



Speaker: Daniel Palacin
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Tuesday, September 8, 2015

2:00 PM

125 Hayes-Healy Hall

Title: Superstable expansions of $(\mathbb{Z}, +)$

Abstract:

Given a first-order structure it is natural to ask whether some of its model-theoretic properties are preserved after enriching the structure with additional predicates. In this talk, after giving some basic definitions on stability theory, I shall discuss whether or not the additive group of integers, which is a stable structure and whose first-order theory is well-understood, admits a stable expansion. More precisely, I will present some superstable expansions of infinite rank, and argue why there is no expansion of finite rank. This is a joint work with Ricos Sklinos.