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G. L. Cardoso: Holographic aspects of four-dimensional asymptotically flat $N = 2$ black holes

Tuesday 20 December 2022 11:00 (15 minutes)

We explore holographic attributes of four-dimensional near-extremal Reissner-Nordstrom black hole solutions in ungauged $N = 2$ supergravity theories at the two-derivative level by recasting them as a specific first-order deformation in solution space, associated with an infinitesimal Harrison transformation, of black holes in an AdS_2 space-time. We further show that the $nAdS_2$ attractor mechanism can be recast as a specific deformation of the BPS flow equations in four dimensions. Additionally, we also discuss time-dependent perturbations of the four-dimensional near-extremal Reissner-Nordstrom solutions from a two-dimensional point of view.

Session Classification: Session 6