

Black Holes in Higher Dimensions



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Black holes are one of the most remarkable predictions of Einstein's general relativity. In recent years, ideas in brane-world cosmology, string theory and gauge/gravity duality have motivated studies of black holes in more than four dimensions, with surprising results. In higher dimensions, black holes exist with exotic shapes and unusual dynamics. Edited by leading expert Gary Horowitz, this exciting book is the first devoted to this new field. The major discoveries are explained by the people who made them: Rob Myers describes the Myers–Perry solutions that represent rotating black holes in higher dimensions; Ruth Gregory describes the Gregory–Laflamme instability of black strings; and Juan Maldacena introduces gauge/gravity duality, the remarkable correspondence that relates a gravitational theory to nongravitational physics. Accessible to anyone with a standard course in general relativity, this is an important resource for graduate students and researchers in general relativity, string theory and high energy physics.

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