

Speaker: **Sergei Starchenko**
 University of Notre Dame

Thursday, September 18, 2014
3:00 pm
Room: 125 Hayes-Healy Hall

Title: Ramsey-Type Theorems in Certain NIP Theories

Abstract:

In the paper “Crossing Patterns of Semi-algebraic Sets”, (2005), N.Alon, J.Pach, R.Pinchasi, R.Radoicic, and M.Sharir proved the following theorem.

Let $R(x, y)$ be a semi-akgebraic relation. Then there is a constant $e > 0$ such that for any finite sets A, B there finite subsets A', B' with $|A'| > e|A|, |B'| > e|B|$ and either $R(a, b)$ holds for all $a \in A', b \in B'$ or $R(a, b)$ fails for all $a \in A', b \in B'$.

In this talk we discuss a generalization of this theorem to certain NIP theories.

This is a joint work with A.Chernikov.