Wintersemester 2018/19

**Oberseminar
Geometrische Analysis, Differentialgeometrie und Relativitätstheorie**

Am Donnerstag, den **24.01.2019** spricht um **14 Uhr c. t.** im Raum 7 E 02 (Hörsaalzentrum)

Dr. Christos Mantoulidis
(MIT)

über das Thema

Capacity, fill-ins, and quasi-local mass

We derive new inequalities between the boundary capacity of an asymptotically flat 3-manifold with nonnegative scalar curvature and boundary quantities that relate to quasi-local mass; one relates to Brown-York mass and the other is new. Among other things, our work yields new variational characterizations of Riemannian Schwarzschild manifolds and new comparison results for surfaces in them.

This is joint work with P. Miao and L.-F. Tam.

Hierzu wird herzlich eingeladen.

C. Cederbaum, G. Huisken