Department of Mathematics
University of Notre Dame

Sergey Goncharov - Sobolev Institute

LOGIC SEMINAR

Guest Speaker: Sergey Goncharov
Sobolev Institute

Date: Tuesday, January 22, 2019
Time: 2:00 PM
Location: 125 Hayes-Healy Hall

Lecture Title:
The computability via definability and polynomial computability

Abstract

The computability on abstract models can be done on the base of definability via Δ_0- and Σ-formulas. We constructed the computability on the base definability over hereditary finite subsets superstructure over model $\mathfrak{M}$ or hereditary finite list-extension over model $\mathfrak{M}$ and in such way that it is possible to define computability over abstract models. We will consider different enrichments of our language for notion on terms and discuss the problem of complexity of definable functions. It is the base for constructing a logic programming language. We will construct extensions with different properties of computability.