

# Frontiers of quantum condensed matter physics: light, matter and unusual devices out of equilibrium

<http://www.bnl.gov/fqcmp2013/>

**Registration is required for this event, please contact: vadim.oganesyan@gmail.com**

Organizers: R.Konik (BNL), A. Mitra (NYU), V. Oganessian (CUNY), A. Polkovnikov (BU)

Dates: March 25-28, 2013

Location: Rm. 4102, the Graduate Center of CUNY, 365 5<sup>th</sup> Avenue, NY,NY (official picture ID is required to enter the building)

Overview: This workshop will bring together a diverse group of experts working in the burgeoning area of research into quantum dynamics of dis-equilibrated many-body systems. Rapid advances in fields of cold atoms, ultraclean semiconductor devices, nuclear magnetic resonance and structural dynamics necessitate a meeting such as this that will focus on some of the most recent and exciting developments both in experiments and theory. Organizational emphasis is placed on spontaneous small group discussions rather than dense presentation schedule. Lunch and coffee breaks will be served.

Participants: Akhanjee (BNL), Andrei (Rutgers), Averitt (BU), Bernier (UBC), Bhaseen (KCL), Cardy (Oxford), Chandran (Princeton), Cwik (St.Andrews), delCampo (LANL), Dutt (Yale), Dzero (Kent), Essler (Oxford), Feiguin (Northeastern), Fine (Heidelberg), Gasenzer (Heidelberg), Grisins (Vienna/BU), Hooley (St. Andrews), Huse (Princeton), James (BNL), Kantian (Geneva), Keeling (St.Andrews), Kehrein (Goettingen), Khemani (Princeton), Kim (Princeton), Kirton (St. Andrews), Kollar (Augsburg), Kolodrubetz (BU), Krapivsky (BU), Kulkarni (Princeton), Levchenko (MSU), Mandt (Princeton), Manmana (Goettingen), Marquardt (Erlangen), Mathey (Hamburg), Millis (Columbia), Moore (Berkeley), Pletyukhov (Aachen/BU), Pustilnik (GeorgiaTech), Ramanathan (Dartmouth), Rigol (PennState), Santos (Yeshiva), Schiro (Princeton), Schuricht (Aachen), Sirker (TU Kaiserslautern), Schmiedmayer (Vienna), Snoke (Pitt), Stokes (BC), Yuzbashyan (Rutgers)

Schedule (subject to change):

Starting at	9am	10:30	11	11:45	12:30	3	3:30	4:15
Monday	Averitt	Coffee	Essler	Moore	Lunch	Coffee	Fine	Ramanathan
Tuesday	Keeling	Break	Snoke	Kantian	Lunch	Fix	Marquardt	Sirker
Wednesday	Schmiedmayer	Coffee	Rigol	Feiguin	Lunch	Coffee	Gasenzer	Bhaseen
Thursday	Cardy	Break	Kehrein	Yuzbashyan	Lunch	Fix	Mathey	Schuricht

Talk titles: A quantum version of the Kac ring (Kehrein); Structure formation out of quantum fluctuations in clouds of cold atoms (Marquardt), Dynamical phase transitions after quenches in non-integrable models (Schuricht), Non-Thermal Fixed Points: From Bose gases to gauge fields (Gasenzer)