

**XIII Hvar Astrophysical Colloquium  
22 – 26 September 2014 Hvar, Croatia**

**Programme**

Monday, September 22, 2014

8:00 – 8:30	Registration
8:30 – 9:00	Opening Addresses
9:00 – 9:20	R. Brajša, A. Hanslmeier: In Memoriam Vladimir Ruždjak 1947 - 2013

*Global Sun and Solar Cycle I* chairperson: **E.W. Cliver**

9:20 – 10:00	R. Brajša, D. Sudar, I. Skokić, S. Saar: Solar velocity field determined tracking coronal bright points ( <i>Invited</i> )
10:00 – 10:30	J. Muraközy: Extended study of the solar hemispheric asymmetry
10:30 – 11:00	B. Lemmerer, D. Utz, A. Hanslmeier, A. Veronig, H. Muthsam, S. Thonhofer, I. Piantchitsch: Tracking the evolution of convective patterns

11:00 – 11:30	coffee – break
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*Global Sun and Solar Cycle II* chairperson: **R. Brajša**

11:30 – 12:10	A. Hanslmeier, B. Lemmerer, R. Muller: Fractal Analysis of solar Granulation over a solar activity cycle ( <i>Invited</i> )
12:10 – 12:40	D. Utz, J.C. del Toro Iniesta, L.R. Bellot Rubio, J. Jurcak, M. Barta, S. Thonhofer, A. Hanslmeier, I. Piantchitsch: Short and long-time evolutions of MBPs
12:40 – 13:10	V. Slemzin, F. Goryaev, Yu. Shugay: Small-scale solar activity as a source of transient solar wind in the beginning of 24th solar cycle
13:10 – 13:40	O.N. Savina, P.A. Bepalov: Five-minute solar atmosphere oscillations due to the instability of acoustic-gravity waves

*Special Session I*

16:00 – 19:00	eHEROES activities
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Tuesday, September 23, 2014

*Observing Techniques and Data Archives I* chairperson: **A. Hanslmeier**

9:00 – 9:40	A. Kučera: 404 years of solar photosphere research ( <i>Review</i> )
9:40 – 10:20	E.W. Cliver, F. Clette, L. Svalgaard, J.M. Vaquero: Pending Revision of the Sunspot Number Time Series ( <i>Invited</i> )
10:20 – 10:50	W. Curdt and B. Fleck: Cosmic ray and SEP effects as seen in SOHO engineering data

10:50 – 11:20	coffee – break
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*Observing Techniques and Data Archives II* chairperson: **A. Kučera**

11:20 – 11:50	W. Pötzi, A. Veronig, U. Amerstorfer, T. Pock, G. Riegler: The real-time flare detection system at Kanzelhöhe Observatory
11:50 – 12:20	T. Mrozek, D. Gronkiewicz: Digging in the RHESSI catalogue. What we can say about HXR emission along one solar cycle and how we can use it for future instruments?
12:20 – 12:50	D.A. Zhdanov, S.V. Lesovoi: Calibration of phase for a multi-frequency 96-antenna radioheliograph.
12:50 – 13:20	Shiv Kumar Subedi: Astronomy and Astrophysics research activities in south-Asian developing countries: a case from Nepal

*Special Session II*

16:00 – 19:00	VarSITI (Variability of the Sun and Its Terrestrial Impact)
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17:00	Excursion to Gališnik island
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Wednesday, September 24, 2014

*Plasma and MHD Processes I* chairperson: **W. Curdt**

9:00 – 9:40	Leonty I. Miroshnichenko: Solar Energetic Particles: Modern Myths and Drastic Realities ( <i>Review</i> )
9:40 – 10:10	R. Dobranskis, V. Zharkova: Analytical solutions of continuity equation for electron precipitation into flaring atmospheres in collisional and Ohmic losses
10:10 – 10:40	B. Vršnak, T. Žic, S. Lulić, N. Muhr, A. Veronig, M. Temmer, I. Kienreich: Initiation and Evolution of Coronal Shock Waves
10:40 – 11:10	I. Piantschitsch, U. Amerstorfer, J. Thalmann, D. Utz, A. Hanslmeier, M. Bárta, S. Thonhofer, B. Lemmerer: Two-fluid 2.5D MHD-code for numerical simulations of small scale magnetic fields in the lower solar atmosphere
11:10 – 11:40	coffee – break

