# Mathematical Sciences Colloquium

# Adam Layne

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## Tuesday, February 15, 3:30 p.m.

### J.R. Howard Hall, Room 254

# An Introduction to
# Curve Shortening Flow

The curve shortening flow is a partial differential equation which shortens the length of curves according to their curvature. There are many results concerning what happens to closed curves in the Euclidean plane under this flow; much less is know about curves with fixed endpoints.

In this talk Adam Layne (LC '10) will give an introduction to the curve shortening flow. He will then present some results from summer research project completed in collaboration with Katherine Tsukahara (LC '10) and Paul T. Allen.

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