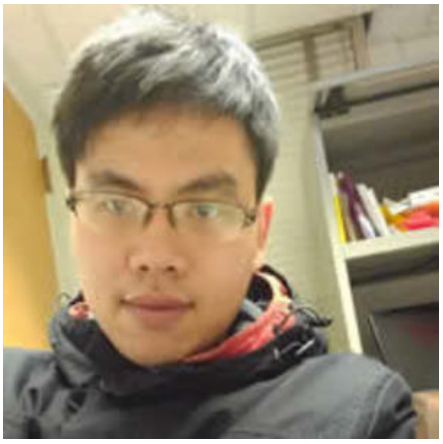
Department of Mathematics
University of Notre Dame

MODEL THEORY SEMINAR

Guest Speaker: Chieu-Minh Tran
University of Notre Dame



Date: Tuesday, March 15, 2022
Time: 10:30 AM
Location: 125 Hayes-Healy Hall
Zoom URL:

Lecture Title:

Complex Numbers with a Polynomial up to Interdefinability

Abstract

We classify up to interdefinability structures of the form $(\mathbb{C}; (c)_{c\in\mathbb{C}}, \Gamma_P)$ where $\mathbb{C}$ is the set of complex numbers, and $\Gamma_P \subseteq \mathbb{C}^{n+1}$ is the graph of a n-variable polynomial $P(x_1, ..., x_n) \in \mathbb{C}[x_1, ..., x_n]$. Our tools include the Restricted Trichotomy Theorem and the classification of symmetric nonexpanding pairs of polynomials over $\mathbb{C}$ from arithmetic combinatorics

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