



Condensed Matter Theory Center Seminar

Parsa Bonderson

(Microsoft Q)

Tuesday, February 23

11:00 AM-12:30 PM

2202 Physics Building

“Topological Quantum Computation & Measurement”

Topologically ordered phases of matter possess "anyons" - quasiparticle excitations with exotic exchange statistics. Anyonic systems can potentially be exploited to provide an intrinsically fault-tolerant medium for quantum information processing. I will explain how this topological approach to quantum computation works and examine the role of measurements in this scheme.