

Chez Pierre

Presents ...

Thursday, April 18, 2024

12:00 noon- 1:00 pm

Duboc Room 4-331



Special Chez Pierre Seminar

Chetan Nayak, Microsoft

“RF Readout of Topological Qubits”

The fusion of non-Abelian anyons or topological defects is a fundamental operation in measurement-only topological quantum computation. In topological superconductors, this operation amounts to a determination of the shared fermion parity of Majorana zero modes. In this talk, I will discuss the technology that Microsoft has developed to implement this measurement with demonstrated error probability of 1% in InAs-Al hybrid devices.