



Oberseminar

Geometrische Analysis, Differentialgeometrie und Relativitätstheorie

Am Donnerstag, den **19.12.2024** spricht um **14 Uhr s.t.** im Raum **S9 (C6H05)** und über Zoom

Prof. Dr. Luciano Mari
(Università degli Studi di Milano)

über das Thema

Prescribing the Lorentzian mean curvature of a spacelike hypersurface, and the Born-Infeld model

The talk aims to introduce the reader to the existence and regularity problem for spacelike hypersurfaces in Lorentz-Minkowski space whose mean curvature is a prescribed measure. The class includes, for instance, maximal surfaces with point singularities. Motivation comes from General Relativity and from the electrostatic Born-Infeld theory, according to which the graph function represents the electric potential and its mean curvature the given charge distribution. Various open problems will be discussed. The talk is based on joint works with J. Byeon, N. Ikoma, A. Malchiodi and L. Maniscalco.

Den Zoom-Link erhalten Sie per E-Mail von Martina Neu.

For participating online, please sign up by sending an email to Martina Neu.

Hierzu wird herzlich eingeladen.

Rodrigo Avalos, Carla Cederbaum, Gerhard Huisken, zusammen mit Jan Metzger (Potsdam)