

Presenter	Institution	Poster Title
Michael N. Bishof	Argonne National Laboratory	Using adaptive optics to improve ultracold atom transport
Peter Mueller	Argonne National Laboratory	The Argonne TRACER Center: Advances in Atom Trap Trace Analysis
Tenzin Rabga	Argonne National Laboratory	Upgrades for an Improved Measurement of the EDM of Ra-225
Andrew Lesak	Kenyon College	Progress in quantifying the impact of state-mixing interactions on the Rydberg excitation blockade
Ajithamithra Dharmasiri	Miami University	Noise enabled ratchets in dissipative optical lattices
Hok Wai Chang	Miami University	Shortcuts to Adiabaticity for Transport of Quantum System Using BFGS Algorithm
Imran M. Mirza	Miami University	Electromagnetically induced transparency in chiral and bidirectional disordered waveguide QED
Kenneth J. DeRose	Miami University	Dicke Narrowing and Ultra Slow Light in Warm Atomic Vapor for the Advanced Undergraduate Laboratory
Roy A. Ready	Michigan State University	Electric field upgrades for the Radium-225 Electric Dipole Moment Search
Chloe E. Lohmeyer	Northwestern University	Development of the Rotary Stage for the ARIADNE Axion Experiment
Evan Weisman	Northwestern University	Short-Range Force Sensing using Optically Levitated Nanospheres
Ivan Antonov	Northwestern University	Spectroscopy of rotationally cold SiO ⁺
James Dragan	Northwestern University	Development of Nondestructive Single-Molecule Spectroscopy Utilizing Photon Recoil Readout
Sruthi Venkataramanabu	Northwestern University	Laser cooled fluorescence mass spectroscopy of molecular ions using cold atomic ions

Ashwin Boddeti	Purdue University	Long range dipole-dipole interactions
Changyuan Lyu	Purdue University	Dynamical Quantum Phase Transitions in Interacting Atomic Interferometers
Cheng-An Chen	Purdue University	Engineering Quantum Transport in Atomic Quantum Gas
Esat Kondakci	Purdue University	Coherent Control of a Photo-Chemical Reaction with Ultracold Atoms
Farid Kalhor	Purdue University	Near-Field Spin Photonics
George Toh	Purdue University	Spectroscopic measurements in Cesium
Hyunwoo Lee	Purdue University	Hypervectorial Treatment and Adiabatic Energy Surfaces for 3 Quasi-1D Bosons
Jungu Choi	Purdue University	Toward the measurement of the parity violating transition amplitude and the anapole moment in the cesium ground hyperfine states
Michael D. Higgins	Purdue University	Low Energy Scattering of Spin-Polarized Positronium
Sayan Choudhury	Purdue University	Frustration induced quasi-many-body localization without disorder
Troy A. Seberson	Purdue University	Parametric Feedback Cooling of Rigid Body Nanodumbbells in Levitated Optomechanics
Tyler Sentz	Purdue University	Long range dipole-dipole interactions
Tzu-Han Chang	Purdue University	Trapping single atoms on a nanophotonic circuit with configurable tweezer lattices
Xueji Wang	Purdue University	TBD
Yangqian Yan	Purdue University	Emergent periodic and quasiperiodic lattices on surfaces of synthetic Hall tori and synthetic Hall cylinders
Claire M. Baum	University of Chicago	Sculpting the atomic spectral density to make Floquet polaritons
Geyue Cai	University of Chicago	Mediated Interactions in a Fermi-Bose Quantum Degenerate Mixture

John C. Owens	University of Chicago	Engineering microwave topological materials from superconductors
Jonathan Trisnadi	University of Chicago	Super-resolution microscopy of cold atoms in an optical lattice and the construction of a quantum matter synthesizer
Kai-Xuan Yao	University of Chicago	Super-resolution microscopy of cold atoms in an optical lattice and the construction of a quantum matter synthesizer
Mark Stone	University of Chicago	Engineering Strong Interactions Between mm-Wave and Optical Photons
Zhendong Zhang	University of Chicago	TBD
Alex An	University of Illinois at Urbana-Champaign	Many-body effects in synthetic lattices
Eric Meier	University of Illinois at Urbana-Champaign	Evidence for the topological Anderson insulator
Jackson Ang'ong'a	University of Illinois at Urbana-Champaign	Towards single atom imaging on ultra-cold potassium
Karmela Padavic	University of Illinois at Urbana-Champaign	Static and dynamic properties of shell-shaped Bose-Einstein condensates
Laura Wadleigh	University of Illinois at Urbana-Champaign	Hubbard Thermalization and Dynamics over Long Timescales
Michael A. Highman	University of Illinois at Urbana-Champaign	Towards NaRb molecules, a multipurpose platform
Will Morong	University of Illinois at Urbana-Champaign	Doublon Relaxation in a Disordered Fermi Lattice Gas
Andira Ramos	University of Michigan	Towards a Precision Measurement of the Rydberg Constant Using Circular Rydberg Atoms
Jamie MacLennan	University of Michigan	Spectroscopy of nD Rydberg-ground molecules in ⁸⁷ Rb and ⁸⁵ Rb
Aedan R. Gardill	University of Wisconsin – Madison	Progress towards correlated defect magnetometry with nitrogen vacancy centers in diamond
Benjamin K. Lemberger	University of Wisconsin – Madison	TBD
Brandon Grinkemeyer	University of Wisconsin – Madison	Single Atom Trapping and Imaging Optics for Forming 2-D Arrays of Ytterbium-174

Brett N. Merriman	University of Wisconsin – Madison	Progress Towards a Multiplexed Optical Lattice Clock
Christopher C. Yip	University of Wisconsin – Madison	Optical Dipole Trapping of Holmium
Christopher Young	University of Wisconsin – Madison	Progress towards Rydberg-mediated entanglement of atomic ensemble qubits
David Gold	University of Wisconsin – Madison	Work towards Raman Generation in Microspheres
Diptaranjan Das	University of Wisconsin – Madison	Experimental investigations of Subradiance in cold atomic cloud
Juan C. Bohorquez	University of Wisconsin – Madison	Progress Towards a Hybrid Rydberg Atom, Superconductor Quantum Interface
Maxwell S. Granger	University of Wisconsin – Madison	Plans and Progress Towards a Multiplexed Optical Lattice Clock
Megan Tabbutt	University of Wisconsin – Madison	Progress Towards a Multiplexed Optical Lattice Clock
Minho Kwon	University of Wisconsin – Madison	Progress towards Rydberg-mediated entanglement of atomic ensemble qubits
Preston R. Huft	University of Wisconsin – Madison	Progress toward Rydberg-mediated entanglement of atom ensemble qubits
Susan S. Sorensen	University of Wisconsin – Madison	Synchronous Spin-Exchange Optically Pumped NMR Gyro
Trent M. Graham	University of Wisconsin – Madison	Quantum gates in a blue detuned optical lattice
Wangping Ren	University of Wisconsin – Madison	Progress towards correlated defect magnetometry with nitrogen vacancy centers in diamond
Zachary N. Buckholtz	University of Wisconsin – Madison	Towards EIT on an Optical Magnetic Dipole Transition