

Workshop "PLATO STESCI Workshop II"

2018 May 22-25th

Venue: Hotel Eolian, Milazzo (Messina, Italy)

Dear All,

You receive this mail because you registered to the Milazzo meeting or you answered positively to the first circular but you have not yet registered.

Registration

Please for finalizing our budget, we need you to answer the following questions:

- confirm your participation if you have already registered (send an e_mail to cassisi@oa-abruzzo.inaf.it and in cc mariejo.goupil@obspm.fr)
- registered if you have not yet done it and want to attend.

The registration/confirmation deadline is strictly set up to next Tuesday April 17th.

In order to register to the workshop as well as for all information about the conference venue, logistic and accommodation, we address to the conference URL site :

<https://plato-stesci2018.weebly.com>

Venue

Buses from Catania airport to the Hotel Eolian Milazzo and viceversa will be available.

The timetable for this bus service will be the following:

- *on Monday 21th the bus will leave from the airport at 05:00 pm;*
- *on Tuesday 22th the bus will leave from the airport at 10:30 am;*

- *on Friday 25th the bus will leave from the hotel at 02:00 pm;*
- *on Saturday 26th the bus will leave from the hotel at 09:30 am;*

Additional information about the location of the bus stop at the Catania Airport, and on how to easily identify the bus will be provided on the WEB pages of the workshop in the next weeks.

Please specify if you wish to take advantage of this pick-up service, and in case of a positive answer, let us know what bus you plan to use. Send this information to cassisi@oa-abruzzo.inaf.it and in cc mariejo.goupil@obspm.fr.

The deadline for providing this information is Tuesday April 24th.

Accommodation:

If you wish to take advantage of the special price obtained by the LOC for the workshop, please refer to the information provided in the Workshop WEB pages and book your room as soon as possible, by using the form available at the Hotel Eolian Milazzo URL site. We remember you to use the code, we reported in the Meeting WEB pages, in order to obtain the special price reserved to people attending the workshop.

Please note that due to the limited number of rooms at the Hotel Eolian, the first of you that will make the hotel booking will have the room in this hotel, while all the other participants will be accommodate in other hotels- belonging to the same company (and so similar quality) – located in the surroundings of the conference venue. For the whole meeting, the Eolian Milazzo Hotel will take care - free of charge - of the transportation from these hotels to the conference venue and vice-versa.

In case you prefer not using the accommodation suggested by the LOC, another hotel is located at a walking distance from the conference venue, Hotel Garibaldi (<http://www.hotelgaribaldi.net>)

Registration:

The workshop registration will start at about 12:30am on May 22th in the hall of the Hotel Eolian.

Presentations:

Computers running Windows and Mac OS will be available for the presentations. Please prepare your presentation in power point format or PDF one. The speakers are kindly invited to provide their presentation by using a pen drive well in advance of the session where their talk is scheduled

Unfortunately, no videoconference will be possible. Skype on case by case might be possible but we can not provide a firm guarantee about the stability of the internet connection.

Social events:

- ✓ There will be a **social dinner on Thursday 24th at 08:30pm**, in the restaurant of the Hotel Eolian Milazzo. Unfortunately, we can not cover the expenses for this dinner. The cost of the dinner is 55,00 euro including drinks. At the workshop registration, you will be asked to specify whether you wish to attend the social dinner, to pay (by cash) for it. It will be possible to have an individual invoice for the social dinner cost.

- ✓ **On Thursday 24th from 4:30pm to about 7:00pm**, we organize a guiding tour to the Milazzo Castle. It is a very nice and important historical building from where there is an amazing view of Milazzo cape and Eolian Islands. The cost of the ticket is 5,00 euro. The workshop organization will cover the cost for the guide for the visit. Once again, you are kindly requested to inform us if you wish to participate to this excursion during the meeting registration and to pay for the cost of the ticket.

Program:

The scientific program of the meeting is attached below.

Note: the SOC wish to maintain the meeting as an informal one with presentations mainly used as support for fruitful and vivid discussions. The discussions must bring up actions and deadlines for these actions at the end of the meeting.

Looking forward to see all of you in Milazzo.

