NEUTRONS FOR SCIENCE

Lamp vs Mantid

IN16B QENS Reduction

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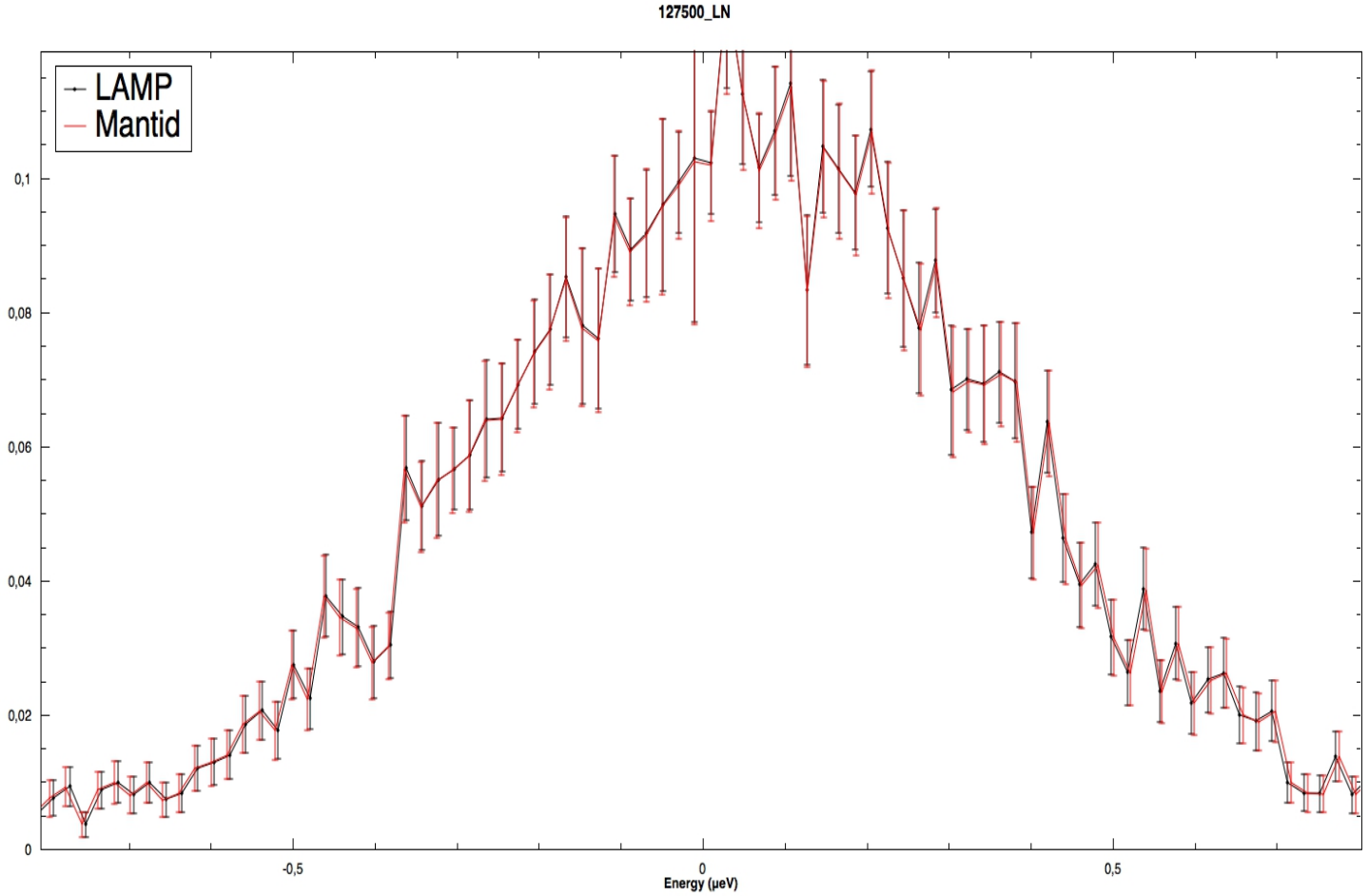
31.05.16, Bastille meeting, ILL

