



Oberseminar
Geometrische Analysis, Differentialgeometrie und Relativitätstheorie

Am Donnerstag, den **29.06.2017** spricht um **14 Uhr c.t.** im Raum **S9**

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über das Thema

The Fingerprints of Black Holes - Shadows and their Degeneracies

First I will introduce the concept of the shadow of a black hole and what it means for the shadows of two observers to be degenerate. I will then present preliminary results showing that no continuous degenerations exist between the shadows of observers at any point in the DOC of any Kerr-Newman-(anti)- De-Sitter black hole spacetime of unit mass. Therefore an observer can, by measuring the black holes shadow, in principle determine the angular momentum, the charge and the cosmological constant of the black hole under observation, as well as his radial distance from the black hole and his angle of elevation above the equatorial plane.

Hierzu wird herzlich eingeladen.

C. Cederbaum, G. Huisken