

Massachusetts Institute of Technology
Department of Physics

Condensed Matter Theory Seminar

“Emergent Length Scales in Supercooled Liquids”

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Abstract: I will first review the physics of supercooled liquids, especially their dramatic slowdown. This slowdown is widely believed to be governed by some emergent length scales, yet to be disclosed fully. For generic many-body systems, I will present a way to characterize one of these length scales through the so-called point-to-set correlations. Furthermore, I will map this length scale to the size of instantons in a replica field theory.

12:00 pm
Friday, November 15, 2013
Duboc Seminar Room
Room 4-331