Legendrian Curve Shortening Flow in $\mathbb{R}^3$

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In this talk, we will discuss a curve shortening flow for Legendrian curves in $\mathbb{R}^3$ 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.