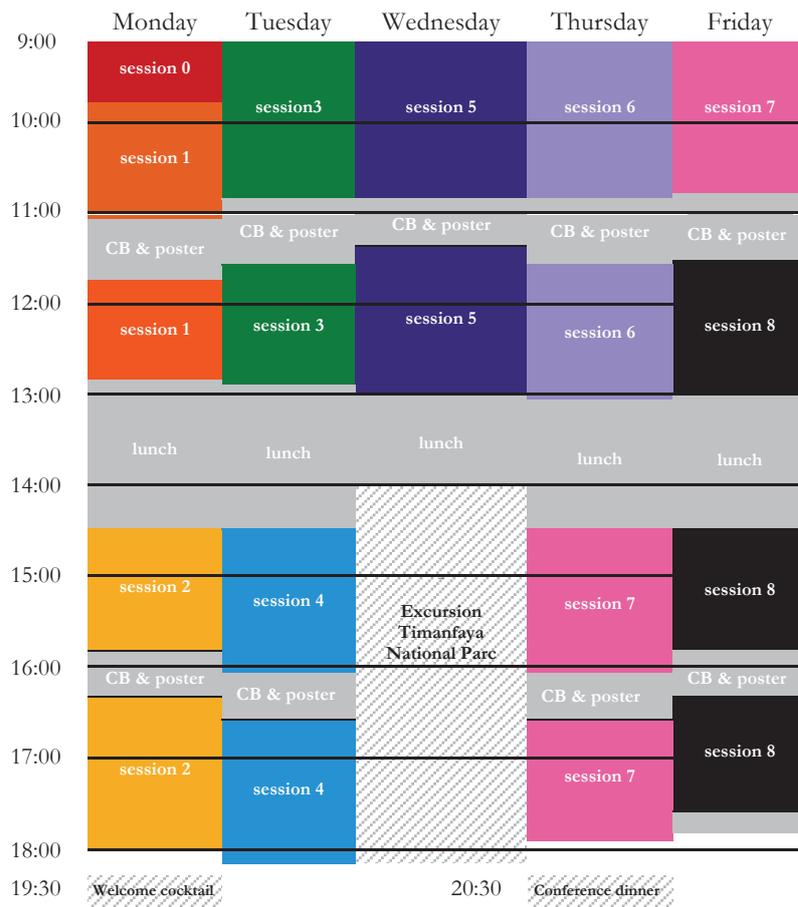


PROGRAM

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- SOLARNET
- Solar internal structure from helioseismology
- Solar cycle: convection, rotation, dynamo, flux emergence
- Theoretical radiative transfer and spectropolarimetry
- Photospheric dynamics and magnetism
- Chromospheric dynamics and magnetism
- Corona and transition region: dynamics, magnetic fields and heating mechanisms
- Energetic events, flares and CMEs, and space weather
- Upcoming telescopes and instruments

MONDAY, JAN 16th

09:00 – 09:15	Welcome	Elena Khomenko Marian Martínez
09:15 – 09:45	The SOLARNET project	Manuel Collados

Session 1: Solar internal structure from helioseismology**Chair: Elena Khomenko**

09:45 – 10:15	IR: Helioseismic probes of the solar interior	Anne-Marie Broomhall
10:15 – 10:35	ST: Data assimilation as a tool to better understand the solar magnetism	Laurent Jouvé
10:35 – 10:50	Halo formation in realistic 3D MHD simulations	Irina Thaler
10:50 – 11:05	3D hydrodynamical corrections for near surface effects on solar oscillations	Lionel Bigot

11:05 – 11:45 Coffee break and poster session

11:45 – 12:05	ST: Forward modeling for local solar seismology	Tobías Felipe
12:05 – 12:20	Formation of sunspots: theory and observations	Illa R. Losada
12:20 – 12:35	A new physical mechanism to explain meridional circulation's cyclic variations	Dário Passos
12:35 – 12:50	Deep meridional flow inversions with spherical born kernels and time-distance helioseismology	Vincent Böning

