

Invited talk (IT): 35+10 minutes

Contributed talk (CT): 20+5 minutes

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## Tuesday 26th February

09:10-09:30 Registration at the Patio of IAA

09:30-09:40 Welcome and practical information (J.C. Suarez)

09:40-09:55 Introduction and objectives of the meeting (M.-J. Goupil)

### **Session 1 - Limb-darkening in the context of PLATO: stars and exoplanets (chairman: TDB)**

09:55-10:40 IT - The role of limb darkening in the analysis of exoplanetary transit light curves (S. Csizmadia)

10:40-11:25 IT - The power-2 limb darkening law - implementation and confrontation with observations (P. Maxted)

11:25-11:55 Coffee break

11:55-12:40 IT - Stellar radii from interferometry (D. Mourard)

12:40-13:05 CT - A high angular resolution point of view on exoplanets and spots (R. Ligi)

13:05-13:30 CT - Constraining limb darkening from young active solar analog stars (J. D. Do Nascimento)

13:30-13:50 Discussion (moderator: S. Csizmadia)

13:50-15:20 Lunch

### **Session 2 - Theoretical/empirical determinations of limb darkening (chair TBD)**

15:20-16:05 IT - Solar limb darkening: observations and models (S. Solanki)

16:05-16:50 IT - Center-to-limb variation calculations based on 1D model atmospheres (B. Plez)

16:50-17:15 CT - A fast all-in-one code for synthesising stellar spectra based on ATLAS9 (A. Shapiro on behalf of V. Witzke)

17:15-17:40 Discussion (moderator: B. Plez)

20:00 Conference dinner

Wednesday 27th February

**Session 2 - Theoretical/empirical determinations of limb darkening - continued (chair TBD)**

10:00-10:45 IT - Center-to-limb variation calculations based on 3D model atmospheres (R. Collet)

10:45-11:05 Discussion (moderator: B. Plez)

11:05-11:35 [Coffee Break & Photo Group](#)

**Session 3 - Plans for PLATO and interfaces WP11-WP12 (chair TBD)**

11:35-12:20 IT - Gravity and limb-darkening for space missions (CoRoT, Kepler, MOST, TESS) and plans for PLATO (J.C. Suarez on behalf of A. Claret)

12:20-12:40 Discussion (moderator: T. Morel)

12:40-13:15 Wrap-up discussion and actions (moderator: M.-J. Goupil)

13:15 [End of meeting](#)