Computational Modeling to Aid in Analysis and Interpretation of Multi-Modal Neutron Experiments

Research Objectives

Significance of

The over-arching goal of our project is create a workflow for data analysis and interpretation needs of the neutron scattering community through streamlined atomistic modeling. Neutron scattering experiments require users to model and interpret data at the atomic/molecular level. With numerous software applications and a large array of different file formats with each, scientists tend to use a limited (and sometimes dated) subset of software tools to tackle data analysis from neutron experiments. This creates a barrier to use other methods or atomistic modeling softwares in their research that could help in bridging the gap between experiment and theory.

Proposed Research

Propose the research projects that we can answer.
1) Maik's project
2) Bianca's project
3) Sankar's project
4) Ben & Colin's project

Computational Methodology (applications/codes)

More text.

Computational Research Plan

More text. Cite an example (**?**)

Justification for Service Units (SUs) Requested

Additional Comments

BUDGET JUSTIFICATION