SOLAR OSCILLATIONS: CURRENT TRENDS

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Helioseismology, the use of solar oscillations to infer the subsurface structure of the Sun, is becoming a mature discipline that gave birth to two main branches (global and local helioseismology). These two fields produced spectacular results during the past decades regarding the global structure of the Sun (presence of a tachocline, depth of the convection zone, meridional circulation...) and the local structure of magnetized regions like the sunspots. In this presentation we summarize some of these results and emphasize the current trends in helioseismology, on the eve of the launch of the NASA/SDO satellite.

Sun, Helioseismology

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