



COLLOQUIUM

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4:00 p.m. - 5:00 p.m.

315 Armstrong Hall

An introduction to the Path Algebras

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Let k be a field and let Q be a quiver (i.e., Q is a directed graph where loops and multiple arrows between two vertices are allowed, namely a multidigraph).

The path algebra kQ of Q is a k -algebra whose basis is the set of paths in Q . Since any finite dimensional k -algebra is Morita equivalent to a factor algebra of some path algebra, it is very significant to investigate path algebras. In this talk, we will recall the definition and some properties of path algebras.

This talk will be accessible to graduate students.