2021 NCNR Seminars – Abstracts available upon request

Date	Speaker	Title and host
Jan 11	**Ashley Weiland**. Univ. Texas, Dallas	**Synthetic Design of Ce-Based Intermetallics**. Contact: Jeff Lynn or William Ratcliff
Feb 11	**Zvi Kelman**. NIST Biomol. Division and IBBR	**Heterologous expression of mAbs in *Escherichia coli***. Contact: Susana Teixeira
Feb 22	**Dante O'Hara**. U.S. Naval Res. Laboratory, Washington DC	**Growth and manipulation of 2D van der Waals magnets**. Contact: William Ratcliff
Mar 1	**Yi Li.** Dep. Physics, Johns Hopkins University	**Topological superconducting and many-body orders in doped Weyl and Dirac semimetals**. Contact: Jeff Lynn or William Ratcliff
Mar 24	**Yuan-Yu Jau**. Sandia National Laboratories	**Quantum enabled new metrology: E-field sensing/imaging with neutrons**. Contact: Daniel Hussey
Apr 8	**Qimiao Si.** Dep. Physics, Rice University	(hosted by U. Maryland). Multiorbital singlet pairing and d + d superconductivity
Apr 9	**Drew Marquardt**. Univ. Windsor, Canada	**A CANS for Canada: A future neutron source for Canada**. Contact: Susana Teixeira
Apr 28,	**Tabbetha Dobbins**. Rowan University	(hosted by U. Maryland). **New Possibilities for Understanding Complex Metal Hydrides via Quasi-Elastic Neutron Scattering (QENS) Studies**
May 24	**Masataka Mogi.** MIT	**Spintronic and quantized properties of magnetic topological insulator heterostructures**. Contact: Jeff Lynn or Alex Grutter
May 27	**Eliott Gilbert**. ANSTO, Sydney, Australia	**Exploiting SANS to reveal the structure of food materials**. Contact: Susana Teixeira
June 11	**Robert Williams**. NCNR	**Cold neutron Sources and the NCNR Reactor**. Contact: Susana Teixeira
July 30	**Ekaterina Heldwein**. Tufts University	**The 'great' nuclear escape: the mechanism of membrane deformation during the non-canonical nuclear export in herpesviruses**. Contact: David Hoogerheide
Aug. 11	**Jeff Rinehart.** Univ. California, San Diego	**Controlling magnetic excitation pathways via synthesis of anisotropic Ising networks**. Contact: Craig Brown
Sep. 3	**José Teixeira**. LLB (France)	**The contribution of neutron scattering to the low-temperature water conundrum**. Contact: Susana Teixeira
Sep.29	**Wei-Ren Chen.** ORNL Spallation Neutron Source	**Inversion of SANS data using Machine Learning and Basis Expansion**. Contact: Peter Gilbert
Oct. 7	**Erkan Şenses**, KOÇ University, Istanbul	**Effect of macromolecular architecture on dynamics of polymer nanocomposites**. Contact: Susana Teixeira
Oct 19	**Christina Psaroudaki**, Caltech	**Skyrmion Twist to Quantum Computing**. Contact: Alex Grutter
Nov 8	**Robert J. Macfarlane**, MIT	**Macroscopic Materials from Nanoparticle Assembly.** Contact: Jonathan Gaudet or Craig Brown
Nov 18	**Zaijing Sun.** University of Nevada	**A Preliminary Study of the Organic and Nonorganic Food Ingredients with Instrumental Neutron Activation Analysis.** Contact: Susana Teixeira
Dec 10	**Susan Krueger.** NIST Center for Neutron Research	**What Can We Learn about Nanoparticle Vaccine Structure from SANS and SAXS?** Contact: Susana Teixeira