

# COLLOQUIUM

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## The Classification Problem for Operator Systems

The logo for Mathematics and Statistics features a large orange circle in the center. The words "Mathematics" and "Statistics" are written in bold black font, stacked vertically within the circle. The word "and" is positioned between them in a smaller font. The circle is set against a background of four blue squares, one in each corner, arranged in a 2x2 grid.

**Mathematics  
and  
Statistics**

Date: October 24

Time: 3:30 - 4:30 PM

Room: RIC 209

**Abstract:** The classification problem for separable operator systems is commonly believed to be intractable. In recent collaboration with S. Coskey, M. Kalantar, M. Kennedy, M. Lupini, and M. Sabok, we have shown that, on the other hand, the classification problem for finitely generated operator systems is smooth. After an introduction to operator systems and completely positive maps, I will discuss Borel complexity theory, I will tell you what “smooth” means, and I will present some concrete classification results.