

Translators in Lagrangian mean curvature flow

Jason Lotay

Oxford

Lagrangian mean curvature flow is potentially a powerful tool in solving problems in symplectic topology. One of the key challenges is the understanding of formation of singularities, which is conjectured to have links to J-holomorphic curves, stability conditions and the Fukaya category. Unlike the usual mean curvature flow for hypersurfaces, here one is expected to have to tackle singularities modelled on translating solutions to the flow. I will describe joint work with Felix Schulze and Gabor Szekelyhidi which allows one to recognize a singularity model in Lagrangian mean curvature flow as a translator - this is the first such result in any form of mean curvature flow beyond curves.