



**Oberseminar**  
**Geometrische Analysis, Differentialgeometrie und Relativitätstheorie**

Am Donnerstag, den **13.11.2025** spricht um **14 Uhr s.t.** im Raum **C4H33** und über **Zoom**

**Dr. Jacopo Tenan**  
(Università degli Studi di Roma Tor Vergata)

über das Thema

**Volume preserving mean curvature flow in asymptotically flat spaces**

In this talk, I will discuss relations between curvature flows and foliations of asymptotically flat manifolds. Firstly, I will extend to the asymptotically flat setting a classical result by Huisken-Yau which allows one to construct a constant mean curvature foliation of the outer part of the manifold by an alternative approach to those by Nerz and Eichmair-Koerber. This is a joint work with C. Sinestrari. Secondly, I will provide an alternative construction of the constant spacetime-mean curvature foliation of an initial data set by Cederbaum-Sakovich by introducing a (volume preserving) fully nonlinear mean curvature flow whose speed takes into account the non-time-symmetric nature of the ambient.

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)