APR10-2009-000563

Abstract for an Invited Paper for the APR10 Meeting of the American Physical Society

Status Report on Black Hole Critical Behavior

STEVEN LIEBLING, Long Island University

In 1993 Choptuik found interesting nonlinear behavior near the threshold of black hole formation in the collapse of a real scalar field. His discovery set-off a flurry of further studies revealing such phenomena in many other models, as well as similar behavior in models without black holes. I review the current understanding produced by much of this work and also emphasize remaining questions.