

Legendrian mean curvature flow in η -Einstein Sasakian manifolds

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摘要: Recently, there are a great deal of work done which connects the Legendrian isotopic problem with contact invariants. The isotopic problem of Legendre curve in a contact 3-manifold was studied via the Legendrian curve shortening flow which was introduced and studied by K. Smoczyk. On the other hand, in the SYZ Conjecture, one can model a special Lagrangian singularity locally as the special Lagrangian cones in C^3 . This can be characterized by its link which is a minimal Legendrian surface in the 5-sphere. Then in these points of view, in this paper we will focus on the existence of the long-time solution and asymptotic convergence along the Legendrian mean curvature flow in higher dimensional η -Einstein Sasakian $(2n + 1)$ -manifolds under the suitable stability condition due to the Thomas-Yau conjecture. This is a joint work with Shu-Cheng Chang and Chin-Tung Wu.

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