12:50 – 14:30 Lunch at the Arrecife Gran Hotel

MONDAY, JAN 16th

Session 2: Solar cycle: convection, rotation, dynamo, flux emergence

Chair: Ada Ortiz

14:30 – 15:00	IR: Differential rotation and convective dynamo in the solar convective envelope	Yuhong Fan
15:00 – 15:20	ST: Dynamo modes as a mechanism for long-term solar activity variations	Maarit Käpylä
15:20 – 15:35	Confinement of the solar tachocline subject to radiative spreading via a cyclic dynamo magnetic field	Roxane Barnabé
15:35 – 15:50	Understanding dynamo mechanisms and torsional oscillations from 3D convection simulations of the Sun	Jörn Warnecke

15:50 – 16:20 Coffee break and POSTER session

16:20 – 16:40	ST: Where are the solar magnetic poles?	Adur Pastor Yabar
16:40 – 17:00	ST: Measurement of the meridional flow: Current developments and results	Ariane Schäd
17:00 – 17:15	Variation of the photospheric temperature gradient with magnetic activity	Marianne Faurobert
17:15 – 17:30	A deep-seated mechanism for cycle-dependent sunspot group tilt angles	Emre Isik
17:30 – 17:45	Solar-like magnetic cycles in 3D turbulent global models of stars	Antoine Strugarek
17:45 – 18:00	Interpreting a millennium solar-like dynamo with the test-field method	Frederick Gent

19:30 Welcome cocktail

TUESDAY, JAN 17th**Session 3: Theoretical radiative transfer and spectropolarimetry**
Chair: Sarah Gibson

09:00 – 09:30	IR: Non-LTE chromospheric diagnostics and inversions	Jaime de la Cruz
09:30 – 09:50	ST: Sunrise II observations of emergence sites in a solar active region	Rebecca Centeno
09:50 – 10:05	Response functions for NLTE lines	Ivan Milic
10:05 – 10:20	Si I atomic model for NLTE spectropolarimetric diagnostics of the 1082.7 nm line	Natalia Shchukina
10:20 – 10:35	Non-LTE 3D radiative transfer with a Multigrid Solver	Johan Pires Bjørgen
10:35 – 10:50	Helium lines in the solar spectrum: spatial structure in He I 10830 and the anomalous intensity of the resonance lines	Jorrit Leenaarts

10:50 – 11:35 Coffee break and poster session

11:35 – 11:55	ST: Three-dimensional radiative transfer simulations of the scattering polarization	Jiri Stepan
11:55 – 12:10	Spatially resolved Stokes measurements in the Sr I (4607.3 Å) line with FSP at VTT/TESOS	Franziska Zeuner
12:10 – 12:25	The missing 'M' ingredient in 3D photospheric simulations for solar abundances	Damian Fabbian
12:25 – 12:40	A novel radiative transfer investigation of the magnetic micro-activity of the quiet Sun	Javier Trujillo Bueno
12:40 – 12:55	Chromospheric line formation of OI 7772	Hiva Pazira

12:55 – 14:30 Lunch at the Arrecife Gran Hotel

TUESDAY, JAN 17th

Session 4: Photospheric dynamics and magnetism

Chair: María Jesús Martínez González

14:30 – 15:00	IR: Measurements of photospheric magnetic fields	Andreas Lagg
15:00 – 15:20	ST: Emergence of granular-sized magnetic bubbles through the solar atmosphere	Ada Ortiz
15:20 – 15:35	Photospheric counter Evershed flows in the penumbra of sunspots	A. L. Siu-Tapia
15:35 – 15:50	Kinematics and magnetic properties of a light bridge in a decaying sunspot	Mariachiara Falco
15:50 – 16:05	Investigation of straylight in data from the GREGOR Infrared Spectrograph	Morten Franz

