## Massachusetts Institute of Technology Department of Physics

## Condensed Matter Theory Seminar

"Glassy dynamics as a quantum effect"

Zohar Nussinov, Washington University in St. Louis

**Abstract:** We review the underpinning of the microcanonical ensemble and the more refined (and explicitly quantum) "Eigenstate Thermalization Hypothesis". We then find and apply a simple corollary of these to analyze the evolution of a liquid upon supercooling to form a structural glass. Simple theoretical considerations lead to a prediction for the viscosity of all supercooled liquids that seems to be empirically satisfied.

3:00pm Monday, November 2, 2015 Duboc Seminar Room (4-331)

Host: Liang Fu