

Long-time behavior of discrete volume-preserving mean curvature flat flows

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Abstract

We consider the Almgren-Taylor-Wang implicit time-discretization scheme for the volume-preserving mean curvature flow in \mathbb{R}^N and study its long-time behavior for arbitrary bounded initial sets of finite perimeter. Open problems and generalization will be discussed. This work is in collaboration with M. Ponsiglione and E. Spadaro.