This project is supported by the European Commission's FP7 Capacities Programme for the period April 2013 - March 2017 under the Grant Agreement number 312495.
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3rd SOLARNET Workshop
"Polarization in the Sun, the Solar System, and Beyond"
Granada, 25–28 May 2015

PRESENTATIONS

Monday 25th of May

09:00-09:15 Welcome address - IAA Director

Keynote Lecture

09:15-10:00 Polarization in astrophysics - a personal selection - Sami K. Solanki

Session 1: Instrumentation (ground, space, laboratory)

10:00-10:35 Solar polarimetry from space (Invited review) - Ted Tarbell

10:35-10:55 The Large Aperture Solar Optical Telescope (SUVIT) for the Solar-C mission - Kiyoshi Ichimoto, Solar-C Working Group

11:30-12:05 Solar polarimetry from the ground (Invited review) - Manuel Collados

12:05-12:25 Polarimeter for Multi Application Solar Telescope (MAST) at Udaipur Solar Observatory -

Alok Ranjan Tiwary, Shibu K. Mathew

12:25-12:45 Long-Term Variability of the Polarization Response Matrix of the Hinode Spectro-Polarimeter - Bruce W. Lites

12:45-13:05 Error analysis and optimization of polarization calibration optics in solar telescope - Junfeng Hou, Dongguang Wang, Yuanyong Deng

15:00-15:35 Instruments for Night-Time Polarimetry (Invited review) - Christoph Keller

15:35-15:55 High-accuracy spectropolarimetry with spectral polarization modulation - Frans Snik et al.

15:55-16:30 Laboratory studies of light scattered by macroscopic dust particles at visible wavelengths (Invited review) - Olga Muñoz

Session 2: Diagnostics and Interpretation

17:00-17:35 Multiple scattering in particulate media (Invited review) - K. Muinonen, et al.

17:35-18:10 Polarized radiative transfer in solar MHD simulations (Invited review) - H. Uitenbroek

Tuesday 26th of May

Session 2: Diagnostics and Interpretation

09:00-09:35 Solar inversion codes (Invited review) – J. C. del Toro Iniesta

09:35-10:10 Hanle effect diagnostics of the solar atmosphere (Invited review) - Jiří Štěpán

10:10-10:45 A Possible Resolution of the Paradox of the Enigmatic D1 Line Polarization - Javier Trujillo Bueno, Luca Belluzzi

10:45-11:05 Stellar inversion codes (Invited review) - Thorsten A. Carroll

Session 4: Solar Chromosphere, Transition Region and Corona

11:35-12:10 Spectropolarimetry of the solar chromosphere (Invited review) - Andreas Lagg, GREGOR GRIS Team

12:10-12:45 Magnetic Fields in Solar Prominences (Invited review) - Arturo López Ariste

12:45-13:05 Non-LTE chromospheric diagnostics and inversions in flux-emerging regions - Jaime de la Cruz Rodriguez, Viggo Hansteen, Luis Bellot Rubio, Ada Ortiz

15:00-15:20 Design and Status Updates of a Polarimeter for Chromospheric Measurements with SOLIS/VSM - Sanjay Gosain, Jack Harvey

15:20-15:40 Polarimetry of the X1 flare on March 29, 2014 - Lucia Kleint, Phil Judge

15:40-16:00 Chromospheric Dichroism in Oxygen Photospheric Lines - Tanausú del Pino Alemán, Javier Trujillo Bueno, Rafael Manso Sainz

16:00-16:20 Spectra of Helium D3 observed with SST/TRIPPEL - Tine Libbrecht, Dan Kiselman, Jaime de la Cruz Rodriguez

Session 5: Polarization in the Solar System and Exoplanetary Systems

17:00-17:35 Polarization of the Jovian planets (Invited review) - Robert West

17:35-18:55 Optical linear polarimetric observations of Jupiter and Saturn using a Wedged Double Wollaston - Ricardo Hueso et al.

18:55-18:15 Towards measuring the magnetic field of Mercury with spectropolarimetry - Arturo López Ariste

Wednesday 27th of May

Session 5: Polarization in the Solar System and Exoplanetary Systems

09:00-09:35 Polarization of the small bodies of the solar system (Invited review) - S. Bagnulo, Alberto Cellino, Ludmilla Kolokolova, Gian Paolo Tozzi

09:35-09:55 Some interesting features of light scattering from grains to regolith - Gorden Videen, Karri Muinonen, Evgenij Zubko, Yuriy Shkuratov

09:55-10:15 Experimental scattering matrices of lunar dust simulant at 488 nm and 520 nm - Jesús Escobar et al.

