

XVI Consultations on Solar Physics

PROGRAM

Wednesday 22nd May 2013

Conference Opening

- 8:30 - 9:00 Registration
- 9:00 - 9:10 M. Tomczak
Director of Astronomical Institute of Wroclaw University
- 9:10 - 9:20 J. Sylwester
Head of Solar Physics Division Space Research Centre
Polish Academy of Sciences

Morning Session

- 9:20 - 9:40 **Flaring activity during very deep minimum of solar activity in 2009**
M. Gryciuk, M. Siarkowski, A. Kępa, J. Sylwester
- 9:40 - 10:00 **An overview of XRT images during very low solar activity**
S. Gburek
- 10:00 - 10:20 **Temperature structure of the quiet corona during deep solar minimum**
M. Siarkowski, B. Sylwester, J. Sylwester, S. Gburek, M. Gryciuk, Ż. Szaforz
- 10:20 - 10:40 **Long-term behaviour of the mid-term periodicities in active longitudes**
R. Getko
- 10:40 - 11:10 *Coffee break*
- 11:10 - 11:40 **Flares and eruptions in a newly emerging flux region**
B. Schmieder, C. Mandrini, P. Démoulin, Y. Guo
- 11:40 - 12:00 **The DEM analysis of the active region core and the kappa-distributions**
Š. Mackovjak, E. Dzifčáková, J. Dudík
- 12:00 - 12:20 **Anomalous intensity ratio of the fine structure components of Ly- α line of hydrogen-like ions**
A.A. Reva, S. V. Shestov, S. V. Kuzin
- 12:20 - 12:40 **Coronal index and coronal emission line intensities as derived from the satellite measurements (1996-2012)**

I. Dorotovič, T. Pintér, M. Lorenc, M. Minarovjech, M. Rybanský

12:40 - 13:00 **Plasma heating of solar flares and their soft and hard X-ray emissions**
R. Falewicz

13:00 - 15:00 *Lunch break*

Afternoon session

15:00 - 15:25 **ALMA observations of solar prominences**
P. Heinzel, A. Berlicki, M. Barta, M. Karlicky, P. Rudawy

15:25 - 15:45 **The Magnetic Structure of Solar Prominence Cavities:
New Observational Signature Revealed by Coronal Magnetometry**
U. Bąk-Stęślicka, S.E. Gibson, Y. Fan, C. Bethge, B. Forland, L.A. Rachmeler

15:45 - 16:05 **Non-linear force-free magnetic dip models
of quiescent prominence fine structures**
S. Gunár, D.H. Mackay, U. Anzer, and P. Heinzel

16:05 - 16:25 **Dynamic fibrils in DOT Halpha observations**
J. Koza, P. Suetterlin

16:25 - 17:00 *Coffee break*

17:00 - 17:20 **Solar flare light-curve observations**
Yu. Kuprjakov, S. Dyckova, P. Heinzel, E. Markova, P. Kotrč

17:20 - 17:40 **New fast MSDP observations of impulsive phase of solar flares**
K. Radziszewski

17:40 - 18:00 **Common observations of solar X-rays from SphinX/CORONAS—PHOTON
and XRS/MESSENGER**
A. Kępa, M. Siarkowski, J. Sylwester, B. Sylwester, M. Gryciuk

18:00 - 18:20 **Observations of hot plasma in solar microflares of low X-ray classes**
A.S. Kirichenko, S.A. Bogachev

Thursday 23rd May 2013

9:00 - 9:15 **Zdenek Švestka - obituary**
P. Heinzel

Morning session

9:15 - 9:35 **RESIK spectral atlas for flares: data access and use**
J. Sylwester, B. Sylwester, A. Kępa

