

Rokhlin Dimension and Nuclear Dimension

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Abstract

It is known that C^* -algebras can be viewed as generalized topological spaces via the spectral theory. Nuclear dimension is a dimension theory for C^* -algebras and was introduced by Wilhelm Winter in 2001 as a generalization of topological covering dimension for compact spaces. I plan to introduce nuclear dimension for someone who is unfamiliar with the tools of operator algebras and stress how it relates to topology. I also plan to talk about my current work in Rokhlin dimension of group actions and how it relates to regularity properties for crossed product C^* -algebras.