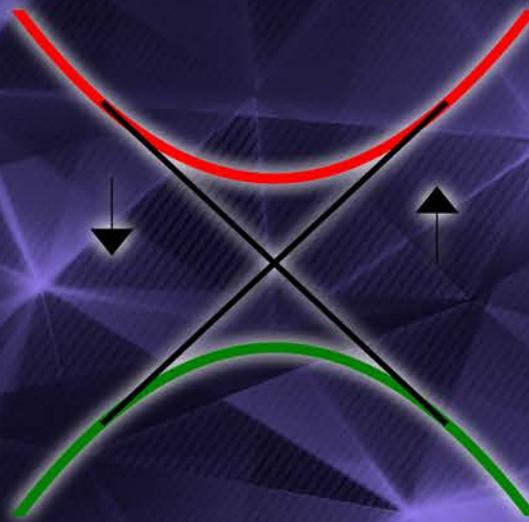
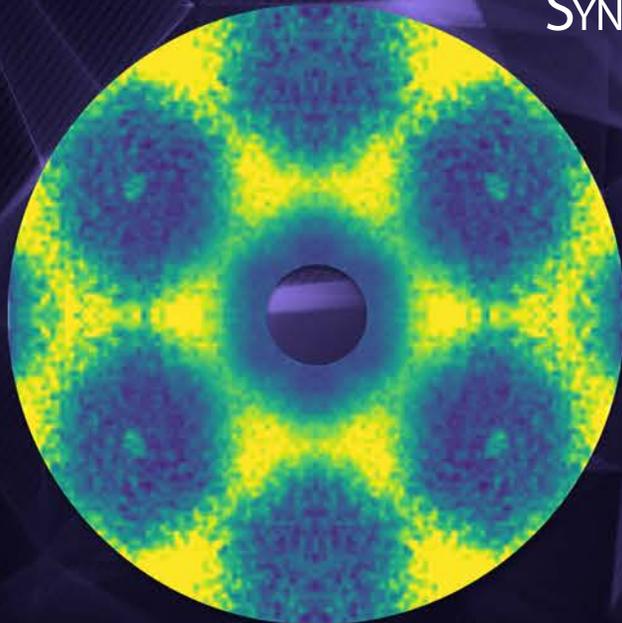


THEORY WINTER SCHOOL

January 7 - 11, 2019

NATIONAL HIGH MAGNETIC FIELD LABORATORY - TALLAHASSEE, FL

SYNERGIES BETWEEN REAL MATERIALS, MODEL HAMILTONIANS, AND BEYOND



Application Deadline: November 15, 2018

The National High Magnetic Field lab will hold its seventh Theory Winter School in Tallahassee, Florida from January 7 to 11 2019. This year's theory school is a concerted effort to address several challenges in modern condensed matter physics. Recent computational advances and new analytic insights suggest the need for multifaceted approaches that bring together the study of model Hamiltonians, ab-initio methods and experiments to gain new understanding of quantum materials. This synergy between communities will impact endeavors where theory is guiding new discoveries. The themes of the school are: Strongly correlated and quantum spin liquid physics, Weyl and topological physics and new computational techniques.

Confirmed Lecturers:

- | | | | |
|----------------------|--------------------------------|-------------------------|----------------------|
| • B. Andrei Bernevig | <i>Princeton</i> | • Kristjan Haule | <i>Rutgers</i> |
| • Collin Broholm | <i>Johns Hopkins</i> | • Efstratios Manousakis | <i>FSU and NHMFL</i> |
| • Jennifer Cano | <i>Stony Brook</i> | • Nandini Trivedi | <i>Ohio State</i> |
| • Andrey Chubukov | <i>University of Minnesota</i> | • Steve White | <i>UC Irvine</i> |
| • Rebecca Flin | <i>Iowa State</i> | | |

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

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

Organizers:

- | | |
|--------------------------------|--------------------------------|
| Turan Birol | <i>University of Minnesota</i> |
| Hitesh Changlani | <i>FSU and NHMFL</i> |
| Vladimir Dobrosavljevic | <i>FSU and NHMFL</i> |
| Laura Greene | <i>FSU and NHMFL</i> |
| Kemp Plumb | <i>Brown University</i> |

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Sponsors:

