

D2B Update

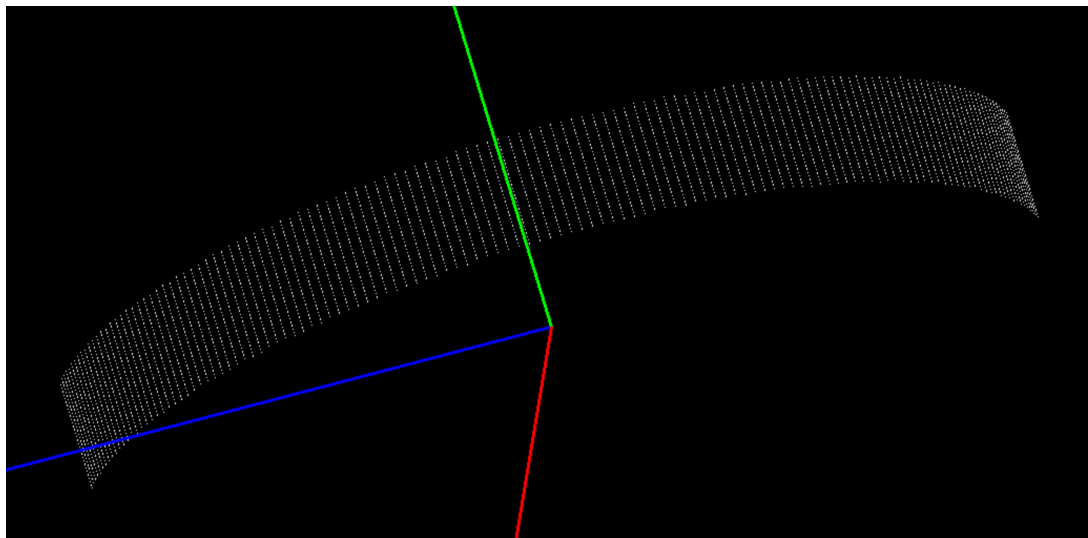
21/09/2017

Detector Scan Work

- Performance improvement for loading detector scan workspaces
 - Sync scans have same time intervals for all detectors
- MergeRuns supports detector scan workspaces

D2B Loader & Instrument Definition

- Instrument was mirrored – now corrected
- Tube 1 is now at 6.25° , angle from NeXus file to rotate is for Tube 128



Demo

SumOverlappingTubes input dialog

TODO: fill this out.

InputWorkspaces

508093
508094
508095
508096
508097
508098
508099
508100
508101
508102
MultiFiles
d2b

