



**Oberseminar
Geometrische Analysis, Differentialgeometrie und Relativitätstheorie**

Am Donnerstag, den **15.01.2026** spricht um **14 Uhr s.t.** im Raum **C4H33** und **über Zoom**

Ariadna León Quiros

(Universität Tübingen)

über das Thema

Vector field approach to proving the Riemannian Positive Mass Theorem

In 1977, D. C. Robinson developed a method for proving static vacuum Black Hole uniqueness in General Relativity. This method has recently been generalized to higher dimensions by C. Cederbaum, A. Cogo, B. Leandro, and J. Paolo dos Santos. It turns out that the same philosophy can prove several geometric inequalities.

In my talk, I will show how to adjust this approach to prove the Riemannian Positive Mass Theorem. If time permits, I will discuss other related results. This is joint work with C. Cederbaum and B. Meco.

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)