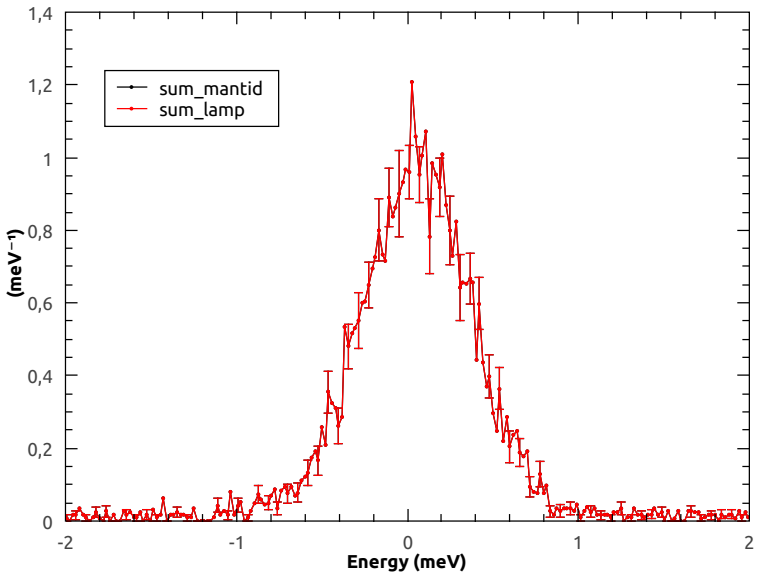
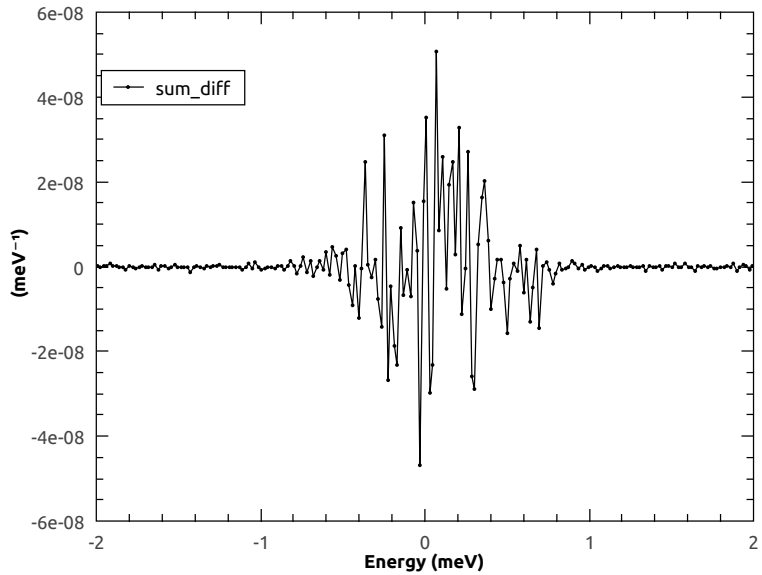
Backscattering, IN16b

