

Closed self-similar solutions to flows by powers of curvature

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Abstract: Closed self-similar solutions to flows are closed hypersurfaces shrink self-similarly under curvature flows. We consider the cases whose speed functions are given by powers of 1-homogeneous functions of principal curvatures with certain properties. We will discuss the uniqueness of these self-similar solutions under several conditions.

嘉宾介绍: 高山泽, 陕西师范大学讲师, 2019年1月博士毕业于清华大学, 2019年3月-2021年4月期间在中国科学技术大学做博士后工作。主要研究方向为微分几何, 特别是超曲面的完全非线性曲率流的自相似解的唯一性和相关超曲面的刚性问题。在J. Reine Angew. Math. (Crelle's Journal), Differential Geom. Appl., NoDEA Nonlinear Differential Equations Appl.等学术期刊上发表论文多篇。

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