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

Anna Sakovich

(Fakultät für Mathematik, Universität Wien.)

über

„On the notion of center of mass in general relativity“

Abstract: While the definition of center of mass via the mass density is straightforward in Newton's theory of gravity, the situation in general relativity is more complicated. In the first part of the talk we will discuss two approaches which can be pursued in the case of isolated systems modeled by asymptotically Euclidean time-slices of asymptotically Minkowski spacetimes. The first definition is derived from the Hamiltonian formalism, while the second definition is purely geometric. In the second part of the talk we will discuss how these two approaches extend to the case of asymptotically hyperbolic time-slices of asymptotically anti-de Sitter spacetimes.

Zeit: Donnerstag, 14.01.2016, 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.)