



Oberseminar

Geometrische Analysis, Differentialgeometrie und Relativitätstheorie

Am Donnerstag, den **25.04.2024** spricht um **14 Uhr s.t.** im Raum **S9 (C6H05)** und über Zoom

Gemma Hood

(Imperial College London)

über das Thema

A scattering construction for nonlinear wave equations on Kerr-Anti de Sitter spacetimes

Given the sharp logarithmic decay of linear waves on the Kerr-AdS black hole (Holzegel, Smulevici '13), it is expected that the Kerr-AdS spacetime is unstable as a solution of the Einstein vacuum equations. However, the scattering construction presented here for exponentially decaying nonlinear waves on a fixed Kerr-AdS background serves as a first step to confronting the scattering problem for the full Einstein system. In this context, one may hope to derive a class of perturbations of Kerr-AdS which remain 'close' and dissipate sufficiently fast.

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

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

Hierzu wird herzlich eingeladen.

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