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Titolo	Astrotomography : Indirect Imaging Methods in Observational Astronomy // edited by H.M.J. Boffin, D. Steeghs, J. Cuypers
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Descrizione fisica	1 online resource (XX, 434 p.)
Collana	Lecture Notes in Physics, , 0075-8450 ; ; 573
Disciplina	522.6
Soggetti	Astronomy Astronomy—Observations Astrophysics Physical measurements Measurement Astronomy, Observations and Techniques Astrophysics and Astroparticles Measurement Science and Instrumentation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Doppler Tomography -- Mapping the Peculiar Binary GP Com -- H?-Emission Doppler Tomography of Long-Period Cataclysmic Variable Stars -- Doppler Tomography of the Dwarf Nova IY UMa During Quiescence -- Spiral Waves in Accretion Discs—Observations -- Spiral Waves in Accretion Discs—Theory -- Spiral Shocks in an Inviscid Simulation of Accretion Flow in a Close Binary System -- Imaging the Secondary Stars in Cataclysmic Variables -- Statistics of Isolated Emission Sources in Cataclysmic Variables -- Tomography of Polars -- Tomography of Magnetic Accretion Flows -- The Geometrical Configuration of Polars and Possible Reconstruction Artefacts of Eclipse Mapping Methods -- Spot Mapping in Cool Stars -- Imaging the Magnetic Topologies of Cool Active Stars -- Differential Rotation of Close Binary Stars: Application to HR 1099 -- Magnetic Doppler Imaging of Chemically Peculiar Stars -- Stokes Imaging of the Accretion

Region in Magnetic Cataclysmic Variables -- Doppler Images of the M Dwarf RE 1816 +541 -- The Method of Spectra Disentangling and Its Links to Doppler Tomography -- Fourier Disentangling of Composite Spectra -- Doppler Tomography of Eclipsing and Non-eclipsing Algols -- Tomography of the Atmosphere of Long-Period Variable Stars -- Eclipse Mapping of Accretion Discs -- Physical Parameter Eclipse Mapping -- Applications of Indirect Imaging Techniques in X-ray Binaries -- Doppler Tomography of XTE J2123-058 and Other Neutron Star LMXBs -- Echo Mapping of Active Galactic Nuclei -- Echoes in X-ray Binaries: Mapping the Accretion Flow.

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#### Sommario/riassunto

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This comprehensive and unique reference work on astro-tomography is based on expanded and suitably edited contributions to the 1st International Workshop on Astro-tomography. The focus is on studying indirect imaging and subsequent reconstruction techniques with applications in all areas of observational astronomy, astrophysics and cosmology. Detailed subject and object indexes, together with a list of useful resources on the Internet, will help the reader to use this book in a most efficient way.

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