Best regards

The Scientific Organizing Committee

Scientific program

Tuesday, May 22th

12:30 *Registration*

13:30 - 13:50 **Welcome** (M.J. Goupil)

Session 1: The PLATO mission (Moderator: M.J. Goupil)

13:50 – 14:15 **The implementation of PLATO within the ESA Science programme** (A. Heras)

14:15 - 14:45 **PLATO from the exoplanet point of view** (M. Deleuil)

14:45 - 15:15 **The PLATO Input Catalogue** (G. Piotto)

15:15 - 15:40 **PSM management** (D. Brown)

15:40 - 16:00 **Discussion**

16:00 - 16:30 *coffee break*

Session 2: Optimisation, Inference, selection criterium (Moderator: M. Cunha)

16:30 – 17:00 **Challenges for fitting observations of PLATO stars in the main sequence** (D. Reese)

17:00 – 17:30 **Challenges for fitting observations of PLATO subgiant stars.** (S. Deheuvels)

17:30 - 17:45 **Discussion**

17:45 - 18:30 **Contributed talks and activity management**

17:45- 18:00 **BASTA: current features and planned development** (V. Silva Aguirre)

Wednesday , May 23th

9:00-9:30 **Session 1 (continued)** Plato signal to noise ratio (Anko Boerner)

Session 3 : Classical age dating (Moderators: J. Christensen-dalsgaard & A. Serenelli)

9:30 - 10:00 **Binary stars, (model) uncertainties and limitations** (S. Degl'Innocenti)

10:00 - 10:30 **Isochrone fitting, incl. clusters , (model) uncertainties and limitations** (P. Moroni)

10:30 - 11:00 **A Gaia perspective** (R. Andrae)

11:00 - 11:30 *coffee break*

11:30 – 12:00 **Gyrochronology, activity, lithium, etc.** (S. Barnes)

12:00 - 12:15 *Discussion*

12:15-12:45 **Contributed talks and activity management**

12:45-14:00 *lunch*

Session 4: Benchmarks stars: which stars for what purpose? (Moderators: T. Morel & M. Cunha)

14:00 - 14:30 Introduction: benchmarks in WP120 (J. Christensen-Dalgaard)
14:30 - 15:00 Prospects from interferometry and asteroseismology (L. Bigot)
15:00 - 15:30 Prospects from eclipsing binaries (P. Maxted)

15:30 – 16:00 *coffee break*

16:00 - 16:30 The programme: « Accurate masses for double-lined spectroscopic binary components (Y. Lebreton)

16:30 - 17:00 Benchmark targets for studying Rotation and Activity of Sun-like stars and its evolution (J.D. do Nascimento)

17:00 – 17:30 Lessons learned from the TESS target selection (K. Stassun)

17:30 – 18:00 Contributed talks and activity management

17:30 – 17:45 Interferometry and exoplanets, R. Ligi

18:00-18:30 Open for discussion in plenary or splinter sessions

Thursday , May 24th

Session 5: Updating stellar modelling (Moderators: A. Serenelli & J. Christensen-Dalgaard)

9:00 - 9:30 Convection in stars (I. Baraffe)

9:30 - 10:00 Microscopic diffusion, radiative acceleration, rotation. (M. Deal)

10:00 - 10:30 Other aspects of input physics : nuclear rates, screening, opacities, EOS (A. Serenelli)

10:30 - 11:00 *coffee break*

11:00 - 11:30 Coupling 3D atmosphere into 1D stellar models. (V. Silva-Aguirre)

11:30 - 12:00 Physics uncertainties in low mass (M) stars (S. Cassisi)

12:00 - 12:45 Contributed talks and activity management

12:00 - 12:15 Reviving Kufuß model for convection (G. Wuchterl)

12:45 - 14:00 *lunch*

Session 6: 3D modelling (Moderator: J. Ballot & A. Serenelli)

14:00 - 14:30 Stagger grid of 3D atmosphere models (Remo Collet)

14:30 - 15:00 On some impact of the structure of the surface layers on the solar-like oscillations (R. Samadi)

15:00 - 15:30 Determination of fundamental stellar parameters from granulation signal (H. Ludwig)

15:30 - 15:45 Discussion

15:45 - 16:30 Contributed talks and activity management

16:30-19:00 *Visit to the castle*

20:30 *Social dinner*

Friday , May 25th

Session 7: Simulating PLATO light curves and extraction of parameters (surface rotation and peak bagging) (Moderators: W.J. Chaplin & A.F. Lanza)

9.30 - 9:50 Current status of PLATO Solar-like light curve simulator and future developments (R. Samadi)

9:50 - 10.10 Kepler light curves as templates for simulating PLATO light curves (S. Aigrain)

10.10 - 10.20 Organization of the hare-and-hound exercise to test algorithms for stellar rotation (A. F. Lanza)

10.20 - 10.45 Evolution of surface rotation and stellar angular momentum (J. Bouvier)

10.45 - 11:10 Asteroseismic Peak-Bagging: State of the Art and Planned Development (G. Davies)

11.10 - 11.40 *coffee break*

11.40 - 13.00 Contributed talks and activity management

12.05 - 12.20 Analysis of Kepler light curves (S. Raetz)

12.20 - 12.45 Inclination angle measurement and exoplanets (C. Damiani)

13:00-14:30 *lunch*

14:30-17:00 WP12 management meeting (restricted to the top leaders)