**Condensed Matter Theory Center Seminar** 

Friday, May 9 at 11:00 am

2205 Physics Building

Speaker: Vadim Oganesyan (City University of New York)

Title: Aspects of Many-Body Localization

Abstract:

Many-body localization is absence of transport in interacting many-body systems

prepared with finite entropy per particle. This behavior is necessarily separated from

conventional diffusion by a dynamical finite temperature transition. Many-body

localized systems can retain detailed memories of initial conditions and therefore

violate thermalization hypothesis underlying standard statistical mechanics description

of interacting systems. This talk will survey recent progress, both theoretical and

experimental, in realizing and understanding many-body localization.

Host: Kostyantyn Kechedzhi

http://www.physics.umd.edu/cmtc/seminars.html