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SOLAR AND STELLAR MAGNETIC FIELDS: ORIGINS AND CORONAL EFFECTS

J. O. STENFLO (ED.)

During the past decade we have witnessed a gradual convergence of solar and stellar physics. The unifying role in the 'solar-stellar connection' is played by the magnetic field. Recent ground-based observations have supplied us with much valuable material on the empirical connections between stellar rotation – magnetic activity – cycle – age, providing a new testing ground for theories of magnetic-field generation in stellar interiors. Observations with the Einstein and IUE satellites have led to new insights concerning the role of magnetic fields in the structure and energy balance of stellar atmospheres. It was therefore, timely to bring together observers and theoreticians in a major interdisciplinary symposium, in an attempt to obtain a more unified view of the various aspects of solar and stellar physics. The present volume provides a comprehensive and up-to-date account of this rapidly developing new area of astrophysics.

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