Overview

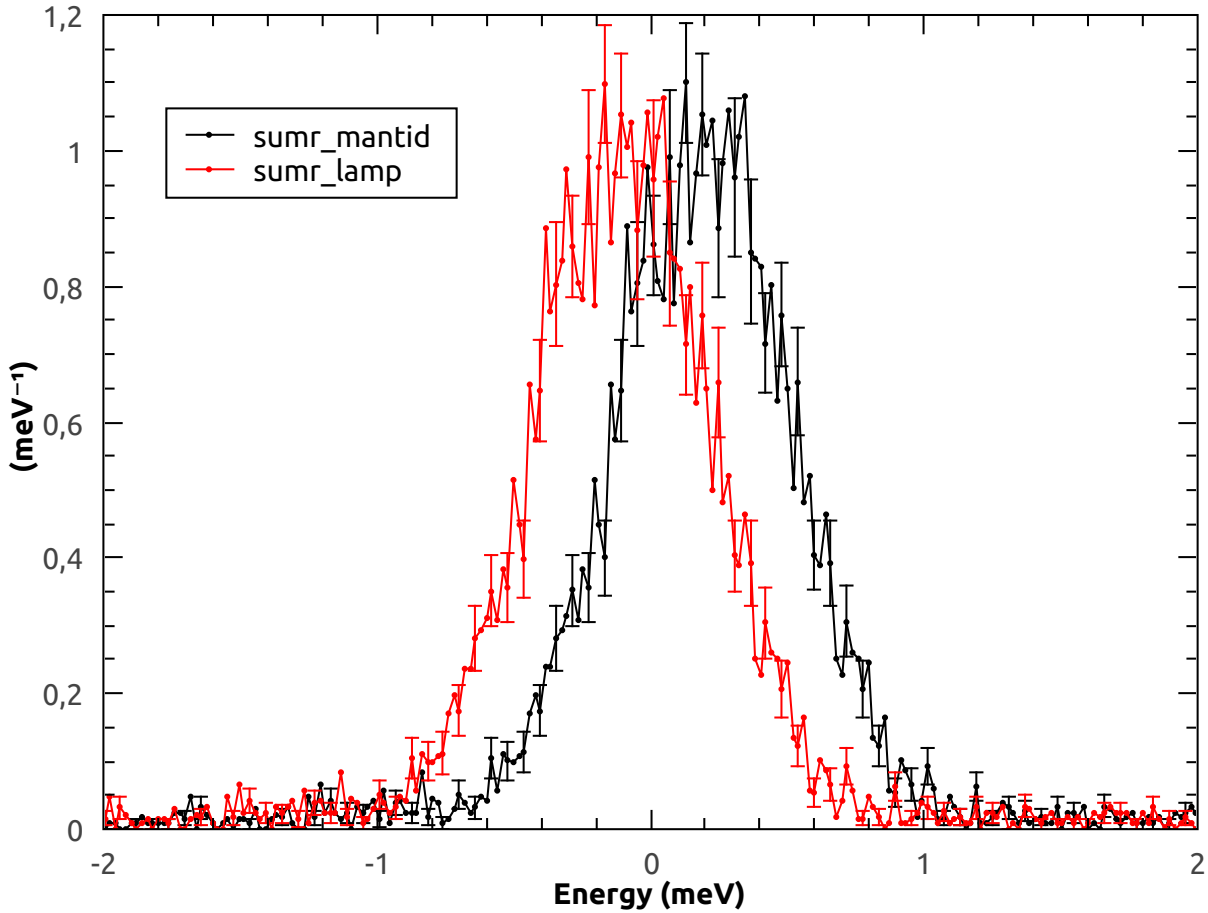
- Comparison of left and right workspaces in Mantid and Lamp for reduced data
- Comparison after loading (IN16B_xxx_group in Mantid, Cropping removed in IndirectILLReduction.py)
- Vanadium calibration