OutputWorkspace outWS

ScatteringAngleBinning 0.05

ComponentForHeightAxis tube_1

HeightBinning

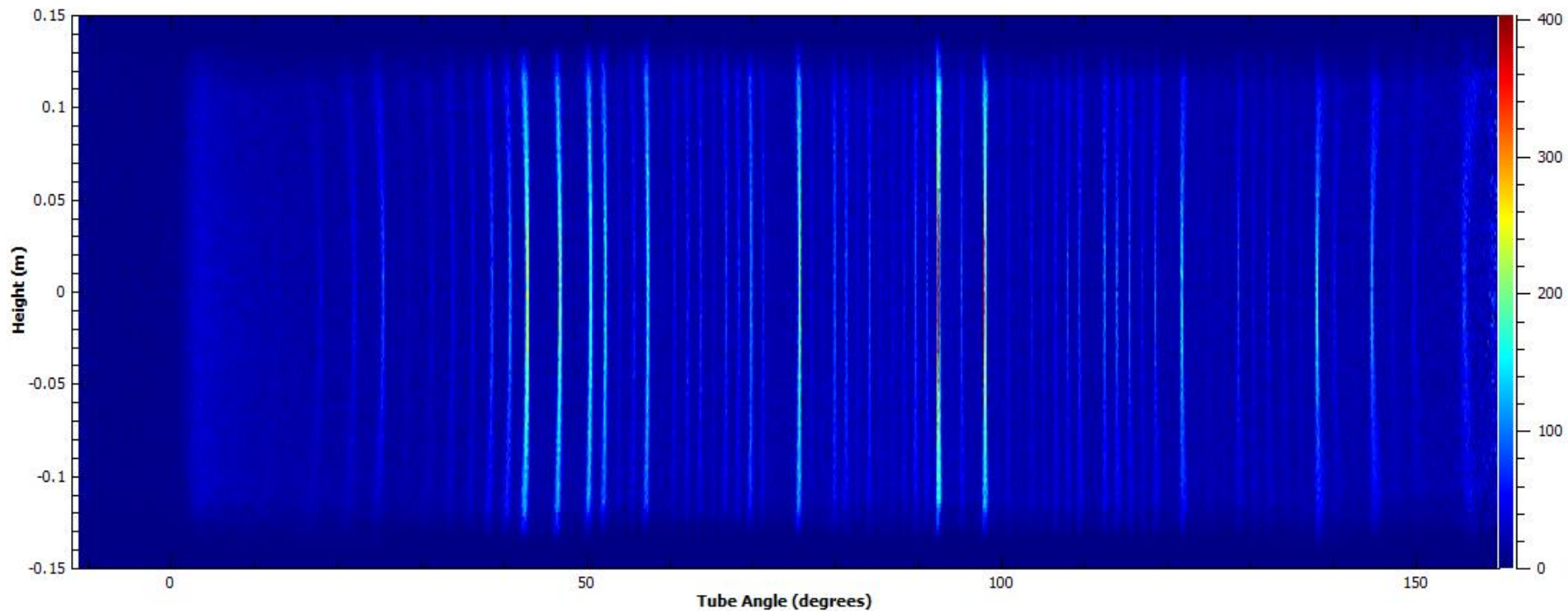
ScatteringAngleTolerance 0.1

☒ Normalise

? Keep Open ☐ Run Close

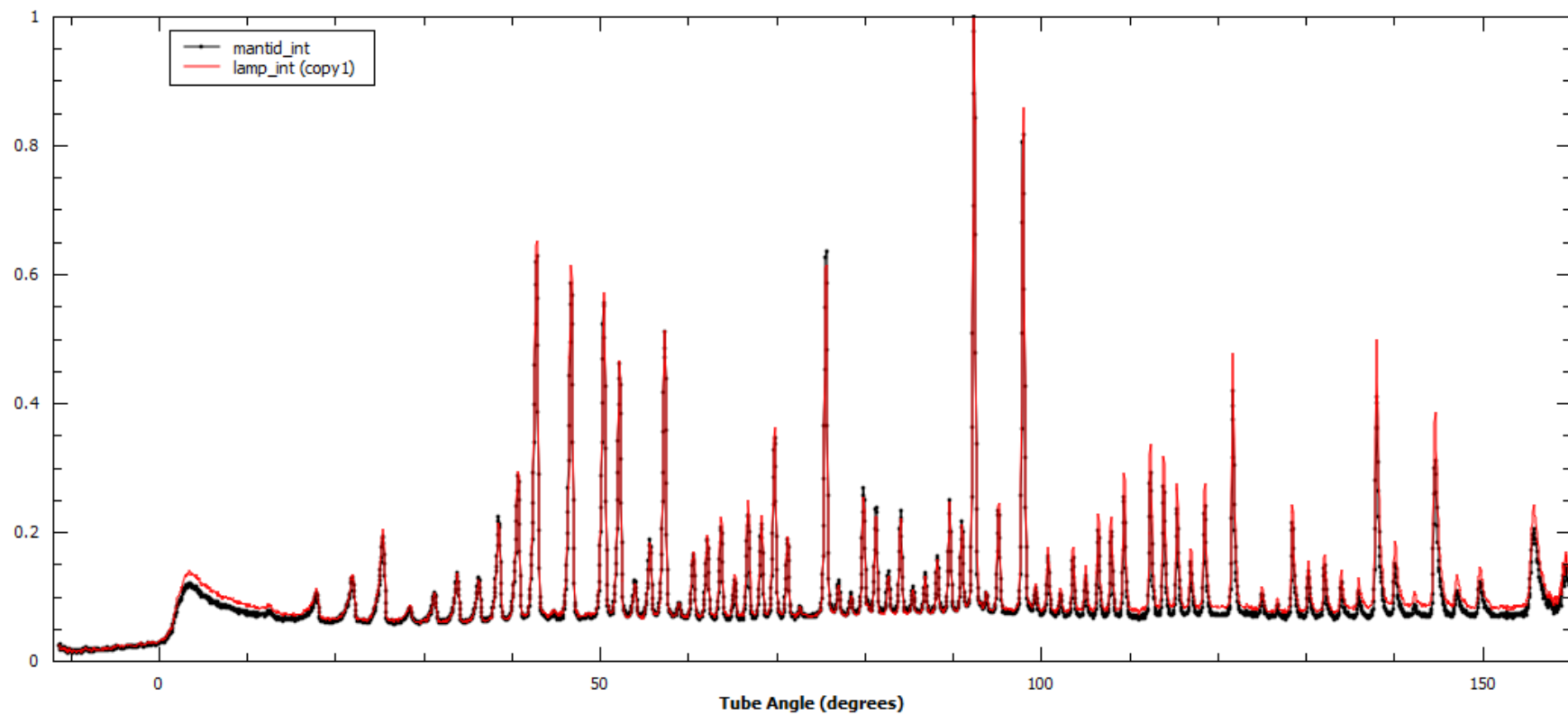
Demo

summedTubes



Demo

mantid_int



Work for D2B – Reduction

- **SumOverlappingTubes**
 - Error propagation
 - Progress
 - Documentation
- Normalisation
 - **NormaliseToMonitor** requires detector scan support

Work for D2B – Calibration

- D2B NeXus files containing calibration
 - Add option to loader for Raw/Calibrated
 - Check calibrated results against LAMP
- Generation of the calibration files

Detector Scan General Work

- Extract single time index
- Saving scan workspaces to NeXus
 - Potential to leverage NeXus style instrument from ESS
 - Might require **ComponentInfo** to support scans (i.e. scan a tube, not pixels in tube)
 - <https://github.com/mantidproject/documents/pull/53>