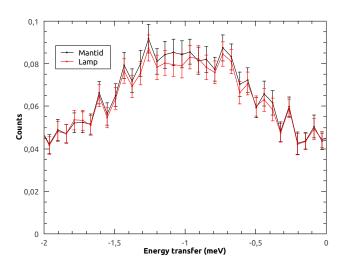
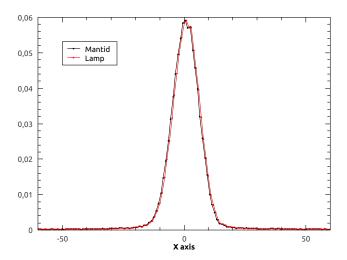
## Lamp-Mantid comparison, reduction and calibration

Sample run: 146195 Vanadium run: 146007



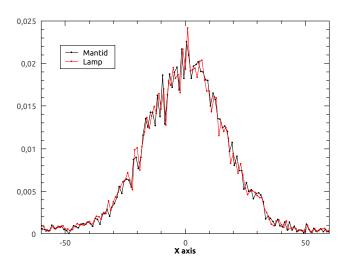
## Lamp-Mantid comparison, MirrorMode (shift operation)

Vanadium run 146007:



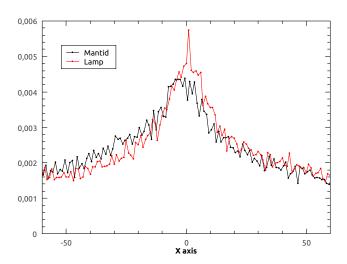
## Lamp-Mantid comparison, MirrorMode (shift operation)

Sample run 127500:



## Lamp-Mantid comparison, MirrorMode (shift operation)

Sample run 146195:



### Details shift operation

# Taking MLZ FindEPP (elastic peak position EPP) algorithm Modifications:

Validator for TOF X-axis disabled

#### Shift operation design:

Python numpy (insert, delete, append)

#### Shift operation unit test design:

Test data to shift:

7 X values

6 Y values

Test correct positions to shift for each possible offset Test dimensions of newly created 2DWorkspace (number of histograms, number of bins)

#### Conclusion and remarks

Please note that X-axis labels are still wrong

Mantid and Lamp may estimate peak positions differently:

- Differences occur less likely for Vanadium run(s)
- Differences for sample runs likely

#### To do:

Further investigations (multiple runs, ...), unit tests Final IndirectILLReduction.py, IndirectCalibration.py and FindEPP (Python3)

#### Finished:

Comparison of reduction (Lamp unmirror options 0, 1, 2, 3) and Vanadium calibration tested for few sample and Vanadium runs.

