University of Notre Dame Department of Mathematics

LOGIC SEMINAR

Lynn Scow

University of Illinois at Chicago

Will give a lecture entitled:

Characterization of NIP theories by generalized indiscernible sequences

On

Thursday, April 28, 2011

At

2:00 PM

In

258 Hurley Hall

Abstract

Shelah's characterization of stable theories is well-known: a theory T is stable just in case every infinite indiscernible sequence in a model of T is an indiscernible set. We present a generalization of this characterization for NIP theories. In order to carry out the generalization we make use of ordered graph indiscernibles: a kind of generalized indiscernible sequence indexed by a linearly ordered graph.

We will define generalized indiscernible sequences, point out an important property that they may have, called the "modeling property", and sketch one direction of a proof for the characterization theorem.