


INT Program INT 15-1

Frontiers in Quantum Simulation with Cold Atoms

March 23 – May 8, 2015



Monday, April 6, 2015

Room C-421, Physics/Astronomy Tower

10:00am Peter Zoller, University of Innsbruck, & Uwe-Jens Wiese, University of Bern
Discussions on open systems

Tuesday, April 7, 2015

Room C-421, Physics/Astronomy Tower

9:30am Aurel Bulgac, University of Washington
“Thermodynamics properties and transport coefficients of a Fermi gas around unitarity.”

10:45am Vijay Shenoy, Indian Institute of Science
“Fermions in synthetic gauge fields and synthetic dimensions”

Wednesday, April 8, 2015

Room C-421, Physics/Astronomy Tower

9:30am Peter Zoller, University of Innsbruck
“Exotic Spin Models with Rydberg Atoms”

10:45am Tin-Lun Ho, Ohio State University
“Quantum Gases in curved space”

Thursday, April 9, 2015

Room C-421, Physics/Astronomy Tower

9:30am Matteo Rizzi, Johannes Gutenberg-Universität Mainz
“Strongly correlated states of trapped ultracold fermions in a U(2) gauge potential”

10:45am Xiaopeng Li, Joint Quantum Institute
“Loop current order and spontaneous gauge fields in optical lattices”

Friday, April 10, 2015

Room C-421, Physics/Astronomy Tower

9:30pm Michael Forbes, Washington State University
“Realtime Methods for Superfluid Dynamics”

10:45pm Stefan Natu, University of Maryland
“Spin-1 spin-orbit coupled bosons”

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