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Nota di contenuto	Superluminal motion in quasars and BL Lac objects -- Statistics of superluminal sources -- VLBI polarization measurements of BL Lacertae objects -- Statistical properties of radio polarization of blazars -- The physical conditions and orientations of parsec-scale jets derived FROM CM-waveband variability data -- Radio variability of BL Lacs and related objects: Observations vs. shocked jet models -- The host galaxy of BL Lac objects or what's in a name? -- Optical observations of a complete sample of radio selected BL Lac objects -- A spectroscopic study of blazars at medium resolution. Observations of PKS 0521-36, PKS 0537-44 and PKS 0823-22 -- Beamed ionizing radiation in radio galaxies -- What are the emission line filaments along the radio axis of Centaurus A? -- Narrow band imaging close to the nuclei of BL Lac

objects -- Anisotropic ionising continuum emission in AGNs --  
Optical-infrared synchrotron emission in luminous AGN -- Polarization  
OF BL Lac objects -- Simultaneous UBVRI polarimetry of blazars --  
Optical photometry and polarimetry of BL Lacertae objects -- An optical  
polarization survey for BL Lacs -- Long-term optical variability of BL  
Lac objects -- The nature of the rapid optical variability observed for BL  
Lacertae -- Energy distributions of blazars -- Radio and optical  
variability in blazars -- Simultaneous optical and IR observations of BL  
Lacertae objects -- Simultaneous optical and IR polarimetric  
observations of Blazars -- Multiwaveband observations of the Blazar  
1156+295 -- Recent activity in 3C 273 -- Questions and comments --  
BL Lacertae objects detected in the HEAO-1 all sky X-ray survey -- BL  
Lac objects from the extended medium sensitivity survey: The surface  
density -- BL Lacertae objects from the EXOSAT high galactic latitude  
survey: Constraints on the LogN-LogS and on the cosmological  
evolution -- The optical and radio properties of X-ray selected BL  
Lacertae Objects -- Optical polarimetry of x-ray selected BL Lacs 1989  
-- Two new BL Lacertae objects discovered in the error boxes of hard  
X-ray sources -- Discovery of an X-ray selected optically highly  
variable quasar -- Einstein observatory X-ray spectra of BL Lac objects  
-- BL Lac objects as X-Ray sources: The Exosat observations -- The  
exosat spectral survey of BL Lacertae objects -- X-ray studies of BL Lac  
objects with Ginga -- Spectral components of BL Lac objects and other  
compact extragalactic radio sources -- The X-ray variability of PKS  
2155-304: A power spectrum analysis -- Emission models of BL Lac  
objects -- On the energy dependent variability of BL Lac Objects --  
Relativistic jet models for the BL Lacertae object Mrk 421 during three  
epochs of observation -- On the steep X-ray spectrum of BL Lac objects  
-- Models of OJ 287 based on optical monitoring -- On speed of jets  
-- The interaction of relativistic jets with the ambient radiation field --  
Collimation and polarization of radiation through scattering by jets --  
Accretion-disk models of BL Lac objects -- The relationship between BL  
Lacertae objects and other types of active and normal galaxies and  
quasi-stellar objects -- BL Lac objects, OW/HPQs and unified models  
-- The relation of BL Lac objects to QSOs and galaxies -- Is  
gravitational lensing important for BL Lac objects? -- Galaxies near  
distant quasars: Evidence for statistical gravitational lensing --  
Relativistic beaming, luminosity functions, and the number counts of BL  
Lac objects -- Evolutionary BL Lacs ? -- A model for the evolution of  
quasars and BL Lacs -- Nature and evolution of BL Lac objects --  
General discussion.

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### Sommario/riassunto

This volume gives a comprehensible survey of BL Lac objects: contributors summarize observations on these interesting astrophysical objects and present theoretical models to explain them. Understanding these objects should help to give a better insight into the physics of black holes and relativistic plasmas. Topics addressed cover radio jets expanding at superluminal velocities, possible effects of relativistic jets on interstellar matter, the continuum emission over the whole electromagnetic system and its variability, and the impact of these observations on gravitational lensing and cosmological evolution. The book should be immensely useful for graduate students.

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