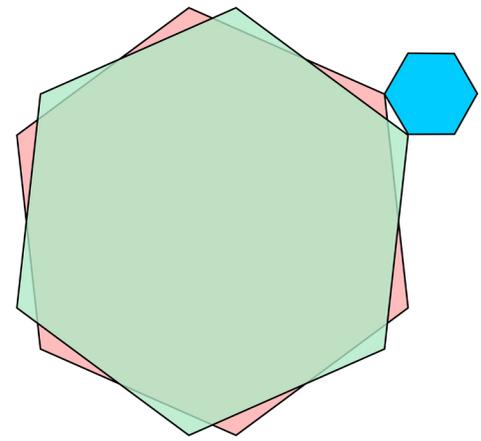
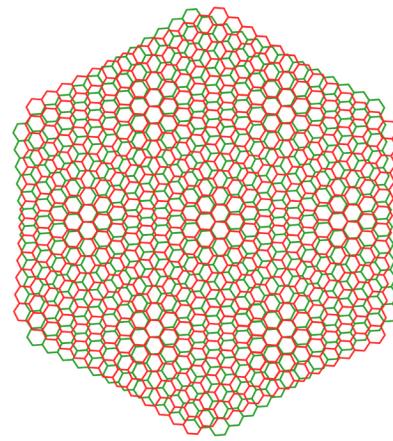
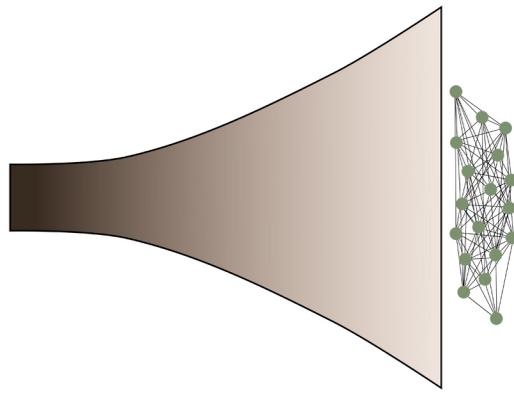
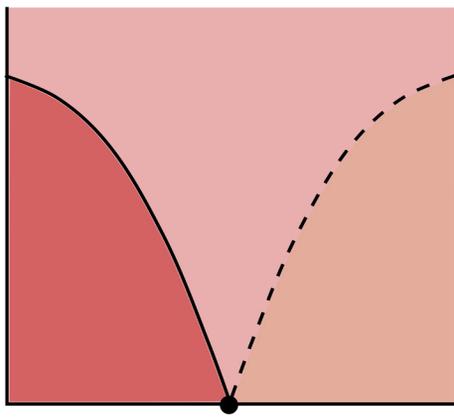


THEORY WINTER SCHOOL

January 6 - 10, 2020

NATIONAL HIGH MAGNETIC FIELD LABORATORY - TALLAHASSEE, FL

QUANTUM MATTER WITHOUT QUASIPARTICLES



Application Deadline: October 18, 2019

The National High Magnetic Field lab will hold its 8th Theory Winter School in Tallahassee, Florida on 6-10 January, 2020. This year's School will focus on "Quantum Matter Without Quasiparticles", a subject inspired by recent developments in condensed matter physics and beyond. These developments shed new light on open questions of quantum criticality, unconventional superconductivity, and new types of topological phases of matter. The tentative topics of the school include electron transport without quasiparticles, Sachdev-Ye-Kitaev models, novel phases in twisted bilayer graphene, fracton topological phases, deconfined quantum criticality, and many-body localization.

Confirmed Lecturers:

- | | | | |
|---------------------|--|-------------------|--|
| • Chandran, Anushya | <i>Boston University</i> | • Levitov, Leonid | <i>Massachusetts Institute of Technology</i> |
| • Fu, Liang | <i>Massachusetts Institute of Technology</i> | • Lucas, Andrew | <i>Stanford University</i> |
| • Kee, Hae-Young | <i>University of Toronto</i> | • Raghu, Srinivas | <i>Stanford University</i> |
| • Kim, Philip | <i>Harvard University</i> | • Vafeek, Oskar | <i>Florida State University/MagLab</i> |
| • Lee, Sung-Sik | <i>McMaster University & Perimeter Institute</i> | • Xu, Cenke | <i>University of California, Santa Barbara</i> |

In addition to the formal lectures, we will include poster sessions, and ample discussion time to allow direct exchange of ideas with the lecturers and each other.

For more information please visit conference website at
<https://nationalmaglab.org/theory-winter-school>

Organizers:

- | | |
|--------------------------|-----------------------------------|
| Piers Coleman | <i>Rutgers</i> |
| Dmitrii Maslov | <i>Univ. of Florida</i> |
| Rahul Nandkishore | <i>Univ. of Colorado, Boulder</i> |
| Yuxuan Wang | <i>Univ. of Florida</i> |

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Sponsors:

