

**ON ILMANEN'S MULTIPLICITY-ONE CONJECTURE
FOR MEAN CURVATURE FLOW**

Speaker: Haozhao Li

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Time: Thursday, Dec.12th, 10:00-12:00

Venue: Room 102, Shanghai Center for Mathematical Sciences

Abstract: In this talk, we show that if the mean curvature of a closed smooth embedded mean curvature flow in \mathbb{R}^3 is of type-I, then the rescaled flow at the first finite singular time converges smoothly to a self-shrinker flow with multiplicity one. This result confirms Ilmanen's multiplicity-one conjecture under the assumption that the mean curvature is of type-I. As a corollary, we show that the mean curvature at the first singular time of a closed smooth embedded mean curvature flow in \mathbb{R}^3 is at least of type-I. This is joint work with Bing Wang.