Oberseminar Analysis/Geometrie/Topologie

Splitting Principles in Scalar Curvature

Joachim Lohkamp

(Münster)

Abstract:

We indicate the proof of the following type of results based on hyperbolic unfoldings: Let (M^{n+1},g), n>2, be a smooth, compact Riemannian manifold with positive scalar curvature and α in H_n(M; Z). Then, there is a **smooth** compact hypersurface H^n\subset M^{n+1} that represents α and admits a **smooth** positive scalar curvature metric.

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