



The Keck Institute for Space Studies  
presents an open lecture on

# Seismology of the Sun and Stars

**Professor Laurent Gizon**

Max-Planck-Institut  
für Sonnensystemforschung

Wednesday, March 17, 2010

4 pm

Hameetman Auditorium (Cahill Building)  
California Institute of Technology

The origin of the magnetic field in cool stars with convective envelopes, such as the Sun, is not understood. Forthcoming observations of solar and stellar oscillations may provide the information that is required to constrain models of the dynamo.

Professor Gizon will show how the solar interior can be imaged in three dimensions to infer flow velocities, structural inhomogeneities, and the magnetic field. In the near future, the seismology of solar-type stars of different ages, masses, and rotation periods should reveal crucial relationships between stellar internal properties (rotation, convection) and activity cycles.

To give a taste of the possibilities, he will present an analysis of oscillations in a Sun-like star observed by CoRoT.

Pizza and sodas will follow the lecture

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Seating is limited and is available on a first come, first served basis