

X<sup>th</sup> Hvar Astrophysical Colloquium  
6 – 10 September 2010 Hvar, Croatia

Programme

Monday, September 6, 2010

8:30 – 9:00	Registration
<i>Dynamics of the Photosphere I</i> chairperson: <b>K. Petrovay</b>	
9:00 – 9:20	Opening Addresses
9:20 – 10:00	J.O. Stenflo: Magnetic fields on the quiet Sun ( <i>Review</i> )
10:00 – 10:30	D. Utz, A. Hanslmeier, A. Veronig, O. Kühner, R. Muller, and H. Muthsam: Magnetic energy estimation for small scale magnetic fields by observation of magnetic bright points
10:30 – 11:00	O. Kühner, D. Utz, A. Hanslmeier, A. Veronig, R. Muller, and H. Muthsam: Multiwavelength investigations of magnetic bright points and their morphologic appearance with height
11:00 – 11:30	coffee – break
<i>Dynamics of the Photosphere II</i> chairperson: <b>J.O. Stenflo</b>	
11:30 – 12:00	K. Petrovay and M. Balázs : The Waldmeier effect in Greenwich facular areas ( <i>Invited talk</i> )
12:00 – 12:30	K.Georgieva: Why the sunspot cycle is double peaked
12:30 – 13:00	R. Brajša, A. Hanslmeier, G. Verbanac, H. Wöhl, M. Roth, and L. Svalgaard: A prediction for the 24th solar cycle 20 months after the minimum of solar activity
<i>Special Session I</i>	
16:00 – 17:00	SOTERIA activities
<i>Dynamics of the Photosphere III</i> chairperson: <b>A. Özgüç</b>	
17:00 – 17:30	R. Jurdana-Šepić, R. Brajša, H. Wöhl, A. Hanslmeier, and S. F. Gissot: A relationship between solar rotation and activity in the period 1998-2006
17:30 – 18:00	I. Poljančić, R. Brajša, D. Hržina, H. Wöhl, A. Hanslmeier, W. Pötzi, T. Baranyi, A. Özgüç, and J. Singh: Differences in heliographic positions and rotation velocities of sunspot groups from various observatories
<i>Poster Session</i> chairperson: <b>R. Brajša</b>	
18:00 – 19:00	Poster presentations

Tuesday, September 7, 2010

<i>Energetic Particles I</i> chairperson: <b>E. Zlotnik</b>	
9:00 – 9:40	Arnold O. Benz: Radio Emission and X-rays of Solar Flares Distant Relatives? ( <i>Review</i> )
9:40 – 10:10	N. Gopalswamy and P. Makela: Low-frequency type III bursts and solar energetic particle events
10:10 – 10:40	O.N. Savina and P.A. Bupalov: Ion-acoustic instability and anomalous thermal conductivity in the Solar transition region
10:40 – 11:10	M. Varady, J. Kasparova, Z. Moravec, M. Karlicky and P. Heinzel: Formation of Balmer lines in impulsively heated flare atmosphere by neutral beams

11:10 – 11:30	coffee – break
<i>Energetic Particles II</i> chairperson: <b>W. Curdt</b>	
11:30 – 12:10	E.W. Cliver and G.J.D. Petrie: Sudden Changes in the Longitudinal Magnetic Fields of Active Regions and Particle Acceleration in Solar Flares ( <i>Review</i> )
12:10 – 12:40	L.K. Kashapova, I.Yu. Grigoryeva, M.A. Livshits and V.N. Borovik: A study of plasma parameters before the CME/flare event on 6 July 2006 : microwave vs HXR observations
12:40 – 13:10	L.K. Kashapova and T.S. Sizykh: Study of acceleration processes of the 14th July 2005 flare series occurred in AR 10786
<i>Special Session II</i> chairperson: <b>A.O. Benz</b>	
17:00 – 18:00	Current and Future Space Probes for Solar Observations
18:00 – 19:00	SOTERIA activities

Wednesday, September 8, 2010

<i>Physical Processes in the Chromosphere and Corona I</i> chairperson: <b>B. Vršnak</b>	
9:00 – 9:30	V. Ishkov: The dynamic phenomena: large solar flare events ( <i>Invited talk</i> )
9:30 – 10:00	J. K. Thalmann, T. Wiegmann and B. Inhester: Magnetic helicity in solar active regions
10:00 – 10:30	T. Mrozek, S. Kolomanski, U. Bał-Stęślička: RHESSI investigation of HXR coronal sources during decay phase of solar flares: I. observations
10:30 – 11:00	S. Kolomanski, T. Mrozek, U. Bał-Stęślička: RHESSI investigation of HXR coronal sources during decay phase of solar flares: II. energy balance
11:00 – 11:30	coffee – break
<i>Physical Processes in the Chromosphere and Corona II</i> chairperson: <b>M. Tomczak</b>	
11:30 – 12:00	L.K. Kashapova, P. Kotrč and Yu.A. Kupryakov: On the pre-CME phase of the 18 March 2003 solar flare
12:00 – 12:30	U. Bał-Stęślička, T. Mrozek and S. Kolomanski: A survey of CMEs associated with slow rise-phase flares
12:30 – 13:00	A.M. Veronig, M. Temmer, I. Kienreich, N. Muhr, B. Vršnak, B. Bein and S. Berkebile-Stoiser: The relation between impulsive CME dynamics and coronal shock waves
13:00 – 13:30	B. Bein, S. Berkebile-Stoiser, A. Veronig and M. Temmer: Statistics of CME Kinematics and Solar Flare Energetics
<i>Special Session III</i>	
16:00 – 17:00	SOTERIA activities

