Department of Mathematics, BGU

Noncommutative Analysis

On *Monday, May ,23 2022*

At *11:00 – 12:00*

In *Building ,32 room 114*

Zhuang Niu (University of Wyoming)

will talk about

Structure of crossed product C^*-algebras

Abstract: Consider a dynamical system, and let us study the structure of the corresponding crossed product C^*-algebra, in particular on the classfiiability, comparison, and stable rank. More precisely, let us introduce a unfiorm Rokhlin property and a relative comparison property (these two properties hold for all free and minimal Z^d actions). With these two properties, the crossed product C^*-algebra is shown to always have stable rank one, to satisfy the Toms-Winter conjecture, and that the comparison radius is dominated by hafl of the mean dimension of the dynamical system.

Please Note the Unusual Place!