

1. Record Nr.	UNINA9910257414303321
Titolo	High Resolution in Solar Physics [[electronic resource]] : Proceedings of a Specialized Session of the Eighth IAU European Regional Astronomy Meeting Toulouse, September 17–21, 1984 // edited by Richard Muller
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1985
ISBN	3-540-39608-X
Edizione	[1st ed. 1985.]
Descrizione fisica	1 online resource (VII, 323 p.)
Collana	Lecture Notes in Physics, , 0075-8450 ; ; 233
Disciplina	520
Soggetti	Observations, Astronomical Astronomy—Observations Astrophysics Astronomy, Observations and Techniques Astrophysics and Astroparticles
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Professor Rösch, Pic du Midi and high resolution -- Acknowledgements and comments -- The large European solar telescope -- The European observatory at the Canary Islands -- High resolution solar observations -- Adaptive image stabilization of solar observations: A review -- Collages of granulation pictures / Poster -- Simulated correlation tracking on solar granulation -- High resolution speckle imaging of solar small-scale structure: The influence of anisoplanatism -- Speckle interferometry technique applied to the study of granular velocities -- The interest of simultaneous spectral and spatial high resolution spectroscopy in the infrared -- Preliminary results obtained with a new experimental apparatus for solar spectropolarimetry -- Solar two-dimensional spectroscopy with universal birefringent filters and fabry-perot interferometerRS -- Solar high resolution balloon spectra obtained in the 190–300 nm wavelength band -- Hundredths of arcsec resolutions with new optical correctors on deep u.v. photoresist -- Observations of the birth and fine structure of sunspot penumbrae -- The high resolution structure of the sun -- Fine structure and evolution of solar granulation -- Temperature gradients in the solar granulation

-- Line profiles and longitudinal velocity field in seeing limited small-scale atmospheric structures -- Determination of magnetic fields in unresolved features -- Evershed effect and magnetic field in penumbral fine structures -- Bright points in H α wings and connected mass flows in the solar chromosphere -- Quantitative filtergram imagery of the solar acoustic oscillations -- Theoretical interpretation of small-scale solar features -- Relevance of magnetic flux expulsion from the lower solar atmosphere to the acceleration of the solar wind -- Magnetic and velocity field analysis of a quiet region near the center of the sun -- A possible mechanism for solar photosphere bright point formation -- The structure of the solar granulation -- A model for the run of the horizontal and vertical velocities in the deep photosphere -- Influence of umbral dots on sunspot models -- Some results of photospheric fine structure investigations at the Pulkovo observatory -- Atmospheric fine structure as a probe for the solar interior -- Variability of the quiet photospheric network -- Search for giant convective cells from the analysis of meudon spectroheliograms -- The variability of photospheric granulation and total radio flux of quiet sun in the centimetric waveband during a solar cycle -- Dynamic phenomena in the chromospheric umbra and penumbra of a sunspot -- Photometry of light-bridges in sunspots -- Observations of Ellerman bombs in H γ -- Summary.
