

Departmental Colloquium

**Dr. Ion Nechita,
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**Friday, January 25th, 2013
1:00p.m., HH-3026**

*Positive and completely positive maps via free
additive powers of probability measures*

Abstract:

We give examples of maps between matrix algebras with different "degrees of positivity" using ideas from free probability. We discuss applications to entanglement detection in Quantum Information Theory.