TECHNISCHE UNIVERSITÄT WIEN
Vienna University of Technology

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E I N L A D U N G

im Rahmen des Seminars in Geometric Analysis and Physics

(GAP Seminar)

zum Vortrag

von

Albert Huber

(Technische Universität Wien)

über

„Null foliations of spacetime and the geometry of black hole horizons“

Abstract: In this talk, I will discuss some basic aspects and issues of the problem of how to construct a null foliation of spacetime. To this end, I give an overview of previously existing, but somehow opposing approaches toward the subject and present a novel construction idea, which in the end relates these considered approaches under quite natural circumstances. Thereupon, I present a few specific applications of the model and discuss its usefulness for calculating the gravitational field of a ultrarelativistic point-particle in a stationary black hole background and, at the same time, its relevance for the so-called isolated horizon formalism of Ashtekar et al. and the problem of characterizing the intrinsic geometry of a black hole horizon.

Zeit: Donnerstag, 26.11.2015, 11:00

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

gez.: M. Bauer (Fak. Math, T.U.)
V. Branding (Fak. Math, T.U.)
D. Fajman (Fak. Phys, U.V.)
J. Joudioux (Fak. Phys, U.V.)
B. Schörkhuber (Fak. Math, V.U.)