



EINLADUNG

im Rahmen Literaturseminars

zum Vortrag

von

Wan Cong

(University of Vienna)

über

„On characteristic gluing“

Abstract:

In a series of work, Aretakis, Czimek, and Rodnianski have studied the gluing of two sets of initial data to the Einstein equations along a null surface. By solving the linearized gluing problem around Minkowski and using the implicit function theorem, they have shown that two sets of C^2 “sphere data” sufficiently close to Minkowski can be glued together along a null surface up to a ten dimensional obstruction space. In this talk, I will present a generalisation of this result to (i) higher dimensions, (ii) include the cosmological constant and (iii) the gluing of higher regularity C^k data. ^[1]Based on joint work with Piotr Chrusciel and Finnian Gray [arXiv:2401.04442 \[gr-qc\]](https://arxiv.org/abs/2401.04442)

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

Zeit: Mittwoch, 24.1.2024, 14.15h

<https://univienne.zoom.us/j/6540036841?pwd=SytyVkZJZzNyRG9lMm13ejlHeHRRUT09>

gez.: P. Chrusciel, D. Fajman