Sum over single spectra for left workspace of 127500.nxs

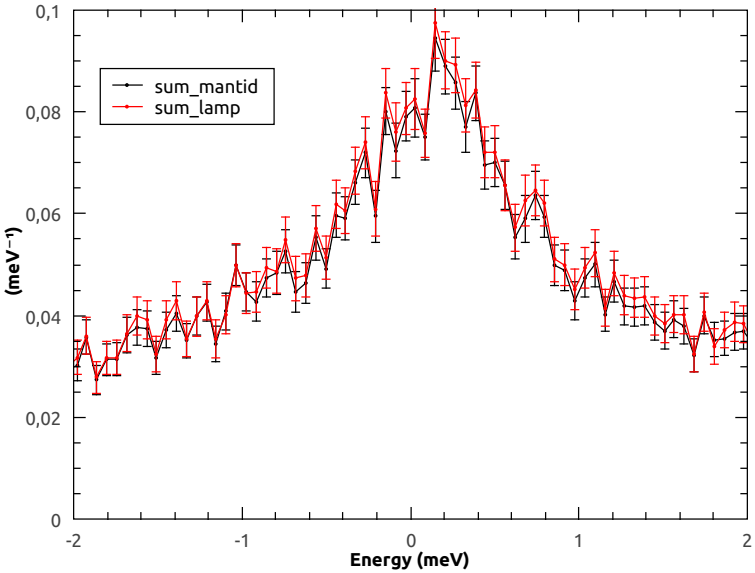


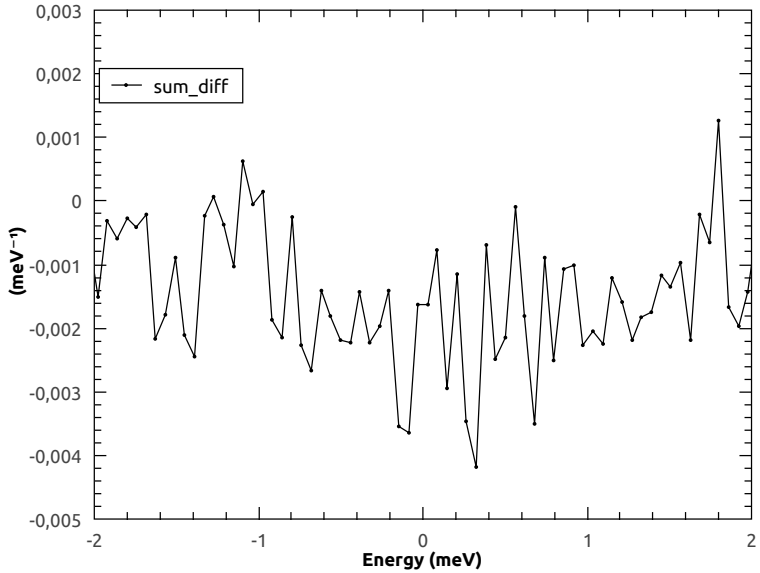


Sum over single spectra for right workspace of 127500.nxs

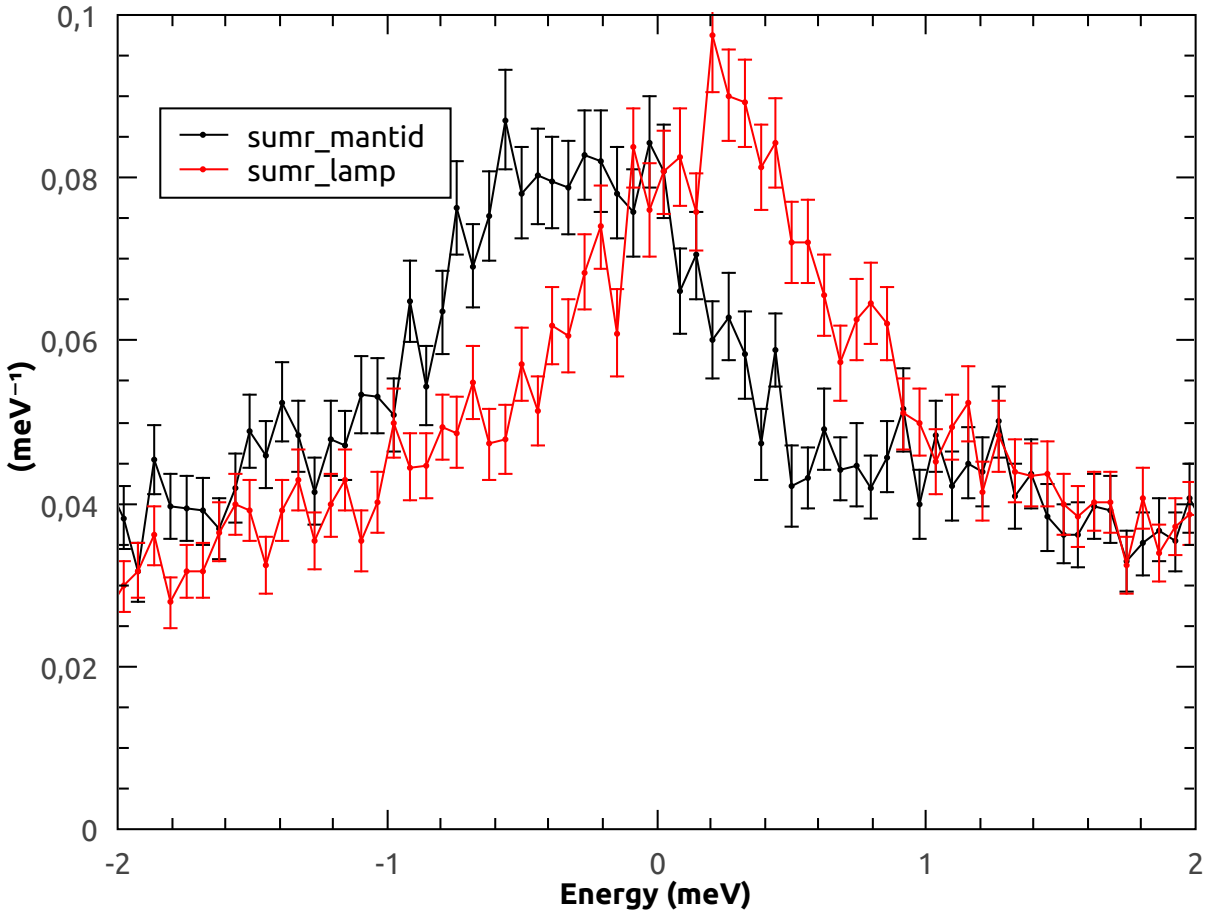


