E I N L A D U N G

im Rahmen Literaturseminars

zum Vortrag

von

James Lucietti

(Edinburgh)

über

„Rigidity of extremal horizons and black hole uniqueness"

Abstract:

I will present a recent proof which shows that the intrinsic geometry of compact cross-sections of any vacuum extremal horizon, possibly with a cosmological constant, must admit a Killing vector field.
In particular, this implies that the extremal Kerr horizon is the most general such horizon in four-dimensional General Relativity and completes the classification of the associated near-horizon geometries.
I will also discuss a recent uniqueness proof which shows that any analytic Einstein spacetime, that contains a static extremal horizon with a maximally symmetric compact cross-section, is the extremal Schwarzschild de Sitter spacetime or its near-horizon geometry.

Ort: Seminarraum A, Währinger Straße 17, 2. Stock
Zeit: Mittwoch, **22.11.2023**, **14.15 h** - Seminarraum A, Währinger Straße 17,
2. Stock

https://univienna.zoom.us/j/6540036841?pwd=SytyVkZJZzNyRG9lMm13ejlHeHRRUT09

gez.: P. Chrusciel, D. Fajman