

Massachusetts Institute of Technology  
Department of Physics

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Condensed Matter Theory Seminar

"Time-reversal and reflection symmetry in (2+1)-dimensional topological phases"

**Meng Cheng**, Yale University

**Abstract:** There has been immense progress recently in the understanding of interacting topological phases of matter in the presence of symmetry. I will discuss recent developments for the case of time-reversal / reflection symmetry-enriched topological (SET) phases. I will derive a simple formula for the ground state degeneracy of such SETs on non-orientable manifold. I then use these results to develop an understanding of anomalies associated with time-reversal / reflection SETs. If time permits, I will discuss explicit constructions of time-reversal/reflection SETs, including anomalous ones.

12:00pm  
Tuesday, April 4, 2017  
Duboc Room (4-331)

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Host: Liang Fu