

7th Iberian Meeting on Asteroseismology

Day 1: 06/10/2020

10:00 - 10:30 Welcome & presentation

10:30 - 11:30 Session 1: Institutional talks

T. Campante: IA-CAUP

R. Garrido: IAA

S. Mathur: IAC + CEA Saclay

A. Moya: UPM + CAB

J.C. Suárez: UGR

11:30 - 12:00 Coffee break

12:00 - 13:30 Session 2: Short talks & summary of projects

Optimizing TESS short cadence aperture for Asteroseismology of solar-like stars (Lucía González Cuesta)

Surface stellar rotation analysis in Kepler lightcurves with random forest classifiers (Sylvain Breton)

Galactic archaeology of solar-type stars with the NASA TESS mission (Thibault Boulet)

Modelling Stars with Mixed Modes (Miguel Tavares Clara)

TESS FFI red-giant light curve corrections (Filipe Pereira)

Time-frequency analysis using the Wavelet Transform (Alejandro Ramón Ballesta)

In the quest of the ultimate Non-linearity identification. (Mariel Lares)

13:30 - 15:00 Lunch & rest

15:00 - 16:30 Working Session (WS1):

Time-frequency analysis of the pulsation spectra of Delta Scuti stars (Project 6)

How to best prepare TESS 2-min cadence light curves of solar-type stars for seismic analysis? (Project 8)

Modelling of the Mixed Modes of Garfield (Project 9)

16:30 - 17:00 Progress summary

Day 2: 07/10/2020

09:55 - 10:00 Proposal of the daily working plan

10:00 - 11:30 WS2:

Plato Light Curves preparation (Project 5)

TESS FFI red-giant light curve corrections (Project 10)

Gravity-darkening effect and age determination for thousands of delta Scuti stars (Project 2)

11:30 - 12:00 Coffee break

12:00 - 13:30 WS3:

Using VO tools to solve the 29 Cygni puzzle (Project 4)

Pulsating stars and new physics (Project 11)

Phase patterns of non-linearities: the problem of the subtraction combinations (Project 7)

13:15 - 13:30 Learning asteroseismic patterns on stars to infer large separation with NN
(Roberto Maestre)

13:30 - 15:00 Lunch & rest

15:00 - 16:30 WS4:

Analysis of the visual binary roAp-dSct system TIC394124612 (Project 3)

Characterization of stellar magnetic activity in solar-like stars through fractal analysis (Project 1)

16:30 - 16:45 TBD (David Pamos)

16:45 - 17:15 Progress summary

Day 3: 08/10/2020

09:55 - 10:00 Proposal of the daily working plan

10:00 - 11:30 WS5

Using VO tools to solve the 29 Cygni puzzle (Project 4)

Pulsating stars and new physics (Project 11)

11:30 - 12:00 Coffee break

12:00 - 13:30 WS6

Plato Light Curves preparation (Project 5)

Gravity-darkening effect and age determination for thousands of delta Scuti stars (Project 2)

13:30 - 15:00 Lunch & rest

15:00 - 16:30 WS7

Analysis of the visual binary roAp-dSct system TIC394124612 (Project 3)

16:30 - 17:00 Progress summary

18:00 - 19:00 Social Event: Virtual visit to Calar Alto Observatory

Day 4: 09/10/2020

10:00 - 11:30 Round table: funding opportunities

11:30 - 12:00 Coffee break

12:00 - 13:30 Round table: summary & comments