



Contribution ID: 45

Type: Poster

Polarised Neutron Scattering Capabilities at ACNS

Monday, 4 November 2024 19:15 (20 minutes)

The ability to select and manipulate the spin of neutrons as part of scattering experiments enables unique information to be obtained for a variety of samples, ranging from detailed studies of magnetic ordering to the separation of coherent and incoherent scattering which can be especially useful for samples containing a significant amount of hydrogen. This poster will provide an overview of the polarised neutron scattering capabilities which are available for user experiments at ACNS, as well as some information about important considerations when planning a polarised neutron experiment. Details will also be shared about some new technical development projects which aim to improve these offerings, such as a new magnetic guide field system for triple axis spectrometers, and a new laser optical pumping system which is currently under commissioning.

Topics

Neutron Instruments and Techniques

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Session Classification: Posters