**Biannual report**

**Astronomical Institute of the Slovak Academy of Sciences 2014 – 2015**

***Institute***

**Mission Statement of the Institute**

[1] Astronomical Institute of the Slovak Academy of Sciences (AISAS) is focused on observations and basic research in the group of sciences “Natural sciences” sub-group “Physical sciences”, branches “Astronomy”, “Astrophysics”, “Plasma physics” and “Environmental Physics”, with emphasis on research of the Sun, interplanetary matter, stars and stellar systems.

[2] AISAS provides consulting and other expertise services relating to its main specialization.

[3] AISAS organizes the postgraduate (PhD) study in astronomy and astrophysics and ensures the participation of the staff of the Institute in teaching at universities.

[4] AISAS publishes the results of its scientific activity in journals as well as in non-periodical prints and popularizes the results in media.

***Basic information on the Institute:***

**Legal name and address**

Astronomical Institute of the Slovak Academy of Sciences

05960 Tatranská Lomnica, Slovakia

**URL of the institute web site**

https://www.astro.sk/

**Executive body of the institute and its composition**

Director: RNDr. Aleš Kučera, CSc.

Deputy director: Doc. RNDr. Ján Svoreň, DrSc.

Scientific secretary: Mgr. Martin Vaňko, PhD.

Astronomical Institute of the Slovak Academy of Sciences (AISAS) consists of three scientific departments:

**Stellar Department**

**Solar Physics Department**

**Department of interplanetary matter**

**Stellar department – research areas:**

1. study and search of exoplanets, determination of basic parameters of exoplanets and development of theoretical tools for analysis, search for young exoplanets in open galactic clusters, search for circumbinary exoplanets,
2. study of binaries and multiple systems of stars, determination of the absolute parameters of the components of eclipsing binaries using ground-based and satellite photometric, spectroscopic, and interferometric data, study of close binaries focusing on the mass transfer and mass loss, study of cycles of stellar activity and spots,
3. study of pre-main-sequence (T Tauri) multiple and single stars to constrain models of stellar evolution,
4. study of the structure of active components in symbiotic stars, ionization, scattering and mass outflow by the stellar wind and jets, multifrequency observations of classical novae, determination of their orbital periods, study of the structure of their expanding envelopes

**Solar department – research areas:**

1. study of the solar photosphere and chromosphere and active events in them, using modern spectro-polarimetric, spectroscopic and photometric observations acquired with top level solar telescopes base at the Canary Islands (GREGOR, VTT, SST, THEMIS), and with space-borne satellites under own joint observing proposals,
2. study of the solar corona and structures in it (prominences, coronal holes, coronal condensations) and Sun-Earth relations using data acquired with modern infrastructure at our Lomnicky Peak Observatory, with space-borne satellites and from VSO – Virtual Solar Observatory (unique access to data from space- and ground-based observations of the Sun) and using data from solar total eclipses observations,
3. study of evolution of fast and very powerful events in the solar atmosphere (flares, coronal mass ejections, active prominences, jets) using multiple observations from ground based and space-borne instruments,

**Department of interplanetary matter – research areas:**

1. investigation of populations of small bodies in the Solar System, study of transfer orbits, interrelations and evolution among different populations regarding near-Earth objects, study of the structure of the outer part of the Oort cloud and the Edgeworth-Kuiper belt;
2. investigation of the activity of selected cometary nuclei and its influence on physical and dynamical evolution of these bodies, photometry of asteroids and comets;
3. study of structure and dynamics of meteoroid streams and evolution of their parent bodies, description of the distribution of meteoroid particles in the inner Solar System, search for meteoroid streams of asteroidal origin, search for hyperbolic and interstellar meteoroids, operation of the all-sky photographic cameras within the European Fireball Network; study of meteorite properties.
4. study of the physical and chemical properties of surfaces of small bodies in the Solar System and their relevant terrestrial analogs, simulation of effects of space weathering in laboratory conditions, formation of molecules due to ion irradiation of ices relevant to Solar System bodies.

