

2012 Midwestern Cold Atom Workshop

All talks will be held in Loomis 141, and will be 20 minutes plus 5 minutes for questions. Breakfast and coffee breaks will be in the lobby area outside 141. Lunch and the poster session will be held in the “walnut hallway” (around the corner from 141 on the 1st floor of Loomis) and adjacent rooms.

	Activity/Chair	Speaker	Title
8:00-9:00	Registration & Breakfast		
9:00-9:25	Yong Chen	Brian DeMarco (University of Illinois)	<i>Introduction to MCAW 2012 and DeMarco Group Experiments</i>
9:25-9:50		Wei Jiang (Argonne National Lab)	<i>TBA</i>
9:50-10:15		Yen-Wei Lin (Northwestern University)	<i>State readout by coherent motion with few-photon seeding</i>
10:15-10:30	Coffee break		
10:30-10:55	Jon Simon	Marty Lichtman (University of Wisconsin)	<i>Development and characterization of a 6-site blue-detuned Cesium trap array</i>
10:55-11:20		Skyler Degenkolb (University of Michigan, Leanhardt group)	<i>Precision Magnetometry and the Neutron Electric Dipole Moment at FRM-II</i>
11:20-11:45		Chen Zhang (Purdue University, Greene group)	<i>Ultracold scattering and molecule formation in a Bose-Fermi mixture</i>
11:45-12:10		Rebecca Holmes (University of Illinois, Kwiat group)	<i>Determining the Lower Limit of Human Vision Using a Single-Photon Source</i>
12:10-2:00	Lunch & lab tours		
12:45-1:15	Lab tour I		
1:15-1:45	Lab tour II		
1:45-2:00	Clean up, reconvene		

2:00-2:25 Brian Odom Abraham Olson
(Purdue University, Chen group) *Purdue Updates --- Gauge fields, spin-orbit coupling, and photo-association*

2:25-2:50 Shih-Kuang Tung (University of Chicago, Chin Group) *Identification of collisional resonances and three-body universality based on an ultracold mixture of Li-6 and Cs-133 atoms*

2:50-3:15 Eric Paradis (University of Michigan, Raithel group) *High-magnetic field atom trapping and Rydberg spectroscopy*

3:15-3:40 Jon Simon (University of Chicago, Simon group) *Engineering Quantum Materials from Cold Atoms: Mott Insulators to Emergent Crystals*

3:40-5:00 Poster session & snacks