



EINLADUNG

im Rahmen des Seminars für Mathematische Physik
(Joint TU/UV Theory Seminar)

zum Vortrag von

Antoine RIGNON-BRET
(Université d'Aix-Marseille)

über

“Covariant charges and fluxes at null infinity”

Abstract:

In this talk, I will review the application of Noether theorem to general relativity and the covariant phase space techniques to construct Noether charges and fluxes on spacetime boundaries. In particular, I will detail the Wald-Zoupas procedure and focus on the physical interpretation. I will show that the implementation of the procedure implies that the algebra of local Noether currents is free of cocycle. Then, I will focus on non-trivial examples at null infinity. I will implement the Wald-Zoupas procedure for BMS and eBMS boundary conditions, and argue that it cannot be implemented successfully for generalized BMS fall-off conditions but for a symmetry group preserving different fall off conditions isomorphic to gBMS with a different algebra.

NB. The seminar will also be streamed in the Schrödinger-Hörsaal.
ZOOM attendees: Meeting ID: 420 707 3557, Password: Q4Tfue5N

Zeit: Dienstag, 19.3.2024, 14:00h

Ort: Erwin-Schrödinger-Hörsaal, Fakultät für Physik, Boltzmanngasse 5, 5. Stock

Zoom-Link:

<https://tuwien.zoom.us/j/4207073557?pwd=YVhUSVpZRnRMR3p0aXdsb1BmaXFwUT09&omn=64465475582>