

Scientific sessions

- The Solar Photosphere - Theory and Observations
- The Chromosphere - Link between the Photosphere and Corona
- Eruptive Processes, CME's and Energetic Particles
- Solar-terrestrial Connection and the Heliosphere
- Observing Techniques, Data Analysis and Archives

Preliminary programme

Sunday, September 2, 2012

18:00 Registration

Monday, September 3, 2012

8:00 Registration

8:30 Opening

The solar photosphere – theory and observations I chairperson: E.W. Cliver

9:00 Bur ~~9:00~~: Regularities in the distribution of solar magnetic fields (

9:30 Utz, J. Jurcak, L. Bellot-Rubiol, S. Thonhofer, A. Hanslmeier, A. Veronig, R. Muller, B. Lemmerer

9:50 Balogh, Bar et al.: Properties of a decaying sunspot

10:10 Sobotka, M. Svanda, J. Jurcak, D. Del Moro: Atmosphere above a light bridge

10:30 - 11:10 Review: Complexes of active regions as basic source SPE with large and extreme particle fl

11:00 Coffee break

The solar photosphere – theory and observations II chairperson: M. Sobotka

11:30 Kor ~~11:30~~: T. Baranyi, A. Ludmany: Study of sunspot group morphological variations leading to fla

11:50 Lemmerer, D. Utz, A. Hanslmeier, H. Grimm-Stehle, A. Veronig, S. Thonhofer, H. Muthsam

16:00 COMESOP* activities

The solar photosphere – theory and observations III chairperson: A. Ludmany

17:00 W. Cliver and Svalgaard: Reconciling International and Group sunspot numbers (

17:30 Georgiev, Y. Nagovitsyn, B. Kirov: Long-term variations in sunspot magnetic fields

17:50 Svanda: An average supergranule: much larger vertical flows than expected

18:10 Gyenge, T. Baranyi, A. Ludmany: Variations of non-axisymmetric activity

19:00 HERCOS** activities

20:00 Welcome reception

Tuesday, September 4, 2012

The chromosphere – link between the photosphere and corona I 10:00 Chairperson: B. Vršnak

- 9:00 Benz, P. Heinzel, E.H. Avrett, M. Herlender: Modelling of Ellerman bombs based on spectropolarimetry
9:20 Kotrč, M. Barta, J.A. Kupryakov: On a signature of a flux-rope formation by spinning motions in the solar atmosphere
9:40 N. S. Solntseva and P.A. Bespalov: Large-scale perturbations near the solar atmosphere transition region
10:00 D. Aulanier, B. Schmieder, M. Zapior, P. Heinzel: Magnetic structure and topology of quiet solar regions
10:20 Kotrč, G. Aulanier, P. Gasmasry, J. Rybak, A. Kučera: Search for Alfvén waves and shocks in the solar chromosphere
10:40 P. Rudawy: Estimation of magnetic field in solar prominences based on spatial motions
11:00 coffee break

The chromosphere – link between the photosphere and corona II 10:30 chairperson: A. Kučera

- 11:30 Schwadron, P. Heinzel, P. Kotrč, Yu. A. Kupryakov: The total mass of several prominences estimated from their sizes
11:50 D. Zapior, P. Kotrč: Simultaneous observations of solar prominence oscillations using two telephoto cameras
12:10 B. Steslicka, S. Gibson, Y. Fan, C. Bethge, L. Rachmeler, B. Forland: Twisted bunny heads effect
12:30 W. Stellmacher, R. Ramelli, M. Bianda: The hot skin of solar prominences
12:50 13:10 Curdt, H. Tian: Explosive Events - Swirling Chromospheric Jets

16:00 HERCOS activities

Observing techniques, data analysis and archives I 10:00-11:00 chairperson: P. Kotrč

- 17:00 Bráža, A. Benz, M. Shimojo, M. Karlicky, L. Testi, R. Mauersberger, A. Hales, M. Temmer: Solar activity monitoring with PROBA2/LASCO
17:20 E. Danz, M. Dominique, M. Kretzschmar: Two years of solar observations with PROBA2/LASCO
17:40 Hejčík, S. Gunar, A. Berlicky, N. Labrosse, S. Jejčík: Use of a new generation of space-born coronagraphs
18:00 N. Zaitsev, F. Auchere, S. Parenti, and the SIGMA consortium: SIGMA: a new space mission to study the Sun-Earth connection
18:20 Györgyi, A robust model for determining the solar limb