Reduction workflow

LAMP	MANTID
rdset, fws = 0, unmirror = 2, bsnorm = 0, /noraw	MirrorMode=True, left
w1 = rdrun	IndirectILLReduction
w2 = bsnorm(w1)	NormaliseToMonitor
w3 = total(w2(*,2:17),2)	SumSpectra
w4 = tee(w3)	ConvertAxisByFormula (in IndirectILLReduction step)

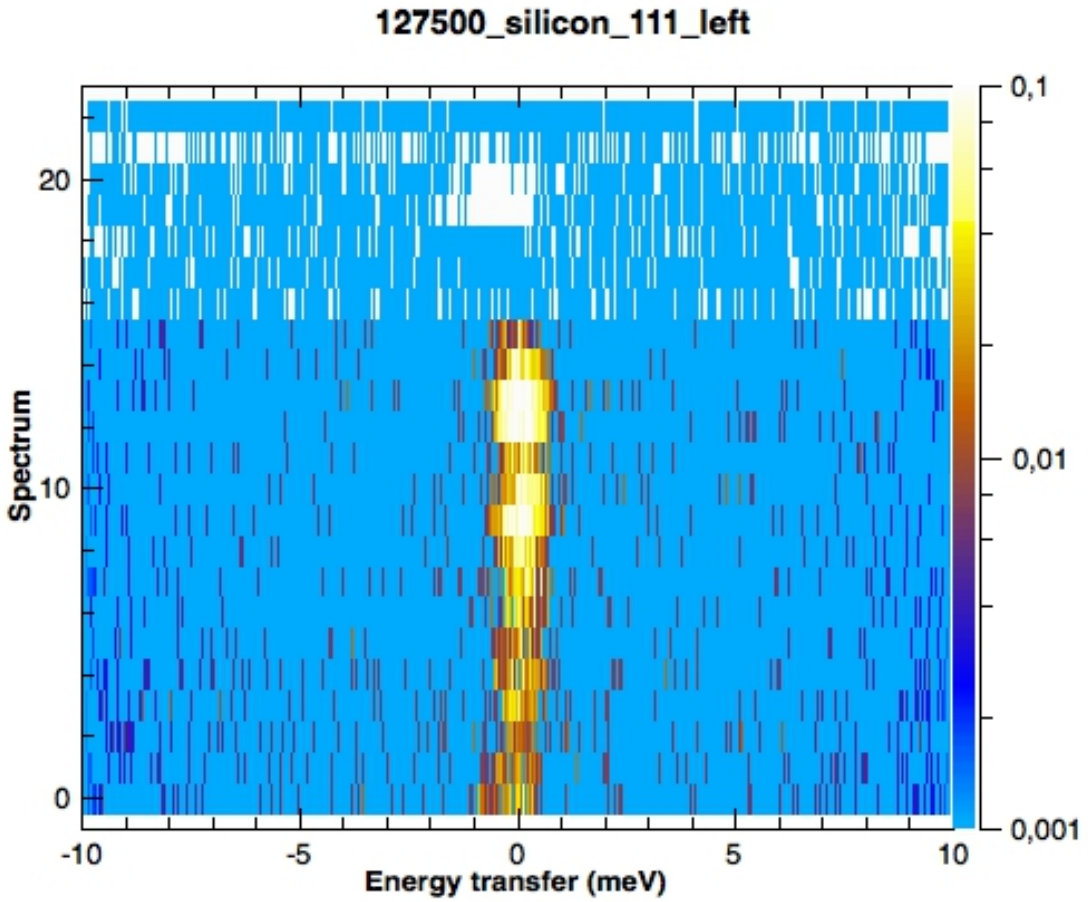
Numor 127500.nxs



Mantid curve is scaled with a factor of 0.1

- Nearly identical
- Shift in horizontal axis

Single detectors



- Spectra numbers above 16 are SD
- Present in .hdf files
- But filled with noise
- (or unrelated test signals)
- LAMP trims them out
- Mantid shows by default
- Mask ?

Next sprint

- comparisons of spectra for each of the PSD detectors
- (mind potential mismatch in spectra indices)
- rdsum, need to treat weights properly when summing in Mantid
- unmirror 4, care must be taken when summing left and right
- unmirror 0, problem with x-axis range
- rebinning?
- empty can subtraction?
- vanadium normalisation?
- absorbtion corrections?
- fixed window scans?