



# EINLADUNG

im Rahmen des Literaturseminars

zum Vortrag von

**Marc Mars**

(University of Salamanca)

über

**“On staticity of bifurcate Killing horizons”**

## **Abstract:**

In this talk I will study the necessary and sufficient conditions that a spacetime admitting a bifurcate Killing horizon must satisfy to be static, i.e. such that the Killing of the horizon is hypersurface orthogonal. The result involves a bulk condition on the Ricci curvature, which is automatically satisfied for  $\Lambda$ -vacuum spacetimes, and a boundary condition on the data at the bifurcation surface.

The problem is solved in arbitrary dimension, and requires a different treatment in the region where the Killing is timelike (the exterior of the horizon) or spacelike (inside the horizon). This is joint work with Piotr T. Chrusciel.

---

**Zeit: Mittwoch, 13.3.2024, 14:15h**

**Ort: Seminarraum A, Währinger Straße 17, 2. Stock**

<https://univieenna.zoom.us/j/6540036841?pwd=SytyVkJZzNyRG9IMm13ejlHeHRRUT09>

gez.: P. Chrusciel, D. Fajman