2019 Experimental Techniques in Quantum Sensing and Information Workshop

Organizing Committee
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Thursday (3/21):

0845 Brad Sherrill - Introductory Comments

0900 John Bartholomew - Caltech - Quantum technologies using rare-earth ions in crystals

0945 Sean Liddick - MSU - Detectors for Nuclear Science

1030 Coffee Break

1100 David Hucul - Army Research - 133Ba+: high fidelity goldilocks qubits

1145 Matt Redshaw – CMU - Ion Trapping for Mass Measurements in Nuclear Physics

1230 Lunch

1400 Noah Oblath - PNNL - Quantum Sensing for the Project 8 Experiment

1445 Brent VanDevender - PNNL - Environmental Radiation and Coherence Times in Superconducting Qubits

1530 Michael Bishof - ANL - Detecting single krypton atoms to determine groundwater age

1615 Coffee Break

1645 Discussion

1745 NSCL Tour

1815 Dinner

Friday (3/22):

0830 Coffee

0900 Johannes Pollanen – MSU - Hybrid quantum systems based on electrons on helium and superconducting qubits

0945 Chase Boulware – Niowave - High-quality factor three-dimensional superconducting resonators for quantum information science

1030 Break

1100 Siqi Li - SLAC - Electron ghost imaging

1145 Olivier Pfister - Virginia - Experimental quantum sensing and quantum computing with the quantum optical frequency comb

1230 Lunch

1330 FRIB Tour for Speakers

1430 Kei Minamisono - MSU – Laser spectroscopy on short-lived isotopes

1515 Tim Chupp - Michigan – (quantum sensing in EDM experiments)

1600 Tyler Cocker - MSU – (high resolution ultrafast sensing)

1645 Discussion

1745 Free Time

1815 Dinner