

Recent Developments in Black Hole Critical Phenomena

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Abstract

I will present an overview of some recent calculations concerning the black hole threshold in models of gravitational collapse. Following a brief review of the key features of black hole critical phenomena, I will focus on the phenomenology observed in axisymmetric collapse of a massless scalar field, as well as the spherically symmetric collapse of a perfect fluid. I will also discuss results pertaining to the relative stability of critical solutions in the case where more than one matter field is coupled to the gravitational field.