

GR 6: Hauptvorträge Schwarze Löcher I

Zeit: Dienstag 14:00–15:30

Raum: ZHG 002

Hauptvortrag GR 6.1 Di 14:00 ZHG 002
Constructive proof of the Kerr-Newman black hole uniqueness — ●REINHARD MEINEL — Theoretisch-Physikalisches Institut der Universität Jena

A new proof of the uniqueness of the Kerr-Newman black hole solutions amongst asymptotically flat, stationary and axisymmetric electrovacuum spacetimes surrounding a connected Killing horizon is given by means of an explicit construction of the corresponding complex Ernst potentials on the axis of symmetry. This construction, which makes use of the inverse scattering method, also works in the case of a degenerate

horizon.

Reference: arXiv:1108.4854

Hauptvortrag GR 6.2 Di 14:45 ZHG 002
Black Holes in Gauge/Gravity Correspondence — ●VERONIKA HUBENY — Durham University, Durham, UK

I will give a brief overview of the role of black holes in the gauge/gravity correspondence, focusing on the gravitational highlights and understanding achieved to date.