

1. Record Nr.	UNINA9910257397803321
Titolo	Solar and Stellar Physics [[electronic resource] ] : Proceedings of the 5th European Solar Meeting Held in Titisee/Schwarzwald, Germany, April 27-30, 1987 // edited by Egon-Horst Schröter, Manfred Schüssler
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1987
ISBN	3-540-48053-6
Edizione	[1st ed. 1987.]
Descrizione fisica	1 online resource (V, 234 p. 20 illus.)
Collana	Lecture Notes in Physics, , 0075-8450 ; ; 292
Disciplina	550 526.1
Soggetti	Geophysics Space sciences Geophysics/Geodesy Space Sciences (including Extraterrestrial Physics, Space Exploration and Astronautics)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	What can the sun tell us about stellar activity? -- On the origin of stellar magnetism -- Stellar activity and rotation -- Solar and stellar convection -- Photospheric structure in solar-type stars -- Solar and stellar chromospheres -- Solar an stellar coronae -- Stellar vs. solar activity: The case of pre-main sequence stars -- Winds in late type stars and the solar wind -- Observations from space vs. ground based observations: Advantages and disadvantages -- New ideas about granulation based on data from the solar optical universal polarimeter instrument on spacelab 2 and magnetic data from big bear solar observatory -- Future prospects of stellar and solar physics from space.
Sommario/riassunto	These proceedings bring together ideas from solar and stellar physics. The sun is near enough for rather detailed observations and one chapter is devoted to the more recent experimental data from observations from space. On the other hand the multitude of stars provides a wide range of physical parameters to test hypotheses in solar and stellar astrophysics. The reader will find an illuminating

overview of these fields ranging from the dynamo in the convection zone to the stellar envelopes and winds in the outer regions. In particular the importance of small-scale magnetohydrodynamic processes for the activity phenomena plays an important role in the contributions to this volume. For both students and researchers the general introduction by N. O. Weiss makes an excellent guide to this very active field of research. (See also Lecture Notes in Physics Vol. 291.).

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