



The Math Colloquium
Department of Mathematics
San José State University



Diane Maclagan

University of Warwick (UK) and MSRI

Tropical Geometry

MARCH 18, 2009, MH320

Abstract: Tropical mathematics is mathematics with the real numbers replaced by the min-plus algebra: $x \oplus y = \min(x, y)$, $x \odot y = x + y$. This has arisen in many fields over the past decades, including computer science, control theory, and algebraic geometry. I will focus on the algebraic geometry picture, where tropical geometry allows us to study varieties through polyhedral combinatorics.

Background: Comfort with linear algebra and polynomials in several variables.

About the speaker: Diane Maclagan received her PhD from UC Berkeley, and is currently an Associate Professor at the University of Warwick (UK). Her research is on the combinatorial and computational side of algebraic geometry.

SNACKS IN MH331B AT 2:30 PM
TALK STARTS AT 3 PM

For more information, see our full schedule at:

<http://www.math.sjsu.edu/~hsu/colloq/>