

11th American Conference on Neutron Scattering

NSE Workshop Agenda

An introduction to Neutron Spin Echo (NSE) will be given through science examples in various fields from soft matter to artificial magnets. After the break, instrument-based talks will be given, highlighting the NSE machines in the Americas and future upgrades/construction projects. The workshop will end with an open discussion session allowing the participants to suggest future science directions and required ancillary tools.

Sunday, June 5, 2022

| TIME | TITLE | SPEAKER |
|--|--|-------------------------------------|
| 12:45 | WELCOME | Georg Ehlers/Antonio Faraone/YZ |
| Session 1 (Chairperson: A. Faraone) | | |
| 13:00 | NSE The Basics | Peter Falus (ILL, Grenoble) |
| 13:45 | <i>Q</i> -dependent Collective Relaxation Dynamics of Glass-Forming Liquid $\text{Ca}_{0.4}\text{K}_{0.6}(\text{NO}_3)_{1.4}$ Investigated by Wide-Angle Neutron Spin-Echo | Peng Luo (UIUC) |
| 14:00 | Insights into mesoscale membrane dynamics from NSE | Elizabeth Kelley (NIST) |
| 14:15 | NSE investigation of magnetic charge dynamics in artificial kagome ice | Deepak Singh (U. of Missouri) |
| Session 2 (Chairperson: YZ) | | |
| 14:30 | Spatial correlations of polymer dynamics | Yangyang Wang (ORNL) |
| 14:45 | Ergodicity breaking in multi-arm poly (ethylene glycol) hydrogels | Jonathan Nickels (U. of Cincinnati) |
| 15:00 | Dynamics of proteins in solution at the short-time limit | Yun Liu (U. of Delaware/NIST) |
| 15:15 | <i>Coffee Break / Together with other tutorial on SAS analysis</i> | |
| Session 3 (Chairperson: G. Ehlers) | | |
| 16:00 | SNS – NSE Neutron Spin Echo Spectrometer at the Spallation Neutron Source | Piotr Zolnierczuk (ORNL) |
| 16:30 | NCNR – NSE Upgrade of the Neutron Spin Echo Spectrometer at NIST Center for Neutron Research | Michi Nagao (NIST/U. of Maryland) |
| 17:00 | EXPANSE Time-of-Flight EXPANded Angle Neutron Spin Echo for the Second Target Station | Changwoo Do (ORNL) |
| 17:30 | Roundtable (30 mins) | All speakers and organizers |