



Kolloquium über Reine Mathematik

Einladung zu einem Vortrag

Dienstag, 24. November 2015

17 Uhr s.t., Geom H4

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(Universität Hamburg)

Stability and instability of Ricci solitons

Abstract:

We give conditions under which a compact shrinking Ricci soliton is dynamically stable under the volume-normalized Ricci-flow. The conditions are given in terms of Perelman's shrinker entropy: A compact shrinking Ricci soliton is dynamically stable if it is a local maximum of the shrinker entropy and dynamically unstable otherwise. In the Einstein case, we give further characterizations of stability and instability in terms of the conformal Yamabe invariant and the Laplacian spectrum.

Vor dem Vortrag (ab 16.30 Uhr) stehen im Raum 327 Kaffee und Tee bereit.