Colloquium Series

Trace Ideals and Endomorphism Rings

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Abstract: In many branches of mathematics, the full set of "functions" between two objects exhibits remarkable structure; it often forms a group and in some special cases it forms a ring. In this talk, we will discuss this phenomenon in Commutative Algebra. In particular, we will talk about the endomorphism ring formed by the homomorphisms from a module to itself by first looking at commuting square matrices. I'll also introduce the trace ideal and explain its role in the question "What properties of a module does its endomorphism ring detect?"

Keywords: Matrices, Groups, Rings, Trace ideals.

Wednesday, March 9, 1:05 – 1:50 pm

For more info visit the department website for the colloquium

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