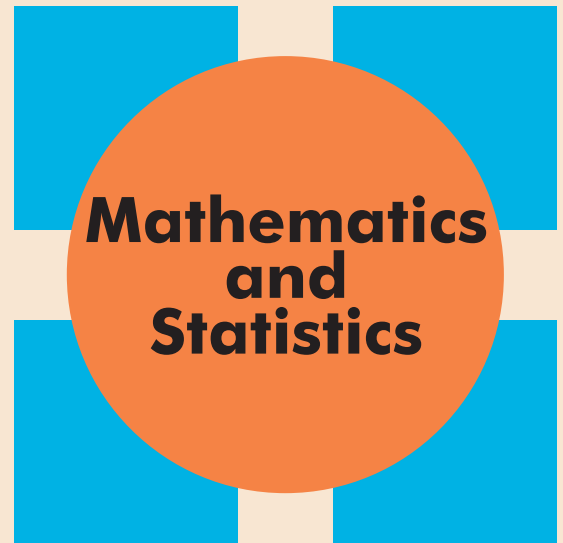


# COLLOQUIUM

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**Matrix convexity, spectra,  
and measures**



Date: Friday November 22, 2019

Time: 3:30 - 4:30 PM

Room: RI 208

**Abstract:** The view that complex matrices ought to be considered in tandem with complex numbers in mathematical theories involving complex numbers (such as convexity theory, spectral theory, and measure theory) has proven to be remarkably rich, touching profoundly, for example, upon functional analysis, real algebraic geometry, and noncommutative function theory. In this lecture, I will discuss this mathematical viewpoint and describe a few of the major theorems in this area. I will also mention some of my own contributions, drawing on collaborative works with Remus Floricel, Michael Kozdron, Sarah Plosker, Jerrod Smith, and Fei Zhou.