Fakultät für Physik
Gravitationsphysik
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universität wien

E I N L A D U N G

im Rahmen des Seminars für Mathematische Physik

(Joint TU/UV Theory Seminar)

zum Vortrag

von

Max Riegler

(Harvard University/ Univ. Vienna)

über

„Geometric actions and flat space holography“

Abstract:
In this talk I will talk about recent progress regarding flat space holography in three spacetime dimensions.
I will argue that a Hamiltonian reduction of the Einstein-Hilbert action with Bondi-van der Burg-Metzner-Sachs (BMS) boundary conditions to future (past) null infinity yields a boundary action that is equivalent to the geometric action on BMS_3 coadjoint orbits. This boundary action can then be used to calculate a variety of physically interesting quantities such as the one-loop torus partition function, BMS blocks or (quantum corrections of) entanglement entropy.
A particular focus will be put on the computation of entanglement entropy, quantum corrections thereof and possible consequences for a theory of quantum gravity in 3D asymptotically flat spacetimes.

Zeit: Dienstag, 07.01.2020, 13.45 h
Ort: Fakultät für Physik, Erwin-Schrödinger-Hörsaal, Boltzmanngasse 5. 5. Stock

gez.: S. Fredenhagen, D. Grumiller, C. Zwikel, T. Schimannek