CURVE SHORTENING FLOW ON RIEMANN SURFACES WITH POSSIBLE AMBIENT CONIC SINGULARITIES

Speaker: Biao Ma

University: University of Iowa

Time： Thu, Jun. 4th, 10:00-11:00 am

Venue: Shanghai Center for Mathematical Sciences

Abstract: We study the curve shortening flow (CSF) on Riemann surfaces. We generalize Huisken's comparison function to Riemann surfaces and surfaces with conic singularities. As an application, we prove that for embedded simple closed curves, CSF cannot touch conic singularities with cone angles smaller than π.

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