Sommersemester 2016

**Oberseminar
Geometrische Analysis, Differentialgeometrie und Relativitätstheorie**

Am Donnerstag, den **23.06.2016** spricht um **14 Uhr c. t.** im Raum N14

Dr. Ellery Ames
(Chalmers University of Technology)

über das Thema

Existence of AVTD Solutions to the Einstein Equations in Wave Gauges by Non-Analytic Fuchsian Methods

An asymptotically velocity term dominated (AVTD) solution of the Einstein equations is a non-oscillatory singular solution which at each spatial point asymptotically approaches a Kasner solution near the singularity. The identification of AVTD behavior in symmetry-defined classes of spacetimes has been useful in probing the question of strong cosmic censorship in general relativity. Existence of families of AVTD solutions can be naturally proved as an application of Fuchsian methods for PDE. In this talk I present a class of AVTD solutions with Gowdy symmetry in wave gauges, and also discuss the Fuchsian theorem in the smooth category on which the existence of such solutions based.

Hierzu wird herzlich eingeladen.

C. Cederbaum, G. Huisken