

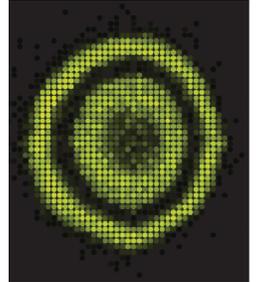
ITS @ The Graduate Center

Initiative for the Theoretical Sciences

Snapshots of quantum dynamics: constraints, integrability and hidden orders

Lectures will be held in the Science Center (Room 4102).
The Graduate Center is located at 365 Fifth Avenue,
between 34th and 35th Streets, in Manhattan.

This workshop is part of a continuing series of informal annual meetings on nonequilibrium quantum dynamics. Topics to be covered fall in four broad categories: (1) new concepts such as many-body quantum scars, fractons, and more generally the role constraints play in unconventional many-body quantum dynamics; (2) recent developments in integrable systems, particularly the understanding of diffusion and the dynamics of quantum information; (3) unifying the emerging understanding of dynamics in isolated quantum systems with what is known about the dynamics of dissipative systems; and (4) experimental developments in quantum gas microscopes and related settings that allow one to take single snapshots of many-body systems, and therefore enable one to probe new classes of theoretical objects, such as non-local order parameters and multipoint correlators.



March 11-13, 2019 at the Graduate Center, CUNY

Organizers:

Anushya Chandran (Boston University)
Sarang Gopalakrishnan (CUNY)
Robert Konik (Brookhaven National Lab)
Chris Laumann (Boston University)
Vadim Oganesyan (CUNY)
Anatoli Polkovnikov (Boston University)

Invited speakers:

Vincenzo Alba (University of Amsterdam)
M. Joe Bhaseen (Kings College London)
Fiona Burnell (University of Minnesota)
Claudio Castelnovo (University of Cambridge)
Sebastian Diehl (University of Cologne)
Anatoly Dymarsky (University of Kentucky)
Andrew Green (University College London)
David Huse (Princeton University)
Itamar Kimchi (JILA)
Michael Knap (Technical University of Munich)
Alicia Kollar (Princeton University)
Michael Kolodrubetz (University of Texas at Dallas)
Zala Lenarcic (University of California at Berkeley)
Aditi Mitra (New York University)
Rahul Nandkishore (University of Colorado at Boulder)
Jed Pixley (Rutgers University)
Leo Radzihovsky (University of Colorado at Boulder)
Marcos Rigol (Pennsylvania State University)
Antonello Scardicchio (ICTP Trieste)
Dominik Schneble (Stony Brook University)
Brian Skinner (MIT)
Shivaji Sondhi (Princeton University)
Romain Vasseur (UMass Amherst)
Emil Yuzbashyan (Rutgers University)

