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Nota di contenuto	Black holes, entropy, and information / G.T. Horowitz -- Gravitational waves from black-hole mergers / J.G. Baker [and others] -- Out-of-this-world physics : black holes at future colliders / G. Landsberg -- Black holes in globular clusters / S.L.W. McMillan -- Evolution of massive black holes / M. Volonteri -- Supermassive black holes in deep multiwavelength surveys / C.M. Urry & E. Treister -- Black-hole masses from reverberation mapping / B.M. Peterson & M.C. Bentz -- Black-hole masses from gas dynamics / F.D. Macchetto -- Evolution of supermassive black holes / A. Muller & G. Hasinger -- Black-hole masses of distant quasars / M. Vestergaard -- The accretion history of supermassive black holes / K. Brand & the NDWFS Bootes Survey Teams -- Strong field gravity and spin of black holes from broad iron lines /

A.C. Fabian -- Birth of massive black-hole binaries / M. Colpi [and others] -- Dynamics around supermassive black holes / A. Gualandris & D. Merritt -- Black-hole formation and growth / S.L. Shapiro -- Estimating the spins of stellar-mass black holes / J.E. McClintock, R. Narayan & R. Shafee -- Stellar relaxation processes near the galactic massive black hole / T. Alexander -- Tidal disruptions of stars by supermassive black holes / S. Gezari -- Where to look for radiatively inefficient accretion flows in low-luminosity AGN / M. Chiaberge -- Making black holes visible / J.H. Krolik.

Sommario/riassunto

Black holes, once considered to be of purely theoretical interest, play an important role in observational astronomy and a range of astrophysical phenomena. This volume is based on a meeting held at the Space Telescope Science Institute, which explored the many aspects of black hole astrophysics. Written by world experts in areas of stellar-mass, intermediate-mass and supermassive black holes, these review papers provide an up-to-date overview of developments in this field. Topics discussed range from black hole entropy and the fate of information to supermassive black holes at the centers of galaxies, and from the possibility of producing black holes in collider experiments to the measurements of black hole spins. This is an invaluable resource for researchers currently working in the field, and for graduate students interested in this active and growing area of research.
