EBERHARD KARLS
UNIVERSITÄT
TÜBINGEN

Mathematisch-
Naturwissenschaftliche
Fakultät

Fachbereich Mathematik

AB Geometrische Analysis,
Differentialgeometrie und
Relativitätstheorie

Sommersemester 2021

Oberseminar
Geometrische Analysis, Differentialgeometrie und Relativitätstheorie

Am Donnerstag, den **22.04.2021** spricht um **14:00** per Videoübertragung

Dr. Thomas Körber
(Universität Wien)

über das Thema

Large area-constrained Willmore surfaces in asymptotically Schwarzschild 3-manifolds

In this talk, I will present recent work (joint with M. Eichmair) on large area-constrained Willmore surfaces in asymptotically Schwarzschild 3-manifolds. Using the method of Lyapunov-Schmidt reduction, we prove that the end of such a manifold is foliated by distinguished area-constrained Willmore spheres. The leaves are the unique area-constrained Willmore spheres with large area, non-negative Hawking mass, and distance to the center of the manifold at least a small multiple of the area radius. I will also discuss recent results on the geometric center of mass of this foliation.

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