***Results 2014- 2015***

Scientific achievements and results gained at (AISAS) have been published mostly in top high ranked international scientific journals, presented at prestigious international conferences and significantly cited by the scientific community

***Computation and tabulation of fundamental parameters of exoplanets.***

Calculations and analysis of non-isotropic phase functions, asymmetry parameter (mean cosine of the scattering angle), absorption and scattering opacities, single scattering albedos, equilibrium temperatures, and radiative accelerations of dust grains relevant for extrasolar planets are presented. We assume spherical grains, Deirmendjian particle size distribution, and Mie theory. Several species: corundum/alumina, perovskite, olivines with 0 and 50 % iron content, pyroxenes with 0, 20, and 60 % iron content, pure iron, carbon at two different temperatures, water ice, liquid water, and ammonia are considered. The tables cover the wavelength range of 0.2-500 μm and modal particle radii from 0.01 to 100 μm. Equilibrium temperatures and radiative accelerations assume irradiation by a non-blackbody source of light with temperatures from 7000 to 700 K seen at solid angles from 2π to 10-6 sr.

BUDAJ, Ján- KOCIFAJ, Miroslav - SALMERON, Raquel - HUBENY, Ivan. Tables of phase functions, opacities, albedos, equilibrium temperatures, and radiative accelerations of dust grains in exoplanets.In Monthly Notices of the Royal Astronomical Society, 2015, vol. 454, p. 2-27.(**5.107 - IF2014**). (2015 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0035-8711.

***New parameters of G-band bright points introduced and analysed***

So called G-band bright points (GBPs), derived from G-band images of solar photosphere represent locations of enhanced magnetic field. Our study of them is based on four diagnostics (effective velocity, change in the effective velocity, change in the direction angle, and centrifugal acceleration). Additionally, two new ones (rate of motion and time lag between recurrences of GBPs) were introduced by us. The results concerning the commonly used parameters showed the effective velocity of ≈0.9 km s-1, whereas we found a deviation of the effective velocity distribution from the expected Rayleigh function for velocities in the range from 2 to 4 km s-1. The change in the effective velocity distribution is consistent with a Gaussian one with FWHM=0.079 km s-2. The distribution of the centrifugal acceleration exhibits a highly exponential nature. Two new parameters were defined by us: i) the real displacement between appearance and disappearance of GBPs (rate of motion) and the frequency of their recurrence at the same locations (time 7 lag). The locations of the tracked GBPs mainly cover the boundaries of supergranules representing the network, and there is no significant difference in the locations of GBPs with small (m<1) and large (m>2) values of the rate of motion. The time lags mostly lie within the interval of ≈ 2 - 3 min, with those up to ≈ 4 min being more abundant than longer ones. Results for both new parameters indicate that the locations of different dynamical types of GBPs (stable/farther traveling or with short/long lifetimes) are bound to the locations of more stable and long-living magnetic field concentrations. Thus, the disappearance/reappearance of the tracked GBPs cannot be perceived as the disappearance/reappearance of their corresponding magnetic field concentrations.

BODNÁROVÁ, Marcela - UTZ, Dominik - RYBÁK, Ján. On dynamics of G-band bright points. In *Solar Physics*, 2014, vol. 289, p. 1543-1556. (**3.805 - IF2013**). (2014 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0038-0938.

***Impacts of stream meteoroids on the nuclei of comets***

We attempt to answer two questions concerning the impacts of stream meteoroids on the nuclei of Comets 9P/Tempel 1 and 81P/Wild 2: firstly, how many streams cross the orbits of both comets and, secondly, what is the index of the differential mass distribution of impactors, s, when we assume that a prevailing number of the craters on the surfaces of cometary nuclei were created by stream meteoroids? We found that 110 and 129 potential streams originating from comets likely cross the orbits of 9P and 81P, respectively (and 103 potential streams cross the orbit of 1P/Halley, for comparison). If we consider the more compact streams originating from asteroids, the 9P and 81P pass through such streams 15 664 and 65 368 times. Neither these large numbers of passages imply, however, enough large impactors to excavate the whole observed variety of craters on studied comets. For all craters on 9P and 81P, s=2.09±0.01 and s=2.25±0.03, respectively. The craters on 81P seem to be, however, excavated by the impactors from four discernible sources. For two numerous enough sources we find s=5.6±0.2 and s=5.2±0.5. The difference between the indices for the set of all craters and the sets of their partial groups obviously implies an unknown cosmogonic consequence.

