

**Speaker:** **Julia Bergner**  
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Thursday, November 11, 2010  
3:00 pm  
258 Hurley Hall

**Title:** Homotopy-theoretic Approaches to Higher Categories

**Abstract:**

Several models for  $(\infty, 1)$ -categories have been defined and shown to be equivalent, and they are all being used in different areas of algebra and topology. More recently, there has been interest in more general  $(\infty, n)$ -categories, especially with Lurie's recent work on the Cobordism Hypothesis. Comparison of different definitions is still work in progress by several authors. In this talk, we will go over some of the models for  $(\infty, 1)$ -categories and discuss some of the methods for inductively generalizing them to models for  $(\infty, n)$ -categories.