

DREXEL ANALYSIS SEMINAR

December 5, 2014

**3-3:50 PM, Korman 245**

**Speaker:** Ben Grossman (Drexel)

**Title:** Generalized Choi Maps in Three-Dimensional Matrix Algebra (after Cho, Kye & Lee)

**Abstract:** I will be giving an overview of the paper. In particular, given a family of “diagonal-type” linear maps from the set of  $3 \times 3$  Hermitian matrices to the set of  $3 \times 3$  Hermitian matrices, we will prove necessary and sufficient conditions on a map to guarantee “positivity” and “complete positivity”.