IVANOVA, Oleksandra - NESLUŠAN, Luboš - SVOREŇ, Ján - SEMAN KRIŠANDOVÁ, Zuzana. Crater-diameter distribution on Comets 9P and 81P and potential meteoroid streams crossing their orbits. In *Icarus*, 2015, vol. 254, p. 92-101. (**3.038 - IF2014**). (2015 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0019-1035.

***Asteroid surface space weathering investigated both observationally and experimentally***

Surfaces of atmosphere-less small bodies in the Solar System, which are not protected by magnetic field, are continuously affected by processes of space wheathering.

Asteroid surface space weathering has been investigated both observationally and experimentally, mostly focusing on the effects on the visible–near infrared (VNIR, 0.4–2.5 μm) spectral range. Here we present laboratory near-ultraviolet (NUV, 200–400 nm) reflectance spectra of ion irradiated (30–400 keV) silicates and meteorites as a simulation of solar wind ion irradiation. These results show that the induced alteration can reproduce the spread observed in the VNIR vs. NUV slope diagram for S-type asteroids. In particular, the well-known spectral reddening effect induced in the VNIR range is accompanied by a less known but stronger bluing effect at NUV wavelengths. Such trend was previously identified by Hendrix and Vilas (Hendrix, A.R., Vilas, F. [2006]. Astron. J., 132, 1396–1404) but only based on the comparison between observations and laboratory spectra of lunar materials. We attribute the NUV bluing, analogously to the VNIR reddening, to the formation of iron nanoparticles accompanied by structural modifications (amorphization) of surface silicates. We expect the evidence of weathering processes in the NUV part of spectra before these effects become observable at longer wavelengths, thus searching for the space weathering effects in the NUV range would allow establishing the extent of space weathering for very young asteroidal families. It will be important to include in future studies the NUV range both in the observations of specific classes of objects (e.g., the Vestoids) and in the laboratory spectra of meteorites and terrestrial analogues before and after space weather processing.

KAŇUCHOVÁ, Zuzana - BRUNETTO, Rosario - FULVIO, Daniele - STRAZZULLA, Giovanni. Near-ultraviolet bluing after space weathering of silicates and meteorites. In *Icarus*, 2015, vol. 258, p. 289-296. (**3.038 - IF2014**). (2015 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0019-1035.

***Theoretical transmission profiles of the DOT Hα Lyot filter***

Accurate knowledge of the spectral transmission profile of a Lyot filter is important, in particular in comparing observations of the solar chromosphere with simulated data. We summarized available facts about the transmission profile of the Dutch Open Telescope (DOT) Hα Lyot filter pointing to a discrepancy between sidelobe-free Gaussian-like profile measured spectroscopically and signatures of possible leakage of parasitic continuum light in DOT Hα images. We computed wing-to-center intensity ratios resulting from convolutions of Gaussian and square of the sinc function with the Hα atlas profile and compare them with the ratios derived from observations of the quiet Sun chromosphere at disk centre. We interpret discrepancies between the anticipated and observed ratios and the sharp limb visible in the DOT Hα image as an indication of possible leakage of parasitic continuum light. A method we suggested can be applied also to indirect testing of transmission profiles of other Lyot filters. We suggest two theoretical transmission profiles of the DOT Hα Lyot filter which should be considered as the best available approximations. Conclusive answer can only be given by spectroscopic re-measurement of the filter.

