

# Graduate Seminar

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**Thursday, October 24, 2013  
1:00p.m., HH-3017**

*Open Quantum Systems*

**Abstract:**

The temporal evolution of a quantum system is governed by the famous Schroedinger equation. The dynamics of systems which are very large, called open systems, exhibits characteristic effects. For example, information (energy, matter...) can 'travel to infinity' and never return, thus causing irreversibility. In this seminar, I will introduce basic mathematical concepts emerging in the description of open quantum systems. I will explain some research results on the dynamics and outline some ideas behind the techniques used in their derivation.