



UNIVERSITY OF CALIFORNIA RIVERSIDE

DEPARTMENT OF MATHEMATICS

COLLOQUIUM

Simon Willerton
(University of Sheffield)

"Measuring the Magnitude of Metric Spaces"

Abstract:

Tom Leinster defined the notion of the 'magnitude' of a finite metric space, which be thought of as something like the 'effective number of points' in the metric space. Leinster and I extended the notion to infinite metric spaces such as subsets of Euclidean spaces (like line segments, circles, Cantor sets_ --- and Riemannian manifolds (like surfaces and n-spheres). I will try to give you some idea what this has to do with ecological biodiversity measures, geometric measure theory, category theory and penguins.

Wednesday, April 7th, 2010

Surge 284

4:10-5:00pm

Tea Time at 3:40pm