Sommersemester 2021

Oberseminar
Geometrische Analysis, Differentialgeometrie und Relativitätstheorie

Am Donnerstag, den **10.06.2021** spricht um **14:00** per Videoübertragung

Dr. Raquel Perales
(National Autonomous University of Mexico)

über das Thema

Intrinsic flat stability of the positive mass theorem for asymptotically hyperbolic graphical manifolds

The rigidity of the Riemannian positive mass theorem for asymptotically hyperbolic manifolds states that the total mass of such a manifold is zero if and only if the manifold is isometric to the hyperbolic space. This leads us to ask us if an asymptotically hyperbolic manifold that has total mass almost zero whether or not it is close in some sense to the hyperbolic space. Motivated by the positive answer provided by Huang-Lee-Sormani and Huang-Lee-Perales for asymptotically flat graphical manifolds by using the intrinsic flat distance, in an ongoing project with A. Cabrera Pacheco, we show the intrinsic flat stability of the positive mass theorem for asymptotically hyperbolic graphical manifolds.

Hierzu wird herzlich eingeladen. Bei Interesse bitte per E-Mail an angelika.spoerer-schmidle@uni-tuebingen.de wenden, um den Link zur Videoübertragung zu erhalten.

Hierzu wird herzlich eingeladen.

C. Cederbaum, G. Huisken, K. Kröncke