

Fizički odsjek, PMF, Sveučilište u Zagrebu
Bijenička cesta 32

Seminar Fizičkog odsjeka

Vrijeme (s.t.)

Mjesto

utorak 7. 10. 2014., 14:15 h

predavaonica F201

Asteroseismology of Red-Giant Stars: Mixed Modes, Differential Rotation, and Eccentric Binaries

Paul G. Beck

Service d'Astrophysique, IRFU/DSM/CEA Saclay, France

The unparalleled photometric data obtained by NASA's Kepler space telescope has led to an improved understanding of red giant stars from asteroseismology. The detection of mixed modes in red giant stars has enabled us to determine the evolutionary state and constrain their internal rotational gradient. In addition, we continue to find more red giants in binary systems, which are ideal cases to study the interaction of stars from seismology. Combining the seismic study of the oscillating component of the system as well as the orbital modeling of the system from light and radial velocity curves enables us to obtain a comprehensive understanding of the system and its components.

Voditelji seminara FO

Damir Pajić i Ivica Smolić