysis needed
 - Funding for hardware not clarified yet
 - Required performance needs to be evaluated
 - Redundancy and Administration not clarified yet
 - Connection to relevant networks



- ❖ Use JSROOT to display results
 - Display complete histogram+fit+values/labels/guidance lines etc
 - Plugs seamless into existing histogram and fitting server scheme

JSROOT Example – Fitting Data

Example with TB Data

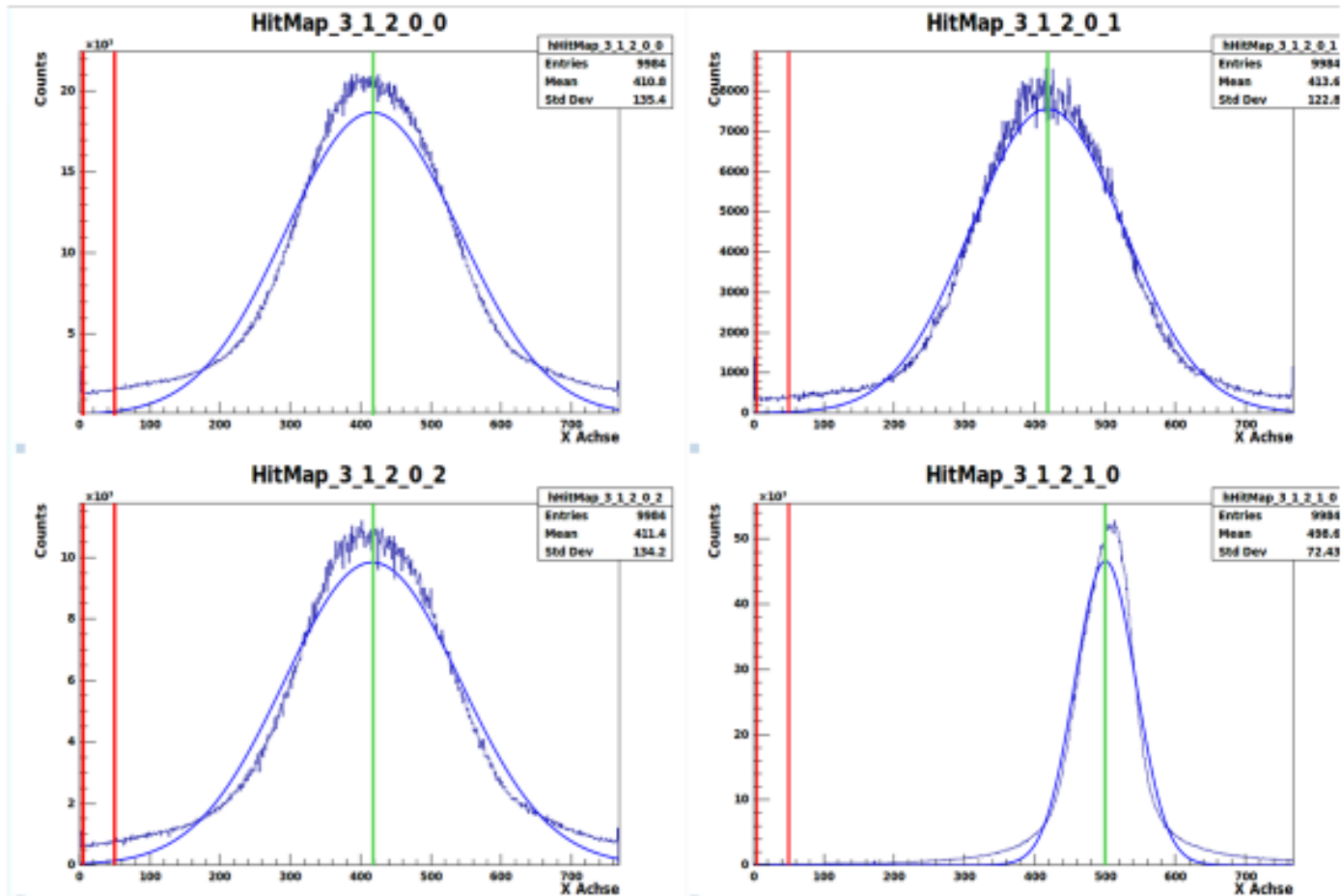


(blue/green are fit result, red are „guide“ lines (=limits))