Sum over single spectra for left workspace of 146195.nxs

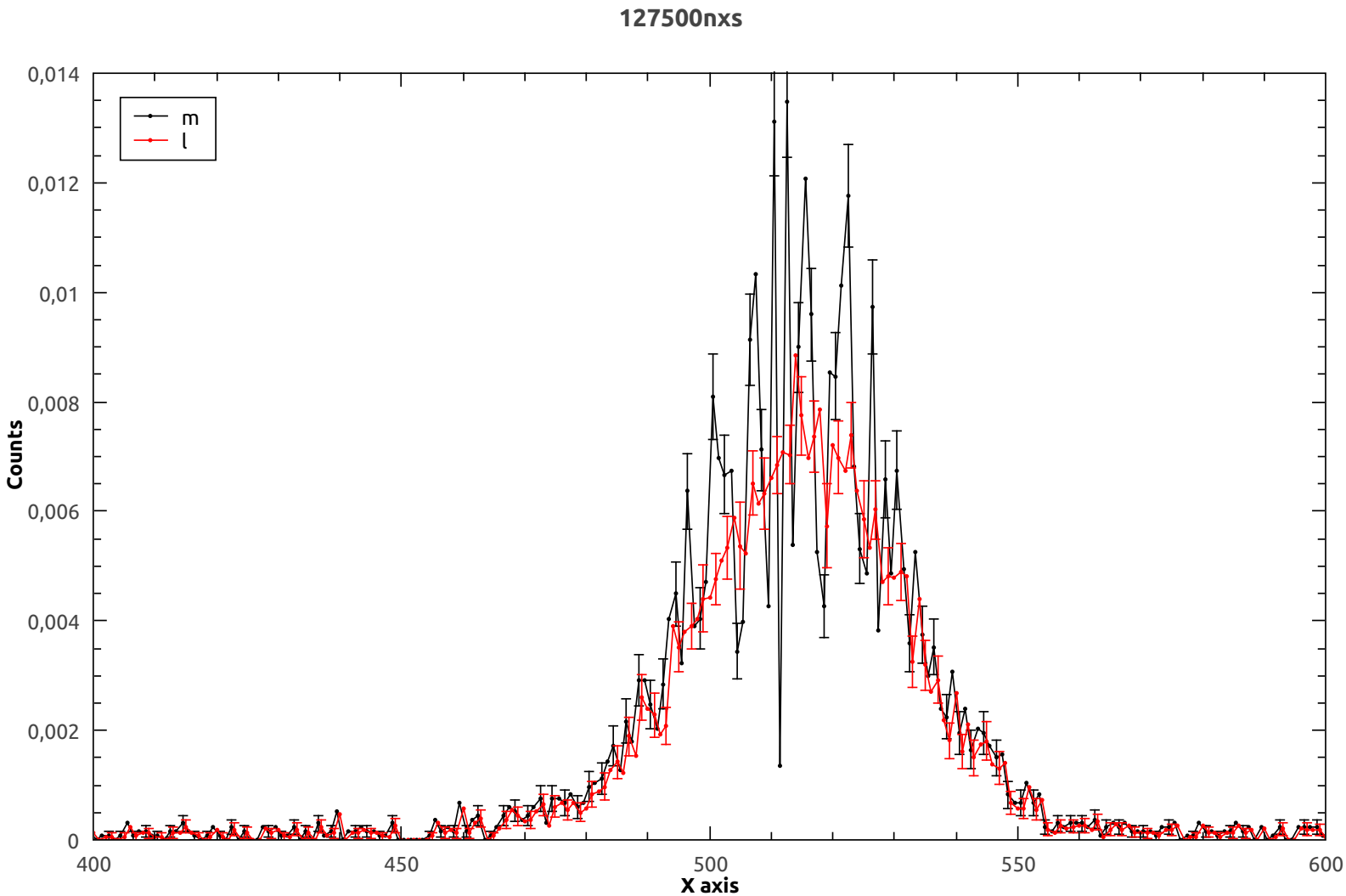




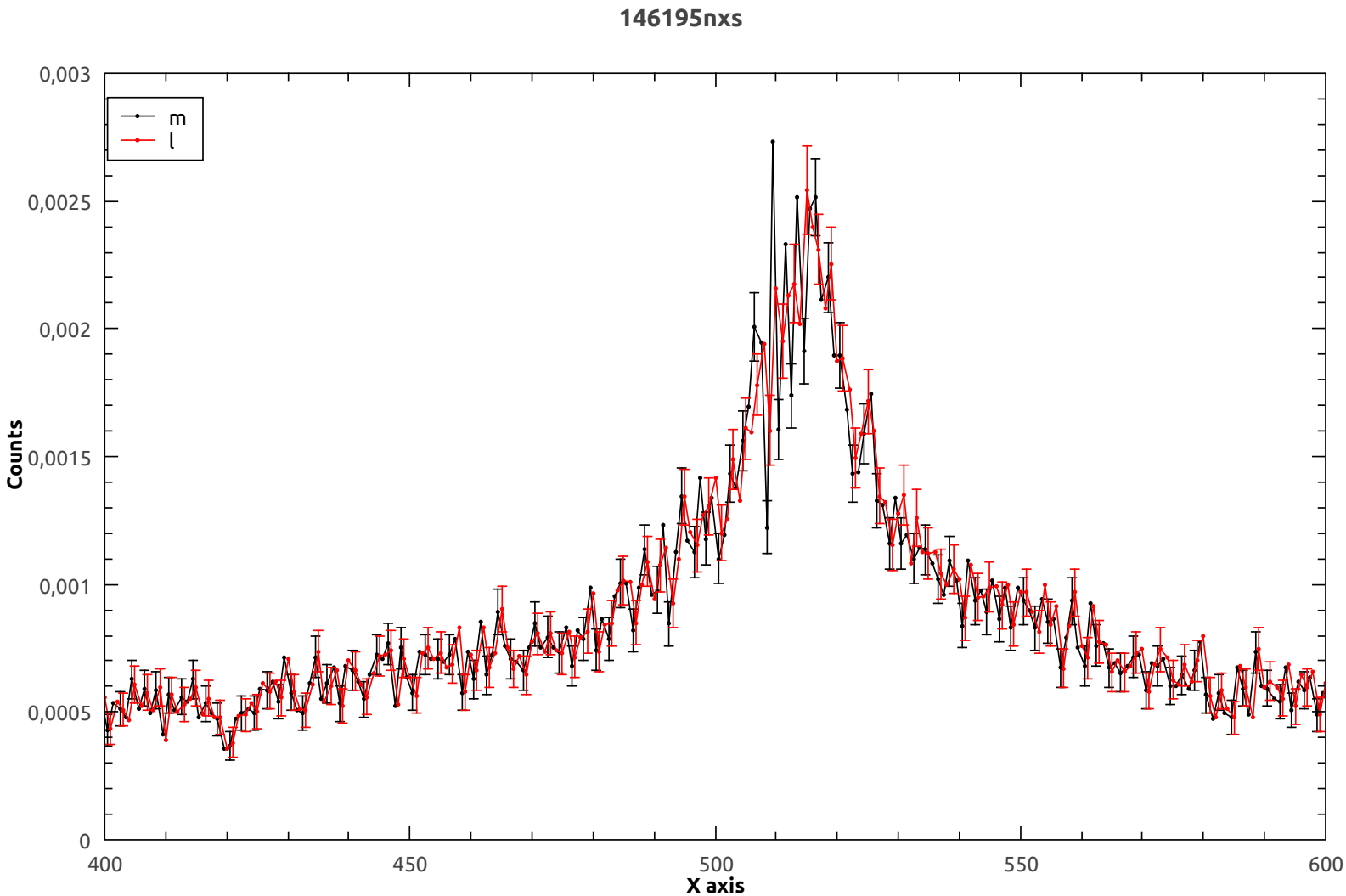
Sum over single spectra for right workspace of 146195.nxs



Sum over single spectra 127500.nxs after loading



Sum over single spectra 146195.nxs after loading



Vanadium Calibration

Lamp

```
;IDL file for LAMP. Call this script using @van_calib.pro
;rdset, /noraw, fws = 0, bsnorm=1, unmirror=0
;psd_int_range=[0,128]
rdset, /noraw, fws = 0, bsnorm=1, unmirror=0
s='146195' ; sample run
v='146006' ; vanadium runs 146006,146007
; sample
w1=rdrun(s)
w2=total(w1(*,2:17),2)
w3=tee(w2)
; vanadium
w4=rdrun(v)
w5=total(w4(*,2:17),2)
w6=tee(w5)
; vanadium normalisation
w10=vanorm(w3,w6)
```