16:05 – 16:20 Coffee break and poster session

16:20 – 16:40	ST: New insights on penumbra formation	Nazaret Bello
16:40 – 16:55	Numerical simulations of the quiet-sun magnetic field: Beyond MHD	N. Vitas
16:55 – 17:10	Turbulent convection and the dynamic properties of photospheric magnetic fields in the quiet Sun	Fabio Giannattasio
17:10 – 17:25	Multiwavelength study of penumbral decay using GREGOR, VTT, NST, and Hinode	Meetu Verma
17:25 – 17:40	Long-period oscillations of active region patterns: least-square mapping on second-order curves	Gulsun Dumbadze
17:40 – 17:55	Flare-productive active regions: magnetic properties and evolutions	Shin Toriumi

WEDNESDAY, JAN 18th

Session 5: Chromospheric dynamics and magnetism

Chair: Natasha Shchukina

09:00 – 09:30	IR: Observations and diagnostics of the solar chromosphere	Rob Rutten
09:30 – 09:50	ST: Alfvén wave heating of the solar chromosphere	Tony Arber
09:50 – 10:05	Ellerman bombs in 1-D radiative hydrodynamics	Aaron Reid
10:05 – 10:20	Physical properties of a group of pores as derived from Ca II 854.2 nm observations and inversions	Christoph Kuckein
10:20 – 10:35	On the generation of solar spicules and Alfvén waves	Mats Carlsson
10:35 – 10:50	Slender Ca II H fibrils observed by SUNRISE 2	R. Gafeira

10:50 – 11:20 Coffee break and poster session

11:20 – 11:40	ST: 3D simulation of chromospheric jets with twisted magnetic field lines	Haruhisa Iijima
11:40 – 12:00	ST: IRIS diagnostic for lower chromospheric heating	Tiago Pereira
12:00 – 12:15	Structure of chromospheric magnetic field in solar active regions	Sanjay Gosain
12:15 – 12:30	Ellerman bomb emission features in He I D3 and He I 10830: observations and modelling	Tine Libbrecht
12:30 – 12:45	Formation of a stable penumbra in a region of flux emergence	Mariarita Murabito
12:45 – 13:00	Photospheric and chromospheric observations of dynamic features in an arch filament system	S. J. González Manrique

13:00 – 14:00 Lunch at the Arrecife Gran Hotel

14:00 – Excursion to the Timanfaya National Parc

THURSDAY, JAN 19th

Session 6: Corona and transition region: dynamics, magnetic fields and heating mechanisms

Chair: Consuelo Cid

09:00 – 09:30	IR: Dynamics and diagnostics of the solar corona: unchained magnetism	Sarah Gibson
09:30 – 09:50	ST: Nanoflare properties in the solar corona	Nicki Viall
09:50 – 10:05	IRIS and SDO observations of coronal heating associated with spicules	Ineke De Moortel
10:05 – 10:20	New insights on mass flows in and out of the solar transition region	Pia Zacharias
10:20 – 10:35	Nonlinear force-free coronal magnetic stereoscopy	Iulia Chifu
10:35 – 10:50	A global view of velocity fluctuations in the corona	Richard Morton
10:50 – 11:35 Coffee break and poster session		
11:35 – 12:05	IR: Heating of the solar corona	Iñigo Arregui
12:05 – 12:20	Formation and evolution of coronal rain observed by SDO/AIA on February 22, 2012	Zurab Vashalomidze
12:20 – 12:35	Estimation of coronal Solar rotation using 171Å Extreme UV images from SOHO	Shivam Raval
12:35 – 12:50	Bombs, jets and flares at the surface and lower atmosphere	Viggo Hansteen
12:50 – 13:05	Contribution of coupling of Alfvén and kink modes to coronal heating	Paolo Pagano

