Institut für Geometrie und Topologie

Sommersemester 2025

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Lojasiewicz inequalities for the Dirichlet energy of maps in the critical dimension

8. Juli 2025– 16:15 Uhr Raum 7.530

Abstract: I will discuss a general Lojasiewicz inequality for selfmaps of the 2-sphere that I proved in 2023 as well as a Gaussian-weighted version that appeared this year. These lead respectively to a unique convergence theorem for harmonic map flow between 2-spheres and to a proof of continuity of the body map and no necks at finite-time singularities. The latter is the fundamental case of a conjecture of Topping.



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