

PROGRAMME

30 May 2016, Monday

16.30 - 20.00 – Registration

18.30 – Dinner

31 May 2016, Tuesday

7.30 - 9.00 – Breakfast

8.00 - 9.00 – Registration

9.00 – Opening Ceremony

Chairperson: *J. Laštovička*

Observations of the Sun at the Astronomical Observatory in Hurbanovo (review talk)

L. Pastorek

Opportunities for Czech and Slovak teams in the ESA SSA Space Weather

J. Urbář

Memory of Dr. Ladislav Křivský (review talk)

E. Marková

10.30 - 11.00 – Coffee break

Quiet sun magnetic fields (review talk)

C. Fischer

Multiwavelength analysis of magnetic bright points and investigations of the scale height parameter within thin magnetic flux tubes

D. Utz, Kühner O., Van Doorsselaere T., Veronig A., R. Muller

The current solar cycle from the perspective of an observer

J. Klimeš ml., J. Klimeš st.

12.30 – Lunch

15.00

Chairperson: *E. Dzifčáková*

We are after the maximum of the solar cycle 24

L. Pastorek

On the rotation of the solar surface

I. Dorotovič, M. Rybanský

Variations of the EUV radiation of the Sun in the range of 26 - 34 nm since 1940

I. Dorotovič, M. Rybanský

Sunpy: Python for Solar Physics. An implementation for Local Correlation Tracking (LCT)

J. I. Campos Rozo, S. Vargas Domínguez

Analysis of variations in the solar activity using the EMD method

V. Karlovský

Evolution of Solar Activity over a Solar Cycle – from Statistics to Physics

I. Dorotovič, J. Rybák, J. M. Fonseca, R. A. Ribeiro, A. Falcão, S. Carvalho, A. Garcia, T. Barata, J. Fernandes

16.40 - 17.10 – Coffee break

*** Poster session:**

Solar Radio Spectrometers in Slovakia – status report on registration of solar radio bursts

I. Dorotovič, J. Karlovský, V. Karlovský

Conceptual outline of charged particle monitor for ChemiX solar X-ray spectrophotometer for the *Interhelio-Probe* interplanetary mission

O. V. Dudnik, E. V. Kurbatov, J. Sylwester, M. Kowalinski, J. Bąkała, M. Siarkowski

Cosmic rays and thunderstorms: Lomnický štít 2014-2015

M. Kollárik, K. Kudela, R. Langer, I. Strharský

Software tool – Solar Photometry – version 0.1

L. Lenža, J. Benáček

The Common Catalogue of the H alpha prominences of the KSO and LSO observatories - status report

J. Rybák, V. Rušin, W. Pötzi, D. J. Baumgartner, H. Freislich, H. Strutzmann

European Odyssey Space Science Contest in Slovakia

J. Urbář

Variations of the H α spectral line characteristics in connection to bright mottles in the solar chromosphere

M. Bodnárová, D. Utz, J. Rybák

Chromospheric heating by acoustic waves

M. Sobotka, P. Heinzel, M. Švanda, J. Jurčák, D. Del Moro, F. Berrilli

18.45 - Dinner

1 June 2016, Wednesday

7.30 - 9.00 – Breakfast

9.00

Chairperson: *M. Sobotka*

Chromospheric solar flares (review talk)

A. Berlicki

Chromospheric evaporation flows and density changes deduced from Hinode/EIS during an M1.6 flare

P. Gömöry, A. M. Veronig, Y. Su, M. Temmer, K. Thalmann

Analysis of the flaring X-ray line spectra obtained by SMM

A. Zemanová, E. Difčáková, J. Sylwester, Ž. Szaforz, M. Stęślicki, B. Sylwester, K. Phillips

10.20 - 10.40 – Coffee break

First results of the optical continuum measurement in solar flares

P. Kotrč, P. Heinzel, O. Procházka, M. Zapiór, J. Zeman

Emission and kinematic characteristics of a M5.4 solar flare

R. Vašková, A. Kučera

11.45 – Lunch

12.45 – Departure from Liptovský Mikuláš

13.30 – Visit to an open-air museum in Pribylina (Museum of Liptov Village)

15.30 – Departure to Liptovský Mikuláš

16.00 – Visit to the Slovak Museum of Nature Protection and Speleology

18.00 – Tour in the centre of Liptovský Mikuláš

18.45 – Departure to the hotel KLAR

19.15 - Dinner

2 June 2016, Thursday

7.30 - 9.00 – Breakfast

9.00

Chairperson: *E. Marková*

Spektroskopy of a solar prominence (filament) with high spatial resolution

A. Kučera

Helical Magnetic Field Geometry from 3D Reconstruction of Prominence Knot Trajectories

M. Zapiór

A case study of a quiescent prominence observed in He I D3 by THEMIS

J. Koza, A. L. Ariste, J. Rybák, P. Gömöry, M. Kozák

Effect of the non-equilibrium ionization by the electron beam on EUV spectra

E. Dzifčáková, J. Dudík, Š. Mackovjak

The EUV Spectrum observed by Hinode/EIS: Data reduction and possibilities of plasma diagnostics

J. Lörinčík ml., J. Dudík, E. Dzifčáková

10.40 - 11.10 – Coffee break

International program SCOSTEP – VarSITI (review talk)

J. Laštovička

Combined study of radiation belts by the satellite particle telescope STEP-F and solar soft X-ray photometer SphinX during recent deep minimum of solar activity

O. V. Dudnik, J. Sylwester, P. Podgórski

Solar activity and our weather in relation to memory and human health

J. Klimeš ml.

12.30 – Lunch

15.00

Chairperson: *A. Kučera*

Transient response of the ionosphere to the X (EUV) ray solar flares

J. Chum, J. Urbář

The K indices producing method based on the experience of the generations of observers at the Hurbanovo Geomagnetic Observatory

F. Valach, M. Revallo, M. Váczyová, P. Hejda, J. Bochníček

Modeling of magnetic storms caused by CME and CIR

M. Revallo, F. Valach, P. Hejda, J. Bochníček

**Reconstruction of the solar prominence coronagraph at Valašské Meziříčí Observatory
for time resolved high spatial resolution CCD imaging**

J. Srba, L. Lenža

Solar Observation Data Manager – software tool for solar observers

L. Lenža, J. Bulek

16.40 - 17.10 – Coffee break

A story of the GREGOR telescope (review talk)

M. Sobotka

High resolution spectropolarimetric observations of a sunspot with GREGOR telescope

J. Kavka, H. Balthasar, P. Gömöry, C. Kuckein, A. Kučera and the GREGOR team

18.45 – Conference Dinner

3 June 2016, Friday

7.30 - 9.00 – Breakfast

9.00

Chairperson: F. Valach

**Quasi-periodic variations of cosmic rays observed by ground based measurements
(review talk)**

K. Kudela

Solar flares photometry – tests and first results

L. Lenža, J. Benáček, J. Srba, M. Exnerová

Registration of SEA effects at the Astronomical Observatory in Úpice

R. Mrllák

10.20 - 10.40 – Coffee break

Astronomical orientation of churches in Slovakia

V. Karlovský, E. Stopková

12.00 – Lunch

14.00 – End of the meeting – departure of participants

POSTERS

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J. Urbář