



Speaker: Philipp Hieronymi
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Thursday, November 7, 2013
2:00 PM
125 Hayes-Healy Hall

Title: Büchi, Cantor and Diophantus of Alexandria

Abstract:

I will give a progress report on the following two problems I have been working on for a while now:

- 1) finding a Cantor set C such that the expansion of the real field by C is model theoretically tame,
- 2) understanding the expansion of the ordered additive group of real numbers by two predicates, one for Z and one for aZ , where Z is the set of integers and a is an irrational number.

In particular, their connection to Büchi's theorem on the monadic second order theory of one successor will be discussed.