

MATHEMATICS DEPARTMENT GRADUATE SEMINAR
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Keith Fox

Title: An Introduction to Small Cardinals, and Martin's Axiom

Abstract: Small cardinals are cardinals that can be shown to be uncountable in ZFC and whose relative size with regard to the continuum and each other depends on the model of ZFC being worked in. Martin's Axiom (MA) is a formula consistent with both ZFC+CH and ZFC+not(CH) and has consequences on small cardinals. In my talk I plan to define some small cardinals, illustrate their relative size, show some consequences of (MA) and state some open problems.