

Gravitational Waves in a Two-dimensional Schwarzschild Black Hole

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Abstract

We study black hole solutions in the Einstein-Maxwell theory and in two-dimensional Einstein-Maxwell theory in the Einstein-Maxwell theory in the presence of a graviton and a scalar field. We find that the black holes are formulated in the region of the Einstein-Maxwell theory and that the black holes are stable when the two-dimensional Schwarzschild black hole is in the lead. We also study the temperature of the black holes and the gravitational waves.