

Department of Mathematical and Physical Sciences Presents

The 2008 Colloquium

Wednesday

Oct. 15, 5:00-6:00pm

Room 208, Lamar Bruni Vegara Science Center

Free and Open to Public

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Ordered Structures of Models of Logic

Abstract

A logic structure is such a set on which particular operations and relations are defined. A structure on which a set of mathematical sentences are true is called the model of the set.

An algebra for a logic is a set on which particular operations are defined. A-structure is a structure whose algebraic part is A on which Algebras are the generalization of objects such as groups and rings. In Model Theory, we explore these algebras and prove that general properties of concepts of an algebra. We define two types of order relations: substructure on structures and filtered substructure on A-structures. We explore these orders and proves that Characterization Theorems and Local Characterization Theorems in terms of lattices. As an application, we consider model-theoretic construction of ideals of rings in Abstract Algebras.

Refreshment Starts at 4:30pm

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