

ICMT SUMMER SCHOOL 2016
AUGUST 8-12, 2016

CONDENSED MATTER THEORY

\mathbb{Z}^d ~~Space (one particle)~~
 $|\vec{m}, \alpha\rangle, m \in \mathbb{Z}^d, \alpha=1, \dots, N$

INTRODUCTION TO TOPOLOGICAL PHASES OF MATTER

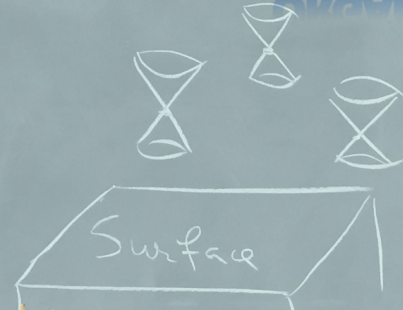
LECTURERS:

- Fiona Burnell (Minnesota)
- Roger Mong (Pittsburgh)
- Yuan-Ming Lu (Ohio)
- Michael Levin (Chicago)
- Spyridon Michalakis (Caltech)

$|\vec{m}, \alpha\rangle = |\vec{m} + \vec{e}_j, \alpha\rangle$, (Shift operators)
 $\otimes (S_j - S_j^*) + \Gamma_a \otimes (m + \frac{1}{2} \sum^d (S_j + S_j^*))$

ORGANIZERS: SHINSEI RYU
EMIL PRODAN

Weyl on Dirac
Nodes



ILLINOIS



National Science Foundation
WHERE DISCOVERIES BEGIN