



# EINLADUNG

im Rahmen des Literaturseminars

zum Vortrag von

**Arthur TOUATI**  
(IHES)

über

***“Initial data for stability theorems in general relativity“***

**Abstract:**

In this talk I will present two recent results on the construction of initial data solving the constraint equations and which suits the decay requirements of either Minkowski stability or Kerr stability. The Minkowski result is the most technical since KIDS are handled by Kerr asymptotics, the control of which requires some work. The Kerr result benefits from the presence of the event horizon and the freedom in choosing the boundary condition for the conformal method. In particular, we are able to completely avoid the KIDS. This is joint work with Allen Juntao Fang and Jérémie Szeftel.

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**Zeit: Mittwoch, 15.5.2024, 14:15h**

**Ort: ESI, Boltzmannngasse 9A, main lecture hall**

<https://univienne.zoom.us/j/6540036841?pwd=SytyVkZJZzNyRG9IMm13ejlHeHRRUT09>

gez.: P. Chrusciel, D. Fajman