13:05 – 14:30 Lunch at the Arrecife Gran Hotel

THURSDAY, JAN 19th

Session 7: Energetic events, flares and CMEs, and space weather

Chair: Francesca Zuccarello

14:30 – 15:00	IR: Solar eruptions and energetic events	Astrid Veronig
15:00 – 15:20	ST: Magnetic reconnection in twisted magnetic fields in solar flares - heating, particle acceleration and observational signatures	Philippa K. Browning
15:20 – 15:35	Properties of quasi-periodic pulsations in solar flares from a single active region	Chloe E. Pugh
15:35 – 15:50	Could the Hale Sector Boundary help us to anticipate solar flares?	K. Loumou
15:50 – 16:05	Relationship of EIT waves phenomena with Coronal Mass Ejections	V. K. Verma

16:05 – 16:35 Coffee break and poster session

16:35 – 17:05	IR: Solar energetic events and space weather	Consuelo Cid
17:05 – 17:25	ST: Coronal Mass Ejections and Geomagnetic Storms	Marilena Mierla
17:25 – 17:40	Radiative energy budget of solar flares and its scaling with the soft X-ray flare size	Matthieu Kretzschmar
17:40 – 17:55	Examining the drag force on coronal mass ejections	Chia-Hsien Lin
17:55 – 17:55	The Solar event of June 21, 2015: comprehensive Sun-to-Earth analysis	Luca Giovannelli

20:30 Conference dinner at “Los Jameos del Agua”

FRIDAY, JAN 20th

Session 7: Energetic events, flares and CMEs, and space weather

Chair: Ineke de Moortel

09:00 – 09:15	Propagation of filament and hot plasma through solar atmosphere as observed with ground based and space instruments	A. Kucera
09:15 – 09:30	An alternative cellular avalanche model based on maximum release of energy during solar flares	Nastaran Farhang
09:30 – 09:45	The role of erupting sigmoid in triggering a flare with double set of ribbons	Navin Chandra Joshi
09:45- 10:00	GONG Catalog of large-amplitude oscillations	Manuel Luna
10:00 – 10:15	Coronal loop footpoints threaded with small-scale mixed polarity surface magnetic fields	L. P. Chitta
10:15 – 10:30	Numerical simulation of cool ascending flows in chromosphere	Tatsuki Nakamura
10:30 – 10:45	H α and H β emission in a C3.3 solar flare: comparison between observations and simulations	Vincenzo Capparelli

10:45 – 11:30 Coffee break and poster session

Session 8: Upcoming telescopes and instruments

Chair: Nazaret Bello González

11:30 – 12:00	IR: Science with European Solar Telescope	Sarah Matthews
12:00 – 12:20	KT: A science driven update to the Daniel K Inouye Solar Telescope	Valentín Martínez
12:20 – 12:40	KT: Solar Orbiter mission	J. C. del Toro
12:40 – 13:00	KT: Sunrise III project	H.-P. Doerr

13:00 – 14:30 Lunch at the Arrecife Gran Hotel

FRIDAY, JAN 20th

Session 8: Upcoming telescopes and instruments

Chair: Rebeca Centeno Elliott

14:30 – 14:50	KT: Results and future of CLASP project	Masahito Kubo
14:50 – 15:05	Prototype characterization and future development of the “Fast Solar Polarimeter”	F. A. Iglesias
15:05 – 15:20	The Heat Rejecter for the GREGOR telescope: a prototype for the European Solar Telescope	F. Berrilli
15:20 – 15:35	SST/CHROMIS: a new window to the solar chromosphere	Goran Scharmer
15:35 – 15:50	Observations of absolute convective blue-shifts with the Laser Absolute Reference Spectrograph at the VTT	Johannes Löhner-Böttcher

15:50 – 16:20 Coffee break and poster session

16:20 – 16:35	How does an adaptive optics system work in polarized light?	Marco Stangalini
16:35 – 16:50	The Solar Physics Research Integrated Network Group – SPRING	Markus Roth
16:50 – 17:05	First tests of the Integral Field Unit for GRIS@GREGOR	Andrés Asensio Ramos
17:05 – 17:20	Image restoration of polarimetric slit spectra	Michiel van Noort
17:20 – 17:35	The SOLARNET Solar Virtual Observatory prototype	R. Vansintjan

17:35 – 17:45 **Concluding remarks**

20:00 **End of the Conference**