

DEPARTMENT OF PHYSICS

CMT Seminar

**Monday, November 13th, 2017
3:00 pm Room 4138 PRB**

**Fiona Burnell
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School of Physics and Astronomy**

**“Signatures of gapless
boundary modes in Kitaev
spin liquids.”**



Recent progress in synthesizing insulators with a new type of dominant spin-exchange interaction, known as the Kitaev interaction, has opened new possibilities for experimentally realizing spin liquid compounds. Among the distinctive features of these spin liquids is the possibility that they can harbour protected gapless boundary modes which carry spin but not charge. This possibility raises a challenge of how best to detect these chargeless boundary modes. I will discuss two possibilities — Raman scattering and the heat capacity — as well as what such measurements can reveal about the bulk phase.

The other stuff I have ready right now is much more “interacting- SPT” related; I could also give a very introductory talk about that if people would be interested, but let’s just say it probably wouldn’t be up the alley of most people in my own department, and I’m assuming yours is similar.

FACULTY HOST: YUAN-MING LU



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