KOZA, Július - HAMMERSCHLAG, Robert H. - RYBÁK, Ján - GÖMÖRY, Peter - KUČERA, Aleš - SCHWARTZ, Pavol. Transmission profile of the Dutch Open Telescope H\_alpha Lyot filter. In *Astronomische Nachrichten*, 2014, vol. 335, no. 4, p. 409-416. (**1.119 - IF2013**). (2014 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0004-6337.

***Magnetoacoustic waves in solar flares.***

Currently, there is a common endeavour to detect magnetoacoustic waves in solar flares. We contributed to this topic using an approach of numerical simulations. We studied a spatial and temporal evolution of impulsively generated fast and slow magnetoacoustic waves propagating along the dense slab and Harris current sheet using two-dimensional magnetohydrodynamic numerical models. Wave signals computed in numerical models were used for computations of the temporal and spatial wavelet spectra for their possible comparison with those obtained from observations. It is shown that these wavelet spectra allow us to estimate basic parameters of waveguides and perturbations. We found that the wavelet spectra of waves in the dense slab and current sheet differ in additional wavelet components that appear in association with the main tadpole structure. While in the dense slab this additional component is always delayed after the tadpole head, in the current sheet this component always precedes the tadpole head. It could help distinguish a type of the waveguide in observed data. We presented a technique based on wavelets that separates wave structures according to their spatial scales. This technique shows not only how to separate the magnetoacoustic waves and waveguide structure in observed data, where the waveguide structure is not known, but also how propagating magnetoacoustic waves would appear in observations with limited spatial resolutions. Thus, new possibilities to detect magnetoacoustic waves in observed data are open

MÉSZÁROSOVÁ, Hana - KARLICKÝ, Marian - JELÍNEK, Petr - RYBÁK, Ján. Magnetoacoustic waves propagating along a dense slab and Harris current sheet and their wavelet spectra. In The Astrophysical Journal, 2014, vol. 788, article no. 44, p. 1-10. (**6.280 - IF2013**). (2014 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0004-637X.

***Mineralogy, petrology, and geochemistry of the Košice meteorite***

The Košice meteorite was observed to fall on 28 February 2010 at 23:25 UT near the city of Košice in eastern Slovakia and its mineralogy, petrology, and geochemistry are described. The characteristic features of the meteorite fragments are fan-like, mosaic, lamellar, and granular chondrules, which were up to 1.2 mm in diameter. The fusion crust has a black-gray color with a thickness up to 0.6 mm. The matrix of the meteorite is formed mainly by forsterite (Fo80.6); diopside; enstatite (Fs16.7); albite; troilite; Fe-Ni metals such as iron and taenite; and some augite, chlorapatite, merrillite, chromite, and tetrataenite. Plagioclase-like glass was also identified. Relative uniform chemical composition of basic silicates, partially brecciated textures, as well as skeletal taenite crystals into troilite veinlets suggest monomict breccia formed at conditions of rapid cooling. The Košice meteorite is classified as ordinary chondrite of the H5 type which has been slightly weathered, and only short veinlets of Fe hydroxides are present. The textural relationships indicate an S3 degree of shock metamorphism and W0 weathering grade. Some fragments of the meteorite Košice are formed by monomict breccia of the petrological type H5. On the basis of REE content, we suggest the Košice chondrite is probably from the same parent body as H5 chondrite Morávka from Czech Republic. Electron-microprobe analysis (EMPA) with focused and defocused electron beam, whole-rock analysis (WRA), inductively coupled plasma mass and optical emission spectroscopy (ICP MS, ICP OES), and calibration-free laser induced breakdown spectroscopy (CF-LIBS) were used to characterize the Košice fragments. The results provide further evidence that whole-rock analysis gives the most accurate analyses, but this method is completely destructive. Two other proposed methods are partially destructive (EMPA) or nondestructive (CF-LIBS), but only major and minor elements can be evaluated due to the significantly lower sample consumption.

