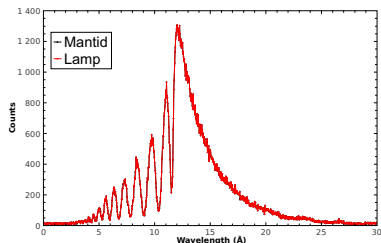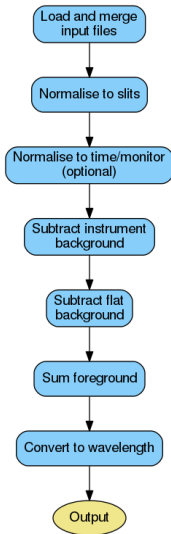# LoadILLReflectometry

- ► Loads D17 in 2D TOF mode
- ► Figaro waiting for changes to file format
- ► Possibility to apply direct beam calibration
- ► With updated Mantid instrument definition, output comparable with LAMP
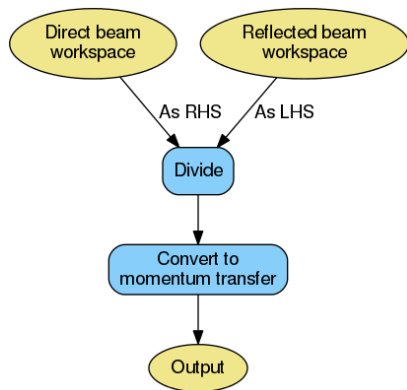
Reduction workflow

- ▶ Current design: two Mantid workflow algorithms
- ▶ `ReflectometryILLPreprocess`
  - ▶ Common algorithm for direct beam, reflected beam
  - ▶ Load and merge data
  - ▶ Normalizations, background subtractions, other common corrections
- ▶ `ReflectometryILLReduction`
  - ▶ Produces the final reflectivity data

ReflectometryILLPreprocess

- Missing steps: water reference, incoherent foreground, . . .

ReflectometryILLReduction

▶ Missing: polarization corrections, gravity corrections, …

Next steps

- Testing: Get the workflow to reproduce the simplest COSMOS reduction.
- Gravity corrections.
- Investigate if `PolarizationCorrection` is usable for us.
- Foreground summation in incoherent case: the code is in `ReflectometryReductionOne` but who is going to extract it?
- Priority of water reference?