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RTG Kolloquium

"On the local systolic optimality of Zoll contact forms"

Jun. Prof. Gabriele Benedetti

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Abstract: The classical systolic inequality on a closed Riemannian manifold bounds the length of the shortest closed geodesic in terms of the total volume of the manifold. Since geodesic flows are examples of Reeb flows on contact manifolds, Álvarez-Paiva and Balacheff asked in 2014 if a contact systolic holds in this wider context. While this generalized inequality is now known to fail at a global level, we prove a sharp local version of it when the Reeb flow is close to yield a free circle action of the manifold. This is joint work with Alberto Abbondandolo.

Dienstag, den 07. Januar 2020 um 13.30 Uhr, Konferenzraum 5.104,
5.OG, INF 205