Wednesday, September 5, 2012

Eruptive processes, CMEs and energetic particles I 10:00 chairperson: M. Karlicky

- 9:00 Ya. Zlotnik, V. Zaitsev, A.T. Altynsev: Polarization of zebra pattern in solar radio emission (radio polarimetry)
9:30 K. Jirička, M. Barta, K. Jirička: Fragmented reconnection and narrowband decimetric spikes (radio polarimetry)
10:00 S. Kashapova, L.K. Kashapova: Using parametric diagrams constructed from microwave data for studying the solar flares
10:20 A. Zhdanov, L.K. Kashapova, V.G. Zandanov: Quasi-periodic radio pulsations in the solar flare (radio polarimetry)
10:40 M. Klein, S. Samwel, G. Trottet: Solar energetic particles and parent solar activity during flares
11:00 coffee break

Eruptive processes, CMEs and energetic particles II 10:30 chairperson: E.Ya. Zlotnik

- 11:30 M. Yasnov, T.I. Kaltman, L. Yasnov: The properties of the microwave source located above the耀斑
11:50 T. Mrozek, S. Kolomanski, A. Netzel: HXR sources during the failed eruptions of filaments: observational results
12:10 M. K. Mrozek, et. al.: Magnetic “reconnection” in the solar corona
12:30 T. Mrozek, S. Kolomanski, T. Mrozek: Loop-top sources of flares-squeezing information from RHESSI and SDI

Eruptive processes, CMEs and energetic particles III 11:00-12:00 chairperson: A. Veronig

- 16:00 Sylwester, J. Sylwester, M. Siarkowski, T. Mrozek, K.J.H. Phillips: Physical characteristics of solar flares
16:20 Sylwester, B. Sylwester, A. Kepa: Review of RESIK X-ray spectra database
16:40 Waltham, G. Mann; The energy budget of solar flares derived from X-ray spectroscopy and imaging
17:00 V. Prozovetsky, A.A. Kochanov: Closed magnetic flux at coronal holes boundaries
17:20 Dzitacova, M. Karlicky, J. Dudik: Electron distributions and the soft-x ray line intensities

18:00 Visit to the Observatory

Thursday, September 6, 2012

Eruptive processes, CMEs and energetic particles IV

- Chairperson: J. Sylwester
9:00 Vašáková, M. Karlicky) Z. Moravec, J. Kashapova: The thick target model and its modifications (IP)
9:30 K. Kasapova, G.V. Rudenko, S.K. Tokhchukova, V.M. Bogod, A.A. Muratov: On the possible mechanisms of CME initiation
9:50 A. Veronig, P. Gomory, I. Kienreich, N. Muhr, B. Vršnak, M. Temmer, H.P. Warren: Plasma diagnostics of CMEs
10:10 Lytovilov: Magnetic structure of Coronal Mass Ejections
10:30 Rüdiger, M. Temmer, C. Moestl, A. Veronig, N. Lugaz, U. Moestl: Assessing a new method for determining CME properties
10:50 1:10 M. Temmer, T. Rollet, C. Moestl, B. Vršnak, A. Veronig: Propagation of CMEs in IP space
11:10ff et 1b40ak

Eruptive processes, CMEs and energetic particles V

- chairperson: A. Warmuth
11:40 Magdalenić, C. Marque, M. Mierla, L. Rodgriguez, A. Zhukov: Tracking the CME-driven shock wave
12:00 1:20 Safari: An automatic detection method for extreme ultraviolet mini CMEs
12:20 Beliajev, Temmer, A. Vourlidas, A. Veronig: CME kinematics and “true” mass evolutions
12:40 Fainstra, V.G., Egorov Ya.I.: Study of CME properties with using AIA/SDO and SWAP/PROBA2 observations
13:00 13:20 Vybornov, M. Livshits, L. Kashapova: The observational effects from large flares on the Earth