<i>Physical Processes in the Chromosphere and Corona III</i> chairperson: <b>N. Gopalswamy</b>	
17:00 – 17:30	N. Muhr, I.W. Kienreich, A. Veronig, M. Temmer and B. Vršnak: Kinematical and structural analysis of global disturbances in the solar corona as observed by the STEREO spacecraft
17:30 – 18:00	I.W. Kienreich, A.M. Veronig, N. Muhr, M. Temmer and B. Vršnak: Case-study of homologous EIT waves observed by STEREO/EUVI
18:00 – 18:30	M. Tomczak and E. Chmielewska: X-ray Plasma Ejections and their association with other solar-activity phenomena
18:30 – 19:00	P. Schwartz, S. Gunar and P. Heinzel: Systematic study of behaviour of the 2D multi-thread model of prominence

Thursday, September 9, 2010

*Physical Processes in the Chromosphere and Corona IV* chairperson: **E. Cliver**

9:00 – 9:30	E.Ya. Zlotnik, V.V. Zaitsev and H. Aurass: Radio signature of coronal magnetic loop oscillations (zebra pattern wave-like frequency drift) ( <i>Invited talk</i> )
9:30 – 10:00	M. Zapiór and P. Kotrč: Oscillations of prominences observed by MSDP and HSFA
10:00 – 10:30	J. Sylwester, B. Sylwester and K.J.H. Phillips: Determinations of elemental abundances and properties of coronal plasmas
10:30 – 11:00	B. Sylwester, J. Sylwester, M. Siarkowski and S. Kuzin: Physical conditions of AR 11024 plasma based on SphinX and the other data
11:00 – 11:30	coffee – break

*Physical Processes in the Chromosphere and Corona V* chairperson: **V. Ishkov**

11:30 – 12:00	Werner Curdt: The coronal convection ( <i>Invited talk</i> )
12:00 – 12:30	T. Rotter, A. Veronig, M. Temmer and B. Vršnak: Detection of coronal holes in SoHO EIT images.
12:30 – 13:00	V. Slemzin: Coronal rays as indicators of the solar wind streams from active regions
13:00 – 13:30	J. Skala, M. Barta and M. Varady: Advanced MHD modeling of plasma processes in solar physics

*Observing Techniques and Data Archives* chairperson: **P. Kotrč**

16:30 – 17:00	M. Klvaňa, M. Sobotka, J. Zeman, Z. Melich, Z. Rail, M. Peca: Full-disc telescope for EST
17:00 – 17:30	W. Hirtenfellner, W. Pötzi, M. Temmer, H. Freislich, A.M. Veronig and A. Hanslmeier: Implementation of a Calcium telescope at Kanzelhöhe Observatory
17:30 – 18:00	Susanna Tokhchukova: Presentation of the RATAN-600 solar data for solar community.
18:00 – 18:30	K. Jiříčka and M. Karlický: Fine structures of radio bursts observed by the modernized Ondrejov radio spectrograph during the February 12, 2010 flare.
18:30 – 19:00	D.A. Zhdanov and V.G. Zandanov: A broadband spectrometer for microwave radio burst observations: first result
21:00 –	Wine and cheese in a Dalmatian konoba

Friday, September 10, 2010

*Heliosphere and Terrestrial Effects I* chairperson: **J. Sylwester**

9:00 – 9:40	John Richardson: The Effects of the Active Sun on the Outer Heliosphere ( <i>Review</i> )
9:40 – 10:10	B. Heber, N. Dresing, R. Gomez-Herrero, A. Klassen, R. Mueller-Mellin and W. Droege: STEREO/SEPT observations of solar energetic particle events during the rising phase of solar cycle 24 ( <i>Invited talk</i> )
10:10 – 10:40	M. Temmer, C. Möstl, A. Veronig, O. Flor and T. Rollett: Tracking CMEs from Sun to Earth
10:40 – 11:10	I.E. Dammasch et al.: Solar Irradiance Observations with LYRA on PROBA2
11:10 – 11:30	coffee – break

*Heliosphere and Terrestrial Effects II* chairperson: **A. Veronig**

11:30 – 12:00	Olesya Yakovchouk: Some Physical Properties and Statistics of the Most Powerful Perturbations on the Sun and in the Heliosphere
12:00 – 12:30	A. Kilcik, A. Özgüç, J-P. Rozelot: Latitude Dependency of the Sun-Climate Relation for the Eastern Europe and Middle-East
12:30 – 13:00	M. Dumbović, B. Vršnak, J. Čalogović and M. Karlica: Cosmic Ray modulation by Solar Wind Disturbances