1. Record Nr. UNISA996466694603316

Titolo	Coronal Physics from Radio and Space Observations [[electronic resource]] : Proceedings of the CESRA Workshop Held in Nouan le Fuzelier, France, 3–7 June 1996 / / edited by Gerard Trottet
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1997
ISBN	3-540-68693-2
Edizione	[1st ed. 1997.]
Descrizione fisica	1 online resource (XVII, 226 p. 68 illus., 4 illus. in color.)
Collana	Lecture Notes in Physics, , 0075-8450 ; ; 483
Disciplina	523.7/5
Soggetti	Space sciences Observations, Astronomical Astronomy—Observations Astrophysics Physical measurements Measurement Space Sciences (including Extraterrestrial Physics, Space Exploration and Astronautics) Astronomy, Observations and Techniques Astrophysics and Astroparticles Measurement Science and Instrumentation Sun Corona Congresses
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Diagnostics of energy release in the X-ray corona -- Solar flare radio and hard X-ray observations and the avalanche model -- Radio observations of the quiet sun and their implications on coronal heating -- Energy release in the solar corona -- Observations of the 3D distributions of thermal to near-relativistic electrons in the interplanetary medium by the wind spacecraft -- Coronal and interplanetary particle beams -- Coronal mass ejections and type II radio bursts -- Shock waves and coronal mass ejections -- An upgrade of nobeyama radioheliograph to a dual-frequency (17 and 34 GHz) system -- The nançay radioheliograph -- Recent developments of the

	solar Submm-wave telescope (SST) -- Solar astronomy and the Square Kilometer Array Interferometer -- Prospects for the solar radio telescope.
Sommario/riassunto	This volume provides an overview of our current understanding of the physics related to: coronal structures and coronal heating; large-scale coronal shock waves and coronal mass ejections; particle beams in the solar corona and in the interplanetary medium; and explosive energy-release phenomena and particle acceleration. The different articles give a well-balanced presentation of relevant observations based upon various techniques, models and theories, providing a global view of these phenomena and of the underlying physics. In-situ measurements of particles and waves with ULYSSES and WIND and spectral and imaging data from SOHO and YOHKOH provide an unprecedented richness of relevant data. For their better understanding, radio observations - also included in this book - play a key role.