

## Special Session Description

Session Title: **Computational Methods and Applications for Neutron Scattering and Imaging**

Subject Area: 10. Computational Materials Science

### Organizer

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### Description

Neutron scattering and imaging techniques play a significant role in characterizing nuclear materials. This session includes small angle neutron scattering, neutron diffraction, and neutron imaging with applications to characterization of nuclear materials. Specific topics include, but are not limited to, simulation of neutron scattering and imaging systems, trade studies of system design, and extraction of quantitative information and material properties of nuclear materials using these techniques.

- Small angle scattering
- Neutron imaging
- Neutron diffraction
- Crystallography
- Neutron reflectometry
- Magnetic neutron scattering