

# Stephen Curran Talk

**Date: Wednesday, January 16, 2013**

**Time: 4:00 pm in MATH 350**

## **Quantum symmetries in free probability**

### **ABSTRACT**

Free probability was developed by D. Voiculescu in the 1980s, as a method for analyzing free products of operator algebras. This theory has led to many important results on the structure of von Neumann algebras. Since its inception, many interesting connections to areas such as combinatorics, random matrices and quantum information theory have been discovered. In this talk I will give a brief introduction to the subject, then discuss some recent connections with (compact) quantum groups.

*Refreshments will be available at 3:30pm in Math 350*