OZDÍN, Daniel - PLAVČAN, Jozef - HORŇÁČKOVÁ, Michaela - UHER, Pavel - PORUBČAN, Vladimír - VEIS, Pavel - RAKOVSKÝ, Jozef - TÓTH, Juraj - KONEČNÝ, Patrik - SVOREŇ, Ján. Mineralogy, petrography, geochemistry, and classification of the Košice Meteorite. In *Meteoritics and Planetary Science*, 2015, vol. 50, no. 5, p. 864-879. (**3.104 - IF2014**). (2015 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 1086-9379.

***Coronal motion and dynamics over the solar-activity cycle***,

Continuing our series of observations of coronal motion and dynamics over the solar-activity cycle, we observed from sites in Queensland, Australia, during the 2012 November 13 (UT)/14 (local time) total solar eclipse. The corona took the low-ellipticity shape typical of solar maximum (flattening index ɛ = 0.01), a change from the composite coronal images we observed and analyzed here and elsewhere for the 2006 and 2008-2010 eclipses. Our results include velocities of a coronal mass ejection (CME; during the 36 minutes of passage from the Queensland coast to a ship north of New Zealand, we measured 413 km s-1) and we analyzed its dynamics. We analyzed the shapes and positions of several types of coronal features seen on our higher-resolution composite coronal images, including many helmet streamers, very faint bright and dark loops at the bases of helmet streamers, voids, and radially oriented thin streamers. We compared our eclipse observations with models of the magnetic field, confirming the validity of the predictions, and relate the eclipse phenomenology seen with the near-simultaneous images from NASA's Solar Dynamics Observatory (SDO/AIA), NASA's Extreme Ultraviolet Imager on Solar Terrestrial Relations Observatory, ESA/Royal Observatory of Belgium's Sun Watcher with Active Pixels and Image Processing (SWAP) on PROBA2, and Naval Research Laboratory's Large Angle and Spectrometric Coronagraph Experiment on ESA's Solar and Heliospheric Observatory.

PASACHOFF, Jay M. - RUŠIN, Vojtech - SANIGA, Metod - BABCOCK, Bryce A. - LU, Muzhou - DAVIS, Allen B. - DANTOWITZ, Ronald - GAINTATZIS, Pavlos - SEIRADAKIS, John H. - VOULGARIS, Aris - SEATON, Daniel B. - SHIOTA, Kazuo. Structure and dynamics of the 2012 November 13/14 eclipse white-light corona. In *The Astrophysical Journal*, 2015, vol. 800, article no. 90, p. 1-19. (**5.993 - IF2014**). (2015 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0004-637X.

***New multiwavelength analysis and modelling of physical parameters of solar prominences***

**i)** Total masses of six solar prominences were estimated using prominence multi-spectral observations (in EUV, X-rays, Hα, and Ca II H). The observations were made during the observing campaign from April through June 2011. We applied a complex method for the prominence mass estimations that can be used later for other prominences observed during the observing campaign. Our method is based on the fact that intensity of the EUV solar corona at wavelengths below 912 Å is reduced by the absorption in resonance continua of hydrogen and helium (photoionisation) and at the same time also by a deficit of the coronal emissivity in volume occupied by the cool prominence plasma. Both mechanisms contribute to intensity decrease simultaneously. The observations in X-rays allow us to separate these mechanisms from each other. Coronal emission behind a prominence is not estimated by any temporal or spatial interpolation, but by using a new method based on comparing the ratio of the optical thickness at 193 Å and 211 Å determined from the observations with the theoretical ratio. Values of the total mass estimated for six prominences are between 2.9 × 1011 and 1.7 × 1012 kg. The column density of hydrogen is of the order of 1018-1019 cm-2. The method is now ready to be used for all 30 prominences observed during the campaign. Thus, it will be possible to obtain a statistics of the total mass of quiescent solar prominences. [1]

ii) We performed a detailed statistical analysis of the spectral Lyman-line observations of the quiescent prominence observed on May 18, 2005. We used a profile-to-profile comparison of the synthetic Lyman spectra obtained by 2D single-thread prominence fine-structure model as a starting point for a full statistical analysis of the observed Lyman spectra. We employed 2D multi-thread fine-structure models with random positions and line-of-sight