



Speaker: Vincent Guingona
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Thursday, October 10, 2013
2:00 PM
125 Hayes-Healy Hall

Title: On VC-minimal theories

Abstract:

VC-minimal theories include both strongly minimal theories and o-minimal theories, as well as the theory of algebraically closed valued fields. In this talk, I give an overview of recent developments on VC-minimal theories. I discuss classifying VC-minimal algebraic theories, displaying the results of J. Flenner and myself stating that a VC-minimal ordered group is abelian and divisible. Moreover, I show that VC-minimal ordered fields are real closed while VC-minimal stable fields are algebraically closed. Finally, I discuss the question of computing VC-density in VC-minimal theories, showing that formulas in two-variables have VC-density at most two.