10:15-10:50 Characterizing exoplanets through polarimetry (Invited review) - D. Stam

10:50-11:10 Polarization in exoplanetary systems caused by transit, grazing transit and starspot - Nadiia M. Kostogryz, Taras M. Yakobchuk, Svetlana V. Berdyugina

Session 3: Solar Photosphere

11:40-12:15 Polar Fields of the Sun (Invited review) - Gordon Petrie

12:15-12:50 Quiet Sun Magnetic Fields (Invited review) - David Orozco Suárez

12:50-13:10 Flux appearance and disappearance in the solar internetwork - Milan Gošić, Luis Bellot Rubio

15:00-15:20 The evolution of individual and groups of flux tubes as seen by IMaX/Sunrise - Iker S. Requerey et al.

15:20-15:40 Small-scale intergranular upflows as seen by Sunrise/IMaX: work in progress - Dominik Utz, Jose Carlos del Toro Iniesta, Luis Bellot Rubio, Stefan Thonhofer

15:40-16:00 Multi-wavelength observations of magnetic upflows in the solar atmosphere - Shahin Jafarzadeh, Luc Rouppe van der Voort, Jaime de la Cruz Rodriguez

16:00-16:20 Photospheric Flow Field Related to the Evolution of the Sun`s Polar Magnetic Patches Observed by Hinode SOT - Anjali John Kaithakkal et al.

Poster session

17:00-18:30 P.1. Performance Measurement of Liquid Crystal Variable Retarder - Dongguang Wang et al.

P.2. Long-Term Variability of the Polarization Response Matrix of the Hinode Spectro-Polarimeter - Bruce W. Lites

P.3 Solar Physics Research Integrated Network Group (SPRING): A Next Generation Ground-based Synoptic Network - Sanjay Gosain, Markus Roth, Frank Hill, Michael Thompson

P.4 Blue shifted Stokes V profiles in the quiet Sun - Christoph Kiess

P.5 Modeling the polarization of strong resonance lines in the general Hanle-Zeeman regime - Ernest Alsina Ballester, Luca Belluzzi, Javier Trujillo Bueno

P.6 Peacock jets above a light bridge of a sunspot - Carolina Robustini, Jorrit Leenaarts, Jaime De La Cruz Rodriguez

Thursday 28th of May

Session 6: Stellar Magnetic Fields

09:00-09:35 Stellar surface magnetic fields across the HR diagram (Invited review) - Oleg Kochukhov

09:35-10:10 Magnetic fields of massive stars (Invited review) - Gregg Wade

10:10-10:45 New insights into the origin and strength of magnetic fields in OB-type stars (Invited review) - Swetlana Hubrig et al.

10:45-11:05 The origin and role of magnetic fields in Herbig Ae/Be stars – a key to understand intermediate-mass star formation - Markus Schoeller

Session 3: Solar photosphere

11:35-11:55 The distinct magnetic property of the penumbra - Rolf Schlichenmaier

11:55-12:15 Penumbral return flux measured by spectral lines in the visible and infrared - Morten Franz et al.

12:15-12:35 Supersonic Evershed downflows - Sara Esteban Pozuelo, Luis Bellot Rubio

12:35-12:55 Formation of a solar Halpha filament from penumbra-like structures - David Buehler, Andreas Lagg, Michiel van Noort, Sami K. Solanki

15:00-15:20 A new vision of the line ratio method - Marianne Faurobert, Gilbert Ricort

15:20-15:40 Improved magnetogram calibration of Solar Magnetic Field Telescope and its comparison with the Helioseismic and Magnetic Imager -Xianyong Bai et al.

15:40-16:00 Vector magnetic field changes during flares using SDO/HMI data - Sebastián Castellanos-Durán, Lucia Kleint, Benjamín Calvo-Mozo

16:00-16:20 Can Flux Cancellation Build-Up Magnetic Flux Ropes? - Stephanie Yardley, Lucie Green, David Williams, Lidia van Driel-Gesztelyi

16:20-16:40 GUI for LCT analysis - Jose Iván Campos Rozo, Santiago Vargas Domínguez