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Academy of Mathematics and Systems Science, CAS
Colloquia & Seminars

Speaker: 张瑞珈, 清华大学

Inviter: 邱国寰

Title: Volume preserving Gauss curvature flow of convex hypersurfaces in the hyperbolic space

Time & Venue: 2022.11.10 14:00-15:00 思源楼S817

Abstract: In this talk, we discuss Y. Wei, B. Yang and T. Zhou's preprint arXiv:2210.06035, in which they consider volume preserving curvature flows of smooth, closed and convex hypersurfaces in hyperbolic space with the speed given by arbitrary positive power of the Gauss curvature and prove that the solution of the flow remains convex, exists for all positive time and converges to a geodesic sphere exponentially. This can be viewed as the first result for non-local type volume preserving curvature flows for hypersurfaces in the hyperbolic space with only convexity required on the initial data.

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