*Plasma and MHD Processes II* chairperson: **B. Vršnak**

11:40 – 12:10	E. Wiehr, G. Stellmacher: Ambiguous determination of prominence temperatures
12:10 – 12:40	E. Dzifcakova, J. Dudik: Effect of the electron kappa-distributions on the non-equilibrium ionization in the transition region and solar corona
12:40 – 13:10	P.A. Bupalov, O.N. Savina: Collective processes in the transition region of the solar atmosphere
17:00	Visit to the Observatory

Thursday, September 25, 2014

*Flares and CMEs I* chairperson: **B. Heber**

9:00 – 9:30	P. Kotrč, P. Heinzel, O. Procházka: Measurements of the Balmer continuum flux in solar flares
9:30 – 10:00	Ż. Szaforz, M. Tomczak: Quasi-periodic pulsations in partially occulted flares
10:00 – 10:30	E. Chmielewska, M. Tomczak, S. Kolomanski: Two kinematical classes of CMEs observed by SDO/AIA, PROBA2/SWAP, and coronagraphs onboard SOHO and STEREO
10:30 – 11:00	L. Kashapova, S. Tokhchukova: A multi-wavelength analysis of the M3.2 flare precursor detected in microwaves
11:00 – 11:30	coffee – break

*Flares and CMEs II* chairperson: **E. Wiehr**

11:30 – 12:00	M. Gryciuk, M. Siarkowski, T. Mrozek, A. Kepa, J. Sylwester: Tiny flares properties based on SphinX observations
12:00 – 12:30	Susanna Tokhchukova: Solar flares forecasting system based on microwave spectral - polarization properties of active regions

*Special Session III*

16:00 – 19:00	SOLARNET activities
20:00	Dinner in "Villa Dinka"

Friday, September 26, 2014

*Space Weather and Space Climate I* chairperson: **P. Kotrč**

9:00 – 9:40	B. Heber, D. Galsdorf, K. Herbst, C. Wallmann, M. Dumbović, B. Vršnak, A. Veronig, C. Möstl, S. Dalla: Forbush decreases associated to Stealth CME ( <i>Invited</i> )
9:40 – 10:10	M. Dumbović, B. Vršnak: Forbush decrease prediction based on the remote solar observations
10:10 – 10:40	I.E. Dammasch, M. Dominique, Th. Katsiyannis, D. Ryan, L. Wauters, M. West: Space Climate and Space Weather Observations with PROBA2/LYRA
10:40 – 11:10	Giuliana Verbanac: Comparison of geoeffectiveness of coronal mass ejections and corotating interaction regions
11:10 – 11:40	coffee – break

*Poster session* chairperson: **V. Zharkova**

11:40 – 11:50	A. Wisniewska, M. Roth: Investigation of solar oscillations with the HELLRIDE instrument
11:50 – 12:00	I. Poljančič-Beljan, R. Jurdana-Šepić, M. Čargonja, R. Brajša, D. Hržina, W. Pötzi, A. Hanslmeier: Solar differential rotation analysis from Kanzelhöhe sunspot drawings
12:00 – 12:10	P. Kuehl, S. Banjac, B. Heber, J. Labrenz, C. Terasa: Extended Measurement Capabilities of the Electron Proton Helium INstrument aboard SOHO - Energy Spectra up to 1 GeV and Anisotropies during GLE 71
12:10 – 12:20	W. Curdt, H. Boehnhardt, J.-B. Vincent, S.K. Solanki, U. Schühle, L. Teriaca: Scattered Lyman-alpha radiation of comet 2012/S1 (ISON) observed by SUMER/SOHO
12:20 – 12:30	P. Jelinek, M. Karlicky: Structured mass density slab as a waveguide of fast magnetoacoustic waves
12:30 – 12:40	K. Jiricka, M. Karlicky: High-frequency reverse drift bursts in 2012-2014 solar flares

*Special Session IV*

16:00 – 17:00	SOLARNET activities
17:00 – 18:00	e-HEROES activities