

Department of Mathematics, BGU

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# Operator Algebras and Operator Theory

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*On Wednesday, March ,8 2023*

*At 10:00 – 11:00*

*In Minus 101*

Shirly Geffen (Muenster)

will talk about

## **Simplicity of reduced crossed products**

Abstract: Results from a few years ago of Kennedy and Schafhauser attempt to characterize simplicity of noncommutative reduced crossed products, under an assumption which they call vanishing obstruction. However, this is a strong condition that often fails, even in cases of finite groups acting on finite dimensional *C*-algebras. *In this work, we give complete, two-way, C*-dynamical characterization, of when the crossed product is simple, in the setting of FC-hypercentral groups. This is a large class of amenable groups that, in the finitely-generated setting, is known to coincide with the set of groups with polynomial growth.

This is joint work in its early stages with Dan Ursu.

**Please Note the Unusual Day and Time!**