Department of Mathematics
University of Notre Dame

Sergei Starchenko - University of Notre Dame

MODEL THEORY SEMINAR

Guest Speaker: Sergei Starchenko
University of Notre Dame

Date: Tuesday, November 28, 2017
Time: 11:00 AM
Location: 125 Hayes-Healy Hall

Lecture Title:

On Elekes-Szabo Theorem for distal strongly minimal sets. (Joint with A.Chernikov)

Abstract

Let $V \subseteq \mathbb{C}^3$ be an algebraic surface. Elekes and Szabo proved that either for all finite $|A|, |B|, |C| \subseteq \mathbb{C}$ of size n the size of $V \cap A \times B \times C$ is sub-quadratic (in n), or V is related to the graph of multiplication in an algebraic group, In this talk we generalize Elekes–Szabo Theorem to strongly minimal sets definable in distal structures.