



Polarized Neutron Capabilities at ORNL

Thursday, August 3, 2017

Organizers:

Barry Winn (winnbl@ornl.gov), Ovi Garlea (garleao@ornl.gov),
Quantum Condensed Matter Division, ORNL

The workshop includes a series of lectures on a broad range of scattering applications, either available for user program experiments or under development, using polarized neutrons. Techniques include half-polarized neutron scattering, 3D polarization analysis, Larmor precession techniques for enhanced resolution, and dynamic nuclear polarization. An introduction to how to use these techniques is accompanied by a survey of what is available at ORNL and some examples of recent results, to reveal how these techniques may impact your own research. In addition, at the end of the workshop, you will have the opportunity to either tour HFIR with a targeted tour, or participate in a demonstration experiment at the direct geometry spectrometer HYSPEC at the SNS using polarized neutron scattering.