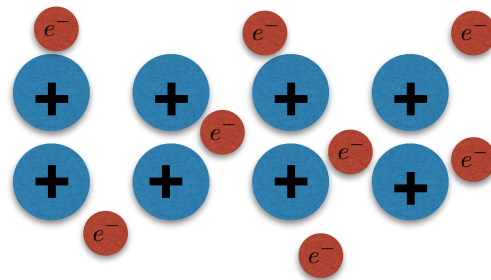


What is condensed matter?

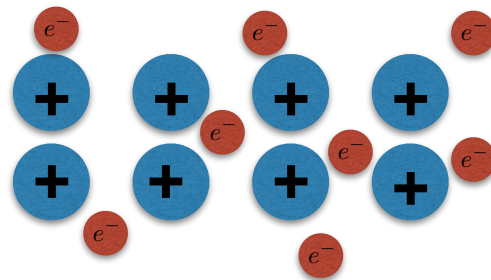
Emergence of collective macroscopic properties from many many ($\sim 10^{23}$) microscopic constituents



Metal, insulator,
semiconductor,
semimetal, magnet,
superconductor...

What is condensed matter?

Emergence of collective macroscopic properties from many many ($\sim 10^{23}$) microscopic constituents

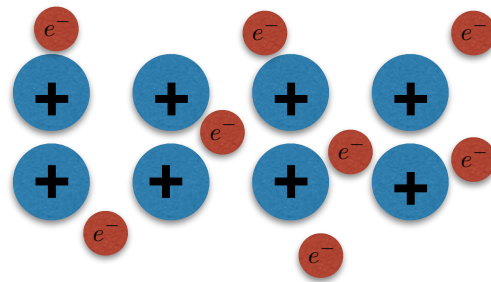


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Universality across different systems (e.g. quantized conductance, order parameter..)

What is condensed matter?

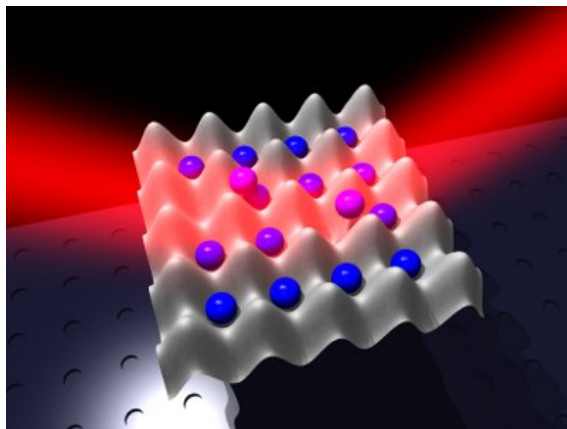
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Quantum simulation and computation



Connections with computer
science, statistical physics,
quantum optics, quantum
information

Condensed Matter Theory at Boston University



David Campbell



Anders Sandvik



Claudio Chamon



Anushya Chandran



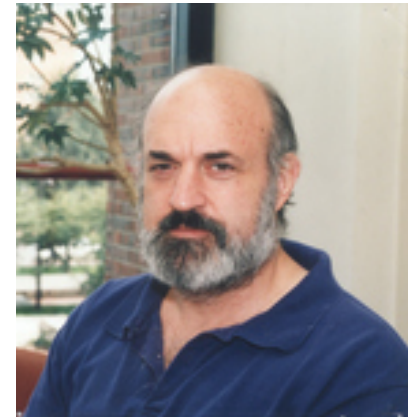
Andrei Ruckenstein



Anatoli Polkovnikov



Chris Laumann



Bill Klein

Condensed Matter Theory at Boston University



Machine learning

Out of equilibrium systems

Fractons

Floquet Dynamics

Dirty Deflagration

Frustrated magnets

Low dimensional materials

Many-body localization

Quantum Hall Effect

Chandran

Ultracold atoms

Quantum glassiness

Entanglement

Earthquakes

Fractionalization

Quasiperiodic Driving

Superconductivity

Hydrodynamics

Nonlinear Dynamics

Quantum Computation

Topology

Bubbles and Nucleation

Quantum Critical Dynamics

MBTA Dynamics

Quantum Monte Carlo

Condensed Matter Theory at Boston University



Bio / Statistical

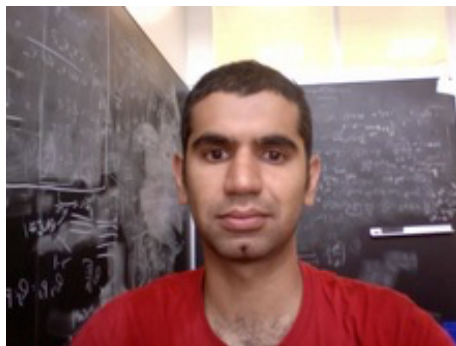
Affiliated Faculty



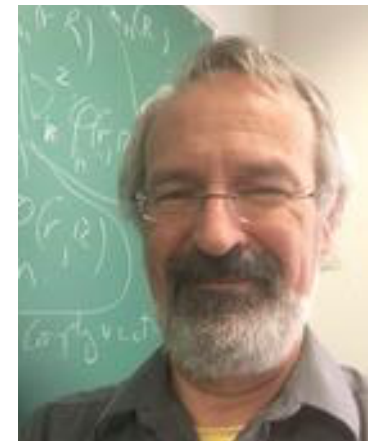
Kirill Korolev



Sahar Sharifzadeh



Pankaj Mehta



David Coker