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

Logic Seminar

Constructing iteration strategies for background certified extender models in the presence of Woodin cardinals

Martin Zeman (University of California Irvine)

Abstract: It is a well-known fact that that if a background certified extender model has a Woodin cardinal then it may not have an iteration strategy. The question whether such an iteration strategy exists turns out to depend on the universe in which such a model is constructed. We give an example of such a universe (another example was obtained by Woodin some time ago), and describe an iteration strategy for the background certified model K$\widehat{}$c constructed in this universe. In this situation the model K$\widehat{}$c may contain many Woodin cardinals, but needs to be tame. Generalizations for the non-tame case are being considered, but have not been fully worked out. This is a joint work with Grigor Sargsyan.

Tuesday, April 10 at 3:30 PM in SEO 427