SCMS Seminar

DIMENSION, COMPARISON, AND ALMOST FINITENESS

Speaker: Prof. David Kerr Texas A&M University

Time: 3:00 - 4:00 pm, Wednesday, June 14, 2017

Venue: Room 2201, East Guanghua Tower (Main), Fudan University

Abstract: I will explain how one can develop a dynamical version of some of the theory surrounding the Toms-Winter conjecture for simple separable nuclear C*-algebras. In particular, I will introduce a notion of almost finiteness for group actions on compact spaces as an analogue of both hyperfiniteness in the measure-preserving setting and of $\lambda Z^{-stability}$ in the C*-algebra setting. This generalizes Matui's concept of the same name from the zero-dimensional context and is related todynamical comparison in the same way that $\lambda Z^{s-stability}$ is related to strict comparison in the Toms-Winter context. For free minimal actions of countably infinite groups on compact metrizable spaces the property of almost finiteness implies that the crossed product is $\lambda Z^{-stable}$, which leads to new examples of classifiable crossed $f(x,y)dx = \int y'dy' dx' = \int y$ products.

Shanghai Center for Mathematical Sciences 22F East Guanghua Tower, No.220 Handan Road, Shanghai, China Tel: 55665643 Fax: 65642190 Postcode: 200433 Email: scms@fudan.edu.cn