

Current status

- ▶ Detector efficiency correction
 - ▶ Computed as function of E_f , equation from IPF.
 - ▶ You might think $E_f = E_i - \Delta E$, but in
DetectorEfficiencyCorUser, $E_f = |E_i \pm \Delta E|$
- ▶ Generalized density of states (GDOS)
 - ▶ Workflows in Lamp and Mantid differ
- ▶ IN4 instrument definition
 - ▶ On hold until detector configuration is checked

Generalised density of states

►
$$g(\omega) = \frac{\omega}{q^2} D^{-1} \langle n + \frac{1}{2} \pm \frac{1}{2} \rangle^{-1} S_{\text{inc}}(q, \omega)$$

LAMP

...

sgroup

t2e

gdos

$S(\theta, t)$

$S(t)$

$S(\omega)$

$g(\omega)$

Mantid

...

ConvertUnits

CorrectKiKf

SofQW

ComputeIncoherentDOS

$S(\theta, t)$

$S(\theta, \omega)$

$S(\theta, \omega)$

$S(q, \omega)$

$g(\omega)$

Next sprint

- ▶ Detector efficiency: why the current E_f ? Also, investigate `He3TubeEfficiency`
- ▶ Analyze IN4 diffraction data
- ▶ Visual inspection of IN4 detector configuration