

TOPICS IN PHILOSOPHY OF MATHEMATICS: CATEGORICITY

Iulian D. Toader

This is an advanced research seminar for graduate students and recent PhDs, focused on a single topic in foundational thinking about mathematics: *categoricity* as a property of formal systems of axioms. The goal of the seminar is to understand and evaluate some of the advantages and disadvantages of categorical systems. The schedule of meetings and list of readings are below. If interested, please contact me at itoad71@gmail.com.

Introduction

10.03.2016 Button, T., S. Walsh 2016 "Structure and Categoricity"

First Part

17.03.2016 Corcoran, J. 1980 "Categoricity"

24.03.2016 Read, S. 1997 "Completeness and Categoricity: Frege, Gödel and model theory"

31.03.2016 Halbach, V., L. Horsten 2005 "Computational Structuralism"

07.04.2016 Meadows, T. 2013 "What can a categoricity theorem tell us?"

Second Part

12.05.2016 McGee, V. 1997 "How We Learn Mathematical Language"

19.05.2016 Field, H. 1998 "Which Undecidable Mathematical Sentences Have Determinate Truth Values?"

26.05.2016 Martin, D. A. 2001 "Multiple Universes of Sets and Indeterminate Truth Value"

02.06.2016 Pollard, S. 2005 "Mathematical Determinacy and the Transferability of Aboutness"