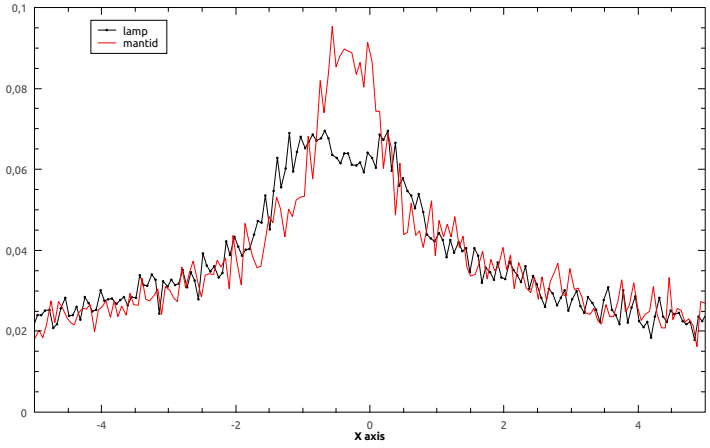
Mantid

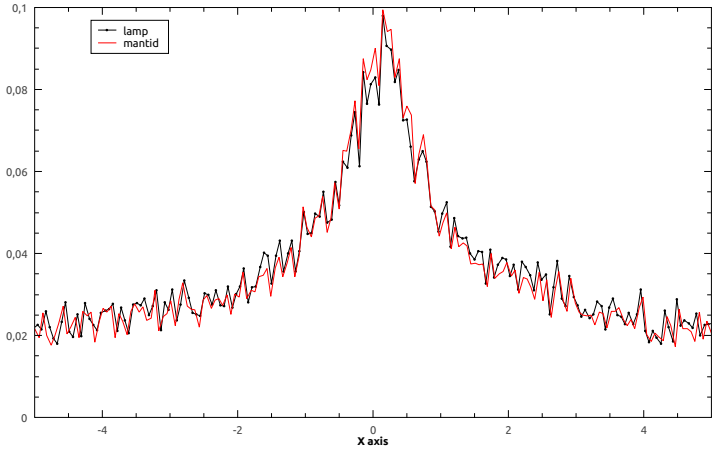
- Background subtraction, default range is 0-1000 μeV
- Intensity scale, default value is 1 and means automatic scaling
- Detector range
- Peak range, default is 0-100 μeV
- New: MirrorMode, possibility to return left and right calibration workspaces
- Calibration workspace name _calib in GUI required
- One IndirectCalibration algorithm for ISIS and ILL
- GUI extension (ISIS)

Vanadium Calibration

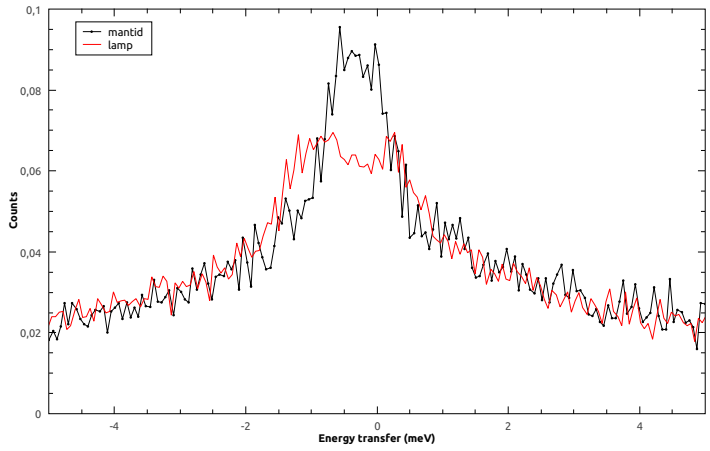
No background subtraction

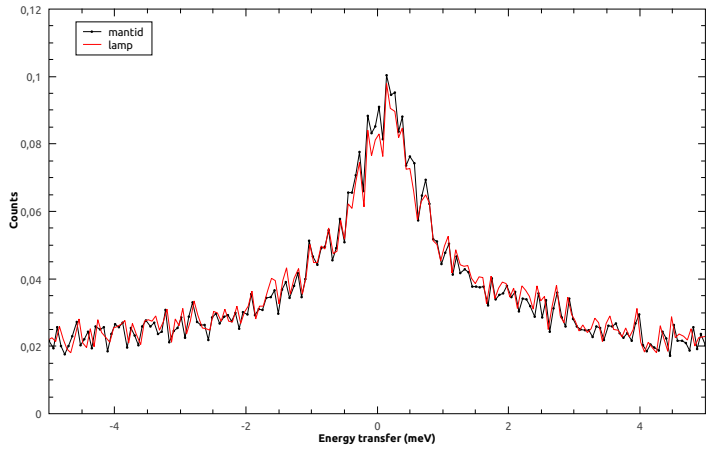
Single Vanadium run: Mantid 0 μV - 100 μV





Merged Vanadium runs:





Vanadium Calibration

No background subtraction

Merged Vanadium runs: Mantid -30 μV - 30 μV