



Contribution ID : 10

Type : **video conference**

Thermodynamically stable asymptotically flat hairy black holes with a dilaton potential

Friday, 25 September 2020 14:40 (20)

We present a detailed analysis of the thermodynamics of exact asymptotically flat hairy black holes in Einstein-Maxwell-dilaton theory. We compute the regularized action, quasilocal stress tensor, and conserved charges by using a ‘counterterm method’ similar to the one extensively used in the AdS-CFT duality. In the presence of a non-trivial dilaton potential that vanishes at the boundary we prove that, for some range of parameters, there exist thermodynamically stable black holes in the grand canonical and canonical ensembles.

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Session Classification : General relativity and Field theory

Track Classification : General relativity and Field theory