Mathematics, Statistics, and Computer Science   **@ UIC**

Logic Seminar

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

Daniel Palacín (University of Münster)

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 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 Rizos Sklinos.

Tuesday, September 15 at 4:00 PM in SEO 427