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Autore	Ashburner, Michael
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Altri autori (Persone)	BerlepschRegina von
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Nota di contenuto

Reviews in Modern Astronomy; Contents; Preface; Karl Schwarzschild Lecture: Dissecting galaxies with quantitative spectroscopy of the brightest stars in the Universe; Ludwig Biermann Award Lecture: Pulsations and planets: The asteroseismology-extrasolar-planet connection; Ludwig Biermann Award Lecture: Stellar archaeology: Exploring the Universe with metal-poor stars; Quantitative solar spectroscopy; Metallicity and kinematical clues To the formation of the Local Group; Probing dark matter, galaxies and the expansion history of the Universe with Ly α in absorption and emission Hypervelocity stars in the Galactic halo Schwarzschild modelling of elliptical galaxies and their black holes; Star and protoplanetary disk properties in Orion's suburbs; Molecular gas at high redshift; X-ray spectroscopy and mass analysis of galaxy clusters; High-fidelity spectroscopy at the highest resolution; Spectroscopy of solar neutrinos; Open clusters and the galactic disk; VLT-CRIRES: "Good Vibrations" Rotational-vibrational molecular spectroscopy in astronomy; Index of Contributors; General Table of Contents; General Index of Contributors

Sommario/riassunto

This 22nd volume in the series contains 15 invited reviews and highlight contributions from outstanding speakers presented during the 2009 annual meeting of the Astronomical Society on the subject of "Deciphering the Universe through Spectroscopy", held in Potsdam, Germany. Topics range from the measurements of magnetic fields on the surface of the sun via detailed measurements of abundances in stellar atmospheres to the kinematics of the universe at its largest scales. The result is a systematic overview of the latest astronomical and cosmological research.
