

Massachusetts Institute of Technology
Department of Physics

Condensed Matter Theory Seminar

“Topological insulators and superconductors”

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Abstract: Topological insulators and superconductors are new quantum states of matter that are characterized by nontrivial topological structures of the Hilbert space. The family of topological materials is expanding with the recent discovery of topological crystalline insulators. In this seminar, I will introduce the basics of those materials and present some of the key contributions we have made in this new frontier. In particular, I will present recent experimental results on the candidate topological superconductor $\text{Cu}_x\text{Bi}_2\text{Se}_3$ and the topological crystalline insulator SnTe .

11:00am
Friday, December 4, 2015
Duboc Seminar Room (4-331)