SHRINKING SELF-SIMILAR SOLUTIONS TO CURVATURE FLOWS

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Abstract: In this talk, we consider self-similar solutions to curvature flows. Curvature flow is a 1-parameter family of hypersurfaces which evolves by a function of principal curvatures. A solution to a curvature flow is called self-similar if it is invariant under a 1-parameter family of local symmetries generated by reparametrization, space translation, time translation, rotation, and space-time dilation. Self-similar solutions play an important role in the study of asymptotic behaviors of mean curvature flow and α-Gauss curvature flow. We will present some recent results on the uniqueness of shrinking self-similar solutions which are from a joint work with Haizhong Li and Xianfeng Wang.