



UNIVERSITY OF CALIFORNIA RIVERSIDE

DEPARTMENT OF MATHEMATICS

Colloquium

Dr. Julie Bergner
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“Homotopy theory and higher categories”

Abstract:

A recent trend in homotopy theory is to consider homotopical categories themselves as objects of study. Such structures can arise as model categories, or more general categories with weak equivalences, or alternatively as categories up to homotopy, often called $(\infty, 1)$ -categories. There are many different models for these structures, but their respective model categories are all known to be equivalent. A more difficult problem is generalizing these models to homotopical versions of higher categories, or (∞, n) -categories. In this talk we consider the known models for these structures and the comparisons between them.

Wednesday, October 30th, 2013

Surge 284

Tea Time: 3:40 p.m. / Talk: 4:10 – 5:00 p.m.