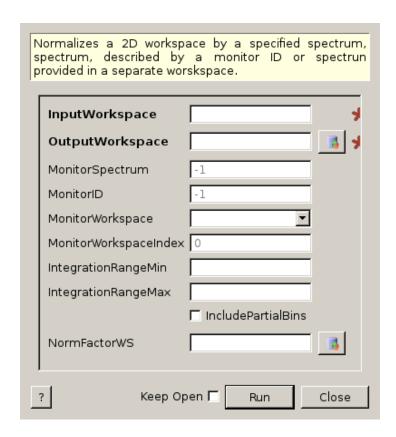
# D2B Update

23/10/2017

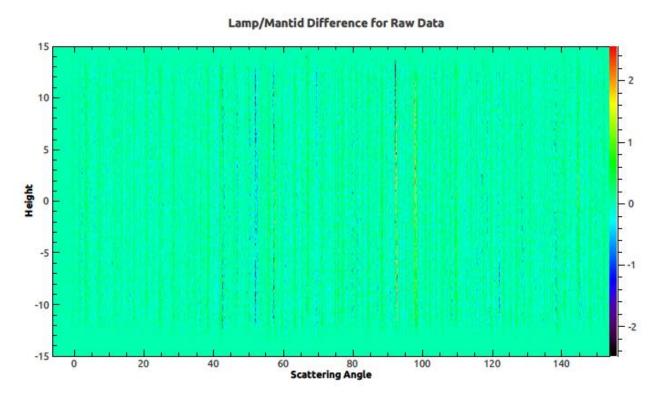
# NormaliseToMonitor Updates

- Now supports workspaces with single counts (no ToF axis)
- Now supports detector scans multiple monitor entries taken into account
- Interface unchanged
- General tidy-up
- PR merged to master
- Needs testing with D20



#### D2B Loader – Raw Data

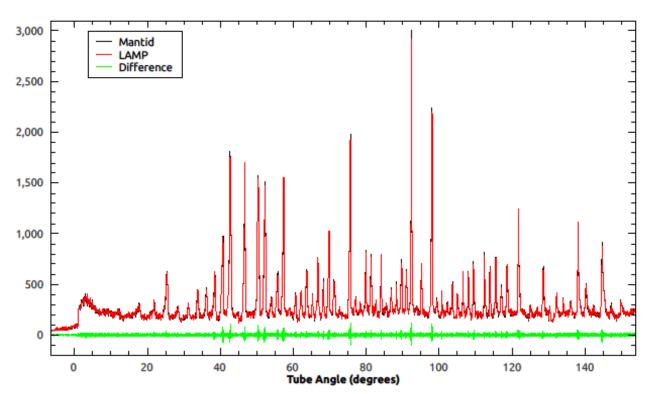
- Raw data now has data with all tubes in same orientation
- Discrepancy between Mantid and Lamp of a few counts – needs investigating



#### D2B Loader – Raw Data

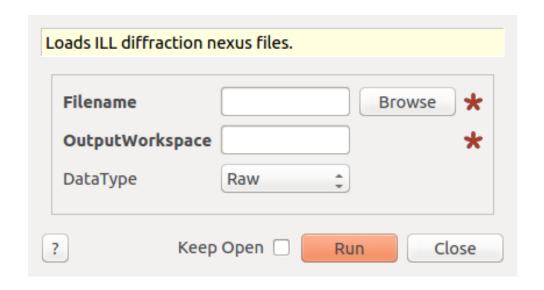
Lamp/Mantid Difference for Raw Data

- Raw data now has data with all tubes in same orientation
- Discrepancy between Mantid and Lamp of a few counts – needs investigating



## D2B Loader – Calibrated Data

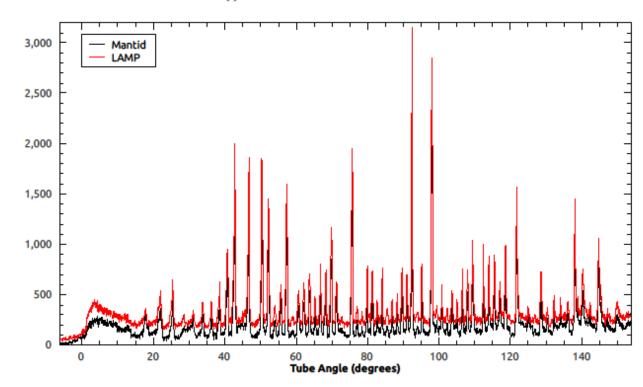
 Calibrated data option added to loader



## D2B Loader – Calibrated Data

#### Lamp/Mantid Difference for Calibrated Data

- Calibrated data option added to loader
- Calibrated data shows some systematic difference in counts (as expected with interpolation)

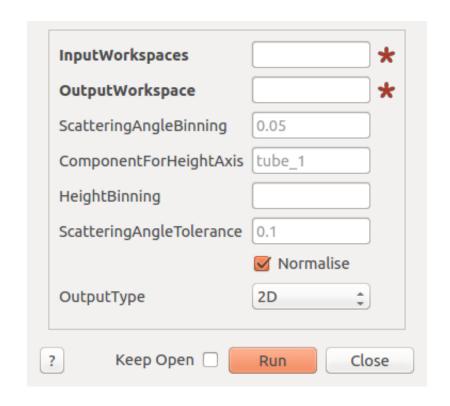


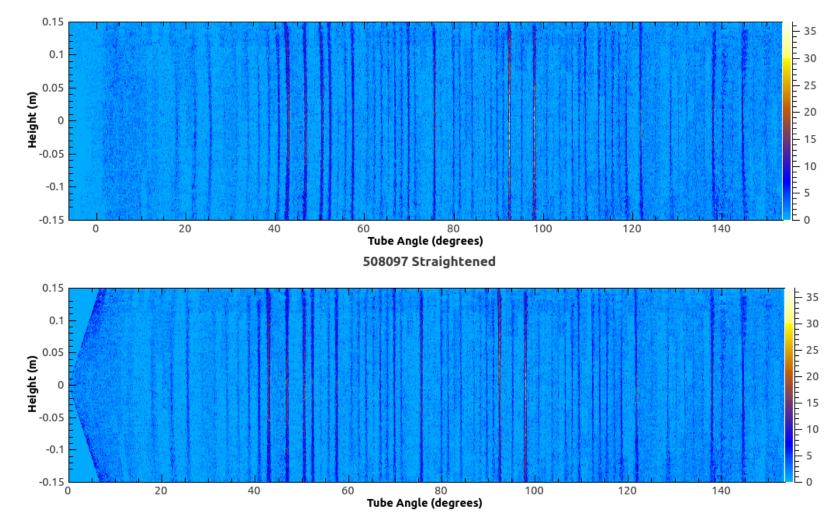
## D2B Calibrated Data

- Tube Dead Zones
  - Do we still need to apply this?
  - Alternative is to mask in Mantid, and ignore detector pixels that are outside good range
- Efficiencies
  - Writing integers in NeXus file is this ok?
  - Could mean different results when applying efficiencies in Mantid

## SumOverlappingTubes - Straight 2D

- OutputType can be 2D, 2DStraight or 1D (to be added)
- 2D height, tube centre scattering angle
- 2DStraight height, pixel scattering angle
- 1D pixel scattering angle





## Work To Do

- SumOverlappingTubes
  - 1D Option for final diffractogram
  - Error propagation
  - Further unit tests for new features
  - Documentation
- Loader
  - Make decision on calibrated data
- Provide build for testing
- Add D2B support to PowderDiffILLReduction workflow algorithm
- Calibration applying calibration from files