

EINLADUNG

Literaturseminar

zum Vortrag

von

Joseph Keir

(Oxford, UK)

über

"Nonlinear wave equations and the weak null condition"

Abstract:

The vacuum Einstein equations, written in "harmonic" or "wave coordinates", are a system of nonlinear wave equations. Interestingly, very similar equations exhibit finite-time blowup, while the Einstein equations themselves admit global solutions for small initial data. The extra structure which enables them to avoid blowup is called the "weak null structure". In this talk I will explore this structure, giving a general definition and then some subclasses for which we can prove global existence for small initial data. I will also give some details of the proof of global existence for solutions to these classes of equations.

Zeit: Donnerstag, 21.11.2019, 14.00

Ort: Arbeitsgruppe Gravitation, Währinger Straße 17, Seminarraum 218, 2. Stock

gez.: P. T. Chruściel, D. Fajman