

SCIENTIFIC PROGRAM OF THE SONG2018 WORKSHOP

V3.0 (16/10/2018)

Tuesday, October 23th

09:00 – 09:10 Sergio & Pere Welcome

SESSION 1: THE SONG PROJECT

Chair: M. J. Martínez González

09:10 – 09:40 C-D, J. Presentation of the SONG project: past and present [RC]

09:40 – 10:10 Antoci, V. SONG policies and time allocation [RC]

10:10 – 10:50 Andersen, M.F. Instruments, observations and outreach [RC]

11:00 – 11:30 **COFFEE BREAK**

11:30 – 11:50 Handberg, R. The SONG Data Archive (SODA) [RC]

11:50 – 12:15 Pallé, P. L. The Solar-SONG initiative [RC]

12:15 – 12:40 Wittenmyer, R. SONG-Australia at the University of Southern Queensland [RC]

13:00 – 15:00 **LUNCH**

15:00 – 15:30 Grundahl, F. The first four years of SONG data: lessons learned [KnT]

SESSION 2: SCIENCE WITH SONG

Chair: D. Huber

15:30 – 16:00 Bedding, T. Asteroseismology with SONG [KnT]

16:00 – 16:20 Corsaro, E. Asteroseismology of the slowly rotating active subgiant EK Eri [CT]

16:20 – 16:40 Frandsen, S. Red Giant Seismology [CT]

16:40 – 17:20 **COFFEE BREAK**

17:20 – 17:40 Pallé, P. L. High precision radial velocity monitoring of Arcturus with SONG: Results of the 2.5-year continuous campaign [CT]

17:40 – 18:00 Simón-Díaz, S. The power of SONG for studying massive O stars and B supergiants [CT]

18:00 – 18:20 Stello, D. Massive or not massive that is the question [CT]

Wednesday, October 24th

Chair: K. Pollard

09:00 – 09:30 Mathur, S. Stellar Modelling and Asteroseismology: status and current issues [KnT]

09:30 – 09:50 Thévenin, F. First inferences of asteroseismic data of HD122563 from the Hertzprung telescope [CT]

09:50 – 10:10 Andersen, M.F. Helioseismology with Solar-SONG. Results summer'18 campaign [CT]

10:10 – 10:40 Jofre, P. Accuracy and precision of industrial stellar abundances [KnT]

10:40 – 11:00 Allende, C. TESSSONG: The Brightest Northern Stars [CT]

11:00 – 11:30 **COFFEE BREAK**

SESSION 2: SCIENCE WITH SONG (cont.)

Chair: E. Pallé

- 11:30 – 12:00** **Lundkvist, M.** **A SONG of seismic host stars [KnT]**
12:00 – 12:20 Arentoft, T. The exoplanet host star epsilon Tau [CT]
12:20 – 12:40 Heeren, P. Exoplanets Orbiting G and K Giant Stars [CT]
12:40 – 13:00 Hjorth, M. SONG and exoplanets: the discovery and character. of MASCARA-3b [CT]
- 13:00 – 15:00 LUNCH**
- 15:00 – 15:20 Justesen, A. Stellar classification with SONG spectra: Obliquities & exoplanets orbiting early type stars [CT]
15:20 – 15:40 Lodieu, N. The frequency of planets orbiting stars with wide substellar companions [CT]

SESSION 3: CHALLENGES, SYNERGIES AND FUTURE

Chair: T. Bedding

- 15:40 – 16:10** **Huber, D.** **Synergies and Opportunities for SONG in the TESS Era [KnT]**
16:10 – 16:30 Beck, P. SONG and BRITTE - an opportunity of long-term simultaneous radial velocity and space photometric observing programs on the example of the red giant star Aldebaran [CT]
16:30 – 16:50 Schou, J. Improved analysis of SONG spectra? [CT]
- 16:50 – 17:30 COFFEE BREAK**
- 17:30 – 17:50 Houdek, G. Amplitude ratios and phase shifts [CT]
17:50 – 18:10 Barceló, S. The envelope of the power spectra of over a thousand delta Scuti stars [CT]
- 18:10 – 18:35** **Deng, L.** **The Chinese node [RC]**

CONFERENCE DINNER (20:30 - RESTAURANTE LA PROA)

Thursday, October 25th

Chair: S. Mathur

- 09:00 – 09:30** **Metcalf, T.** **The potential for observing stellar activity cycles with SONG [KnT]**
09:30 – 10:00 **White, T.** **Interferometry and Asteroseismology [KnT]**
10:00 – 10:20 Pollard, K. Synergies with SONG [CT]
10:20 – 10:40 Poretti, E. Science with high-resolution spectrographs at TNG [CT]
10:40 – 10:50 Zhang, C. Observations at Delingha [CT]
- 10:50 – 11:30 COFFEE BREAK**
- 11:30 – 11:50 Schroeder, K-P. A potential SONG-TIGER collaboration [CT]
11:50 – 12:10 Tautvaisiene, G. Possibilities of small-size telescopes in complementing results of space Missions [CT]
12:10 – 12:20 Chen, X. Optical--Mid-Infrared Period--Luminosity Relations for W Uma-type Contact Binaries Based on Gaia DR 1: 8% Distance Accuracy [CT]
- 12:20 – 12:50** **Korhonen, H.** **Imaging stellar surfaces: state-of-the-art and challenges [KnT]**
- 13:00 – 15:00 LUNCH**

SESSION 3: CHALLENGES, SYNERGIES AND FUTURE (cont.)

Chair: D. Stello

- 15:00 – 15:30 Bertello, L. The Concept of NSO SPRING [KnT]**
15:30 – 15:50 Martínez, M. J. The Sun's global magnetism with SONG [CT]
15:50 – 16:10 Elsworth, Y. Update on BiSON-Mini [CT]
- 16:10 – 16:40 Pallé, E. Exoplanets atmospheres with high resolution spectroscopy [KnT]**
- 16:40 – 17:30 COFFEE BREAK**

SESSION 4: ROUND TABLE and CONCLUSIONS

- 17:30 – 18:15 Round Table and Open Discussion (Chair: García, R.A)**
- 18:15 – 18:45 Kjeldsen, H. Conclusions and way forward [KnT]**

19:00 END OF THE SCIENTIFIC WORKSHOP

Friday, October 26th

BUSSINES MEETINGS

Friday Morning (10 – 13 h)

SONG – TAC (*Time Allocation Committee*). Chair. V. Antoci
SSC (*SONG Steering Committee*). Chair J. Christensen-Dalsgaard

Excursion to Observatorio del Teide

Friday Afternoon-Evening

Visit to Hertzprung SONG Telescope (and more)
Estimated bus departure just after lunch from San Blas Hotel