



Condensed Matter Theory Center Fall 2008 Symposium

October 15, 2008
2202 Physics Building
<http://www.physics.umd.edu/cmtc>

All talks are 30 minutes.

9:00 AM–11:30 AM COLD ATOMS

Michael Peterson, “**Correlated d-Mott state in fermionic cold atoms**”
Roman Lutchyn, “**Fermion-boson mixture in cold atoms**”
Bin Wang, “**Interacting fermions in a 1D optical lattice**”
Victor Galitski, “**Spin-orbit coupling in cold atoms**”
Ian Spielman, “**Effective vector potentials and magnetic fields in a Rb BEC**”

11:30 AM–12:00 PM 2D GRAPHENE

Michael Fuhrer, “**Intrinsic and extrinsic limits of charge carrier mobility in graphene**”

12:00 PM–1:00 PM LUNCH BREAK

1:00 PM–3:00 PM 2D GRAPHENE (*continued*)

Euyheon Hwang, “**Temperature-dependent graphene transport**”
Enrico Rossi, “**Effective medium theory of disordered two-dimensional graphene**”
Dimitrie Culcer, “**Pseudospin dynamics in graphene**”
Shaffique Adam, “**Crossover from quantum to semi-classical transport in graphene**”

3:00 PM–3:30 PM SEMICONDUCTORS & SUPERCONDUCTORS

Bruce Kane, “**Sixfold-valley-degenerate-electrons on a silicon surface**”

3:30 PM–4:00 PM COFFEE BREAK

4:00 PM–6:00 PM SEMICONDUCTORS & SUPERCONDUCTORS (*continued*)

Lukasz Cywinski, “**Electron spin decoherence in a nuclear spin bath**”
Tudor Stanescu, “**Multiorbital fluctuations in pnictide superconductors**”
Handong Chen, “**Kitaev model and p-wave BCS superconductivity**”
Qi Li, “**Skyrmions in p-wave superconductors**”