MI Quantum Summer School Program

Talk Schedule for week 2: August 9th - 13th

Monday	Amount	Oth
Monday,	August	7III

Time	
8:00-9:00am	Breakfast (335 & 337 West Hall)
9:00-10:00am	Brian DeMarco (University of Illinois at Urbana-Champaign) Experimental aspects of ultra-cold atoms in optical lattices, including spin-dependent lattices
10:00-10:30am	COFFEE BREAK (335 & 337 West Hall)
10:30-11:30am	Ana Maria Rey (JILA) Ultra-cold atoms in optical lattices: an overview
11:30-1:30pm	LUNCH & DISCUSSION (Ground Level Food Court in Ross School of Business)
1:30-2:30pm	Ana Maria Rey (JILA) Ultra-cold atoms in optical lattices: an overview
2:30-3:30pm	Joseph Thywissen (Toronto) Quantum Gas Basics
3:30-4:00pm	COFFEE BREAK (335 & 337 West Hall)
4:00-5:00pm	Joel Moore (University of California, Berkeley) Searching for non-equilibrium universality with ultracold atoms
5:00-6:00pm	Poster Session & Discussion

Tuesday,	Amount	10th
Tuesuay,	August	1011

Time	
8:00-9:00am	Breakfast (335 & 337 West Hall)
9:00-10:00am	Ana Maria Rey (JILA) Ultra-cold atoms in optical lattices: an overview
10:00-10:30am	COFFEE BREAK (335 & 337 West Hall)

10:30-11:30am	Brian DeMarco (University of Illinois at Urbana-Champaign) Experimental aspects of ultra-cold atoms in optical lattices, including spin-dependent lattices
11:30-1:30pm	LUNCH & DISCUSSION (Ground Level Food Court in Ross School of Business)
1:30-2:30pm	Joseph Thywissen (Toronto) Bose Josephson Junctions
2:30-3:30pm	Dan Stamper-Kurn (University of California, Berkeley) Spinor Bose gases
3:30-4:00pm	COFFEE BREAK (335 & 337 West Hall)
4:00-5:00pm	Joel Moore (University of California, Berkeley) Quantum information concepts in condensed matter
5:00-6:00pm	Poster Session & Discussion

Wednesday, August 11th	
Time	
8:00-9:00am	Breakfast (335 & 337 West Hall)
9:00-10:00am	Joel Moore (University of California, Berkeley) Realizing topological phases with ultracold atoms
10:00-10:30am	COFFEE BREAK (335 & 337 West Hall)
10:30-11:30am	Brian DeMarco (University of Illinois at Urbana-Champaign) Experimental aspects of ultra-cold atoms in optical lattices, including spin-dependent lattices
11:30-1:30pm	LUNCH & DISCUSSION (Ground Level Food Court in Ross School of Business)
1:30-2:30pm	Joseph Thywissen (Toronto) Ultracold Ferromagnetism
2:30-3:30pm	James Thompson (JILA) Fundamentals of Cavity QED
3:30-4:00pm	COFFEE BREAK (335 & 337 West Hall)
4:00-5:00pm	Dan Stamper-Kurn (University of California, Berkeley)

Spinor Bose gases / Cavity optomechanics

5:00-6:00pm Poster Session & Discussion

	Thursday, August 12th
Time 8:00-9:00am	Breakfast (335 & 337 West Hall)
9:00-10:00am	Dan Stamper-Kurn (University of California, Berkeley) Cavity optomechanics
10:00-10:30am	COFFEE BREAK (335 & 337 West Hall)
10:30-11:30am	Seth Lloyd (MIT) Simulating the Universe
11:30-1:30pm	LUNCH & DISCUSSION (Ground Level Food Court in Ross School of Business)
1:30-2:30pm	Seth Lloyd (MIT) Simulating the Universe
2:30-3:30pm	James Thompson (JILA) Beating Quantum Projection Noise
3:30-4:00pm	COFFEE BREAK (335 & 337 West Hall)
4:00-5:00pm	Luming Duan (University of Michigan)
	Quantum simulation of many body physics with cold atoms and classical computers
5:00-6:00pm	Poster Session & Discussion
Friday, August 13th	
Time 8:00-9:00am	Breakfast (335 & 337 West Hall)
9:00-10:00am	James Thompson (JILA) Collective Interactions between Atoms and Light
10:00-10:15am	COFFEE BREAK (335 & 337 West Hall)

10:15-11:30am	LAB TOURS (see sign-up sheet at registration desk)
11:30-1:30pm	LUNCH & DISCUSSION (Ground Level Food Court in Ross School of Business)
1:30-2:30pm	Georg Raithel (University of Michigan) Applications of Rydberg Atoms in QIP
2:30-3:30pm	Seth Lloyd (MIT) Simulating the Universe
3:30-4:00pm	Closing Remarks
4:30pm	Dominick's