16:00 HERCOS activities

Eruptive processes, CMEs and energetic particles VI

- chairperson: P. Heinzel
17:00 Tomczak: Two solar flares that became X-ray plasma ejections
17:20 Chmielewska, M. Tomczak, M. Mrozek: Simultaneous Yohkoh/SXT and TRACE observations of solar flares
17:40 Mrozek, J. Kasapova, M. Varady, M. Karlicky: Formation of hydrogen Balmer lines in a twisted magnetic field
18:00 Moes, M. Temmer, A. Veronig: Observations and preliminary MHD simulations of the Kelvin-Helmholtz instability
18:20 Gibson, J. Raymond, A. Ciaravella, R. Suleiman, Y.-K. Ko: UVCS/SoHO catalog of CMEs from 1996 to 2001
18:40 Luh, Vrsnak, T. Zic, I.W. Kienreich, N. Muhr, M. Temmer, A.M. Veronig: Formation and evolution of CMEs
19:00 COMESEP activities

Friday, September 7, 2012

Solar – terrestrial connections and the heliosphere II

- chairperson: A. Hanslmeier
9:00 N. Nikolaeva, Yu. I. Yermolaev, I.G. Lodkina: The development of magnetic storms in dependence on the solar activity
9:20 I. Yermolaev, N.S. Nikolaeva, I.G. Lodkina, M.Y. Yermolaev: Solar and interplanetary drivers of geomagnetic activity
9:40 Đurićović et al.: Forecasting of geomagnetic activity caused by Coronal Mass Ejections
10:00 M. Mrozek, O.V. Kozyreva : Outer Earth's radiation belt electrons and ULF-activity dynamics
10:20 Helio, N. Dresing, W. Droege, R. Gomez-Herrero, K. Herbst, Y. Kartavykh, A. Klassen, J. Laberg: Effects of hysteresis between maximum CME speed index and geomagnetic activity index
11:00ff et 1b30ak

Solar- terrestrial connections and the heliosphere III chairperson: A. Ozguc

11:30 Gr1ess50 A, Veronig, M. Temmer, D. Odstrcil: Comparison of MHD simulations of the solar wind
11:50 2XCC. Abrevaya, A. Hanslmeier, M. Leitzinger, P. Odert, A. Buccino, P. Mauas: UV radiation of
12:10 Galovic: Testing a link between cosmic rays, solar irradiance and cloudiness over short times

16:00 CoMP activities

17:00 HEROES activities

21:00 wine and cheese in a Dalmatian konoba

*COronal Mass Ejections and Study of Energetic Particles is an EC FP7 project

** Environment for Human Exploration and RObotic Experimentation in Space is an EC FP7 project

List of Posters

- Abbas Abedini: Slow Mode Oscillations of Solar Coronal loops
- Pavel Ambroz: Horizontal velocities in solar filament channel
- Peter Gomory: Chromospheric evidences of a small-scale loop emergence
- Bernd Heber: Simultaneous Analysis of Recurrent Jovian Electron Increases and Galactic Cosmic Ray Decreases
- Boian Kirov: 200-year cycle in solar asymmetry
- Pavel Kotrc: On the flat-shape emission in the post-eruptive phase of the solar flare on 7th June 2012
- Ales Kucera: Coronal Multi-channel Polarimeter (CoMP-S) at Lomnicki Stit Observatory in Slovakia
- Salvatore Mancuso: Constraining the radius of the source surface in PFSS models through Faraday rotation observations
- Zdenek Moravec: Formation of hydrogen Balmer lines in a twisted flare loop
- Judit Murakozky: Study of the decay of sunspots and sunspot groups
- Oana Stere: Correlation between ICME parameters and the geomagnetic storms
- Elvira Suyunova: On High Precision Imaging Linear Polarimetry in Prominences
- Stefan Thonhofer: Creating 3-dimensional Models of the Photosphere using the SIR Code for the investigation of small-scale magnetic fields - First results and Outlook
- Lidia vanDriel-Gesztelyi: Observations and modeling of magnetic reconnection driven by CME expansion
- Lidia vanDriel-Gesztelyi: Plasma outflows from active regions: are they sources of the slow solar wind?
- Alina Vishneva: Research of time-dependent 3-D parameters of halo coronal mass ejections with various velocities

