



Magnetic Coupling between the Interior and Atmosphere of the Sun (Astrophysics and Space Science Proceedings)

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Solar physics in India has a tradition that can be traced to the setting up of the Kodaikanal Observatory in 1899 when the Madras Observatory was relocated to a high altitude site with a view to initiate observations of the sun. This conference on Magnetic Coupling between the Interior and the Atmosphere of the Sun during 2–5 December 2008 was planned to coincide with centenary of the Evershed effect discovery at Kodaikanal in 1909. The aim of this meeting was to bring to a critical focus a comprehensive understanding of the important issues pertaining to solar magnetism with particular emphasis on the various MHD processes that operate in the solar atmosphere. The current status of magnetic field measurements and their implications in the light of recent theories and numerical modeling that address the fundamental scales and processes in the highly magnetized turbulent plasma were reviewed during this meeting. The meeting was timely for the following reasons: Space observations such as from SOHO and TRACE have provided a wealth of multiwavelength observations on processes occurring in regions of the atmosphere extending from the photosphere up to the outer corona. With the launch of Hinode and STEREO in 2006 and of SDO (Solar Dynamics Observatory) shortly, this conference provided a platform for in-depth discussions on new results from various space missions as well as a comparison with ground-based observing facilities such as the Swedish 1-m Solar Telescope. Using sophisticated image processing techniques, such telescopes routinely generate observations with a resolution better than 0.1 arcsec, thereby yielding more informative diagnostics for instance of the microstructure of flux tubes.

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