- 9:35 - 9:55 **Flare abundances/DEM study based on analysis of RESIK spectra**
B. Sylwester, J. Sylwester, A. Kępa, T. Mrozek, K.J.H. Phillips
- 9:55 - 10:15 **Updated Calculations of H to Zn Ionization Equilibrium for the Non-Maxwellian Electron kappa-distributions**
E. Dzifčáková, J. Dudík
- 10:15 - 10:35 **On the physical meaning of n-distributions in solar flares and soft X-ray line spectra**
M. Karlický, E. Dzifčáková, J. Dudík, A. Zemanová, J. Kašparová
- 10:35 - 11:00 *Coffee break*
- 11:00 - 11:20 **Scaling Laws for Quasi-Periodic Pulsations in Solar Flares?**
M. Tomczak
- 11:20 - 11:40 **Testing the Model of Oscillating Magnetic Traps**
Ż. Szaforz, M. Tomczak
- 11:40 - 12:00 **Numerical simulations of magnetoacoustic waves in the solar atmosphere**
P. Jelínek, M. Karlický, K. Murawski
- 12:00 - 12:20 **Necessary conditions for the existence of magnetohydrodynamic (MHD) equilibria in the solar atmosphere**
D. Nickeler, M. Karlický, M. Barta, T. Wiegelmann
- 12:20 - 13:20 *Lunch break*
- 13:30 - 14:30 *Conference trip*
- Afternoon session***
- 15:00 - 15:20 **On the Solar Eruptive Event on June 7, 2011**
P. Kotrč, J.A. Kuprjakov, L.K. Kashapova, N. Nishizuka, M. Leintzinger, V. Sebelik, J. Zak
- 15:20 - 15:40 **Solar eruptions observed by the Atmospheric Imaging Assembly (AIA) on board the Solar Dynamics Observatory**
E. Chmielewska, M. Tomczak
- 15:40 - 16:00 **Coronal sources in AIA/SDO observations**
S. Kołomański, T. Mrozek
- 16:00 - 16:20 **Time scales of the slowly drifting pulsating structures**
B. Dąbrowski, M. Karlický, P. Rudawy
- Coffee break*
Concert
Conference dinner

Friday 24th May 2013

Morning session

- 9:00 - 9:20 **Future LPI projects: plans, technological challenges and advances**
S. V. Shestov, S.A. Bogachev, S. V. Kuzin
- 9:20 - 9:40 **A set of new imaging instruments for InterHelioProbe space solar mission**
A.S. Kirichenko, S.A. Bogachev, S. V. Kuzin, S. V. Shestov, A.A. Pertsov,
A.A. Reva, A.S. Ulyanov
- 9:40 - 10:05 **Design of ChemiX instrument**
Ż. Szaforz, M. Siarkowski, J. Sylwester, J. Bąkała, Z. Kordylewski, M. Kowaliński,
T. Mrozek, V.D. Kuznetsov
- 10:05 - 10:25 **Possible stereoscopic Hard X-ray observations
with STIX and SORENTO instruments**
T. Mrozek
- 10:25 - 11:00 *Coffe break*
- 11:00 - 11:35 **Radiation belts of the Earth magnetosphere nowadays:
situation and problems to be solved**
O. V. Dudnik, J. Sylwester
- 11:35 - 11:55 **Eclipse observations of solar prominences
in the era of space coronagraphy**
P. Heinzel, S. Gunár, A. Berlicki
- 11:55 - 12:15 **Achievements and prospects of Micromegas detectors**
T. Papaevangelou
- 12:15 - 12:30 *Coffe break*
- 12:30 - 12:50 **Soft X-ray polarimeter-spectrometer SOLPEX
for the Russian module of the ISS**
M. Stęślicki, J. Sylwester, M. Siarkowski, S. Kuzin, M. Kowaliński,
P. Podgórski, J. Bąkała
- 12:50 - 13:10 **EUV spectroheliographs for KORTES experiment aboard ISS**
S. V. Shestov, D. G. Liberzon, A.A. Reva, A.M. Alimov, S. V. Kuzin
- 13:10 - 13:30 **A Novel Concept of Imaging Spectrometer**
S. Płoceniak
- 13:30 *Farewell Coffee*