



Sommersemester 2017

Oberseminar
Geometrische Analysis, Differentialgeometrie und Relativitätstheorie

Am Freitag, den 20.10.2017 spricht um 14 Uhr c. t. im Raum S9

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über das Thema

Binary black hole initial data with a Schwarzschild completion at space-like infinity

Corvino (2000) showed that any given asymptotically flat and conformally flat initial data set can be truncated and glued along an annulus to a Schwarzschild metric in the exterior. It will be shown that this powerful result can be implemented numerically in an axisymmetric setting. Specifically, a Schwarzschild end will be glued to Brill-Lindquist data describing two non-rotating black holes. The total ADM mass of the resulting space-time will be computed and its dependence on the details of the gluing construction will be thorough investigated.

Hierzu wird herzlich eingeladen.

C. Cederbaum, G. Huisken