JSROOT Example – Importing from EPICS

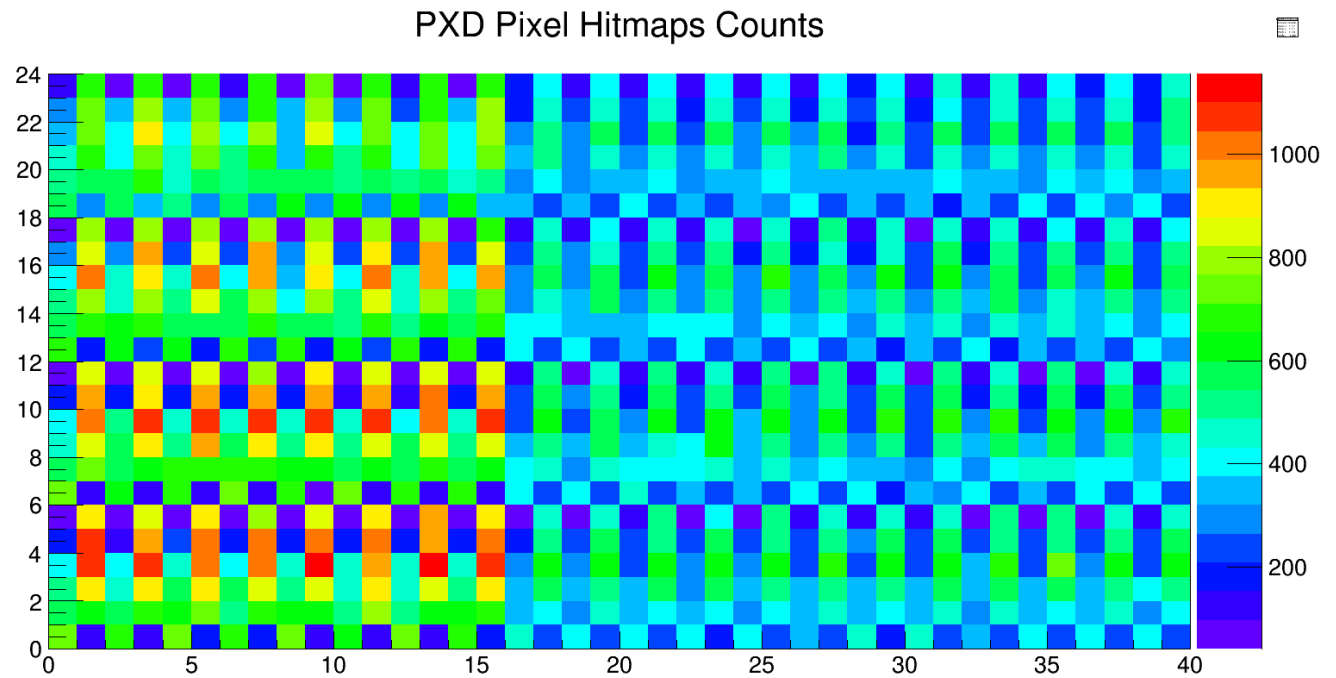
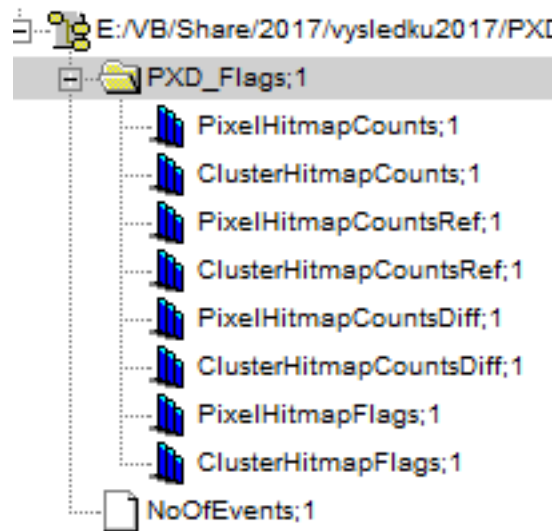
Import Histograms from EPICS PVs (SVDDQM)

Replay of data file from last TB setup. Importing 1800 histograms from EPICS to basf2.
(Quite useless to fit a gauss to here, just to prove the principle)



DQM on **basf2** Level (Peter Kodyš)

- ❖ Most expert level histograms done
- ❖ Create DQM of PXD cluster shape correction
- ❖ Using conditional local and global (PNNL) database
- ❖ PXD DQM in master branch of basf2



- ❖ Borrowed server from Itoh-san (used by TOP)
 - 24 2.67GHz Xeon core , >10Gb RAM and 500Gb HDD
 - Björn is going to set up this server for DQM purposes while in Japan
 - **But SC/RC work for Phase 2 takes precedence!**
- ❖ Next Steps
 - Check performance of DQM server
 - Continue to define **meaningful** monitoring variables
- ❖ basf2
 - Add efficiency plots based on Ulf and Benjamin work
 - Collect requests from experts and apply (mainly to Express Reco On-line monitors)
 - Improve flag creation mechanism
 - Apply advance corrections based on tracking study