

DREXEL ANALYSIS SEMINAR

February 10, 2017

12-12:50 PM, Korman 245

Speaker: Matthew Ziemke (Drexel)

Title: Quantum Markov Semigroups and Their Generators

Abstract: Quantum Markov Semigroups (QMSs) arise in the study of the evolutions of irreversible open quantum systems. Mathematically, they are a generalization of classical Markov semigroups where the underlying function space is replaced by a non-commutative operator algebra. With certain assumptions about the semigroup, general forms for the generator of the semigroup can be given. In this talk we will discuss some of these forms which includes one given in a recent work with George Androulakis.