DIFFERENTIAL GEOMETRY/PDE

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Padelford C-36
4–5PM

Legendrian Curve Shortening Flow in R^3

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In this talk, we will discuss a curve shortening flow for Legendrian curves in R^3 and its connection to the curve shortening flow of figure-eight curves in the plane. Under some symmetry and curvature assumptions on the initial curve, we will show a figure-eight shrinks to a point at the first singular time. This is a joint work with Weiyong He and Micah Warren.