



Sommersemester 2016

Oberseminar
Geometrische Analysis, Differentialgeometrie und Relativitätstheorie

Am Donnerstag, den 21.04.2016 spricht um 14 Uhr c. t. im Raum N14

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über das Thema

Optimal transport for Lorentz-Finsler cost functions

The problem of optimal transportation for relativistic cost functions has been introduced by Brenier and studied by Bertrand & Puel. In loose geometric terms the set of relativistic cost functions describes the case of Minkowski space, i.e. constant cone fields. Besides the recent work of Eckstein & Miller the possibility of a general Lorentzian theory of transportation has not been addressed. In this talk I will present a formulation of the problem for Lorentz-Finsler metrics. I will explain a criterion for the existence of ‘causal’ couplings and show existence of solutions to the Kantorovich and Monge problem. If time permits I will address the regularity question of optimal couplings.

Hierzu wird herzlich eingeladen.

C. Cederbaum, G. Huisken