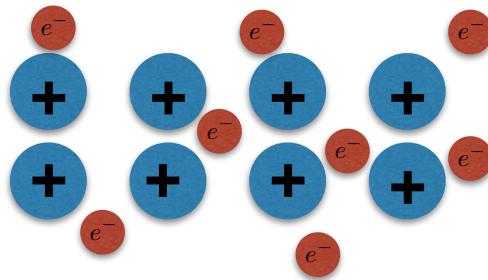


What is condensed matter?

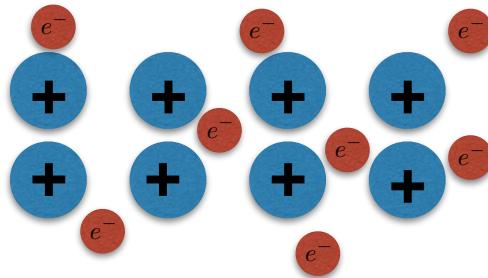
Emergence of collective macroscopic properties from many many ($\sim 10^{23}$) microscopic constituents



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

What is condensed matter?

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

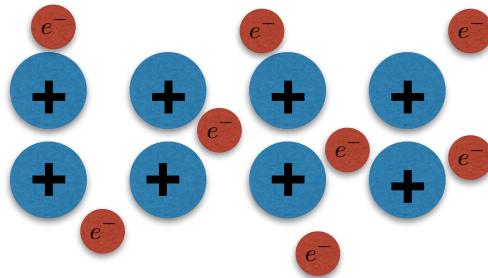


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Universality across different systems (e.g. quantized conductance, order parameter..)

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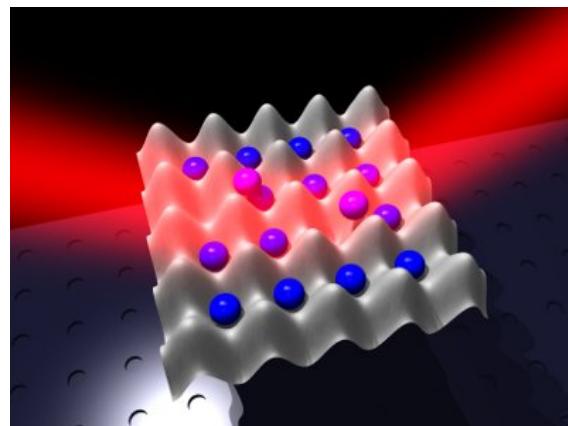
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Quantum simulation and computation



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

Condensed Matter Theory at Boston University

BU



David Campbell



Anders Sandvik



Claudio Chamon



Anushya Chandran



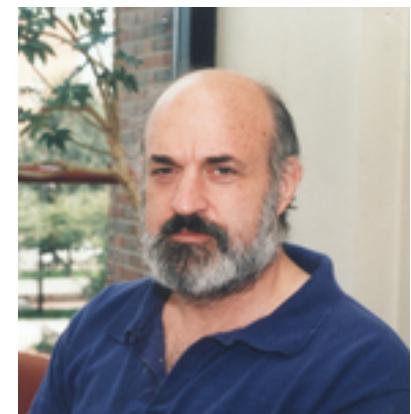
Andrei Ruckenstein



Anatoli Polkovnikov



Chris Laumann



Bill Klein

Condensed Matter Theory at Boston University



Machine learning

Out of equilibrium systems

Floquet Dynamics

Dirty Deflagration

Frustrated magnets
Anders Sandvik

Fractons

Low dimensional materials

Many-body localization
David

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

Andrea
Baldassari

nikov

Quinn Kaufmann

Bio / Statistical



Kirill Korolev

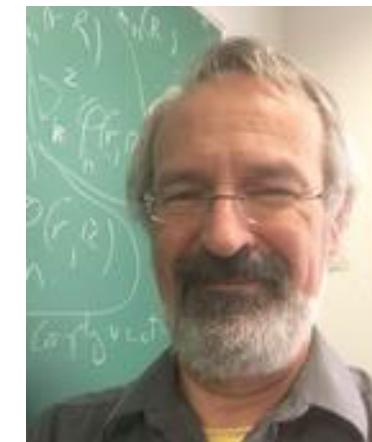
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