

Department of Mathematics

University of Houston

# Analysis Seminar

**FRIDAY May 3, 2019**

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**13:00-14:00 – Room 646 PGH**

**Speaker:** Zhenhua Wang (University of Houston)

**Title:**  $C^*$ -algebras of real rank zero

**Abstract:**  $C^*$ -algebras are often regarded as non-commutative topological spaces. It is natural to look for a variant of topological covering dimension which can be defined for  $C^*$ -algebras. The first generalization of dimension theory to  $C^*$ -algebras was the stable rank introduced by Rieffel. Inspired by Rieffel's notion, Brown and Pedersen introduced the concept of the real rank in 1991. In this talk, we will review some classic results on real rank zero. If time permits, we will discuss some generalizations.