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Selected Poster: Thermodynamic Geodesics of a Supermassive Reissner-Nordström Black Hole

Friday 9 September 2016 11:30 (30 minutes)

Abstract: Starting from a Geometrothermodynamics metric for the space of thermodynamic equilibrium states in the mass representation, numerical techniques are used to analyse the thermodynamic geodesics of a supermassive Reissner-Nordström black hole in isolation. Appropriate constraints are obtained by taking into account the processes of Hawking radiation and Schwinger pair-production. It turns out that the relation which the geodesics establish between the electric charge and entropy of the black hole extremises changes in the black hole's mass.

Summary

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