



GISANS Normalization

A few thoughts

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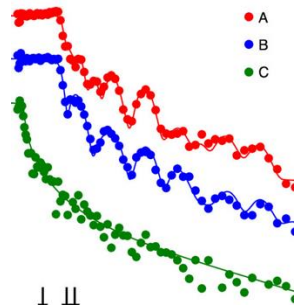
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Normalization or absolute intensities



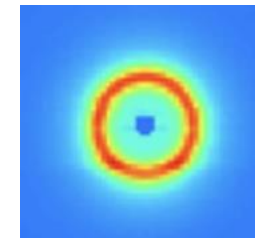
Normalization

- Reference to primary beam
- Together with critical angle gives SLD of full sample and subsequently step function of SLD for buried layers



Absolute intensities

- Reference to primary beam, sample volume
- Comparison for either known or calculated SLDs gives material densities over SLD or vice versa





Thoughts on GISANS normalization

- The transmitted SANS still scatters (systematic background)
- Not all instruments can do reflectometry and GISANS in similar geometries (using the critical edge)
- Proper background subtraction is necessary for normalization
- How can reference samples be used? What would they need to look like?
- Could magnetic references help?
- What is the simplest/most reliable/ ... way to correlate GISANS data to real SLD, and hence sample composition?