Colloquium, Wilhelm Winter, University of Münster, Germany

Tuesday, Jan 26th 3:30 - 4:30pm

Title:

Nuclear C*-algebras: Structure and classification

Abstract:

The many facets of amenability for groups have as many reflections in the world of operator algebras.

In this talk I will focus on nuclearity of C*-algebras and discuss how structural properties of C*-algebras can be analysed in terms of finite dimensional approximations, and how such results can be used to classify simple nuclear C*-algebras by K-theory data.

I will use concrete examples to highlight how dynamic information and topological regularity enter the stage, how they may be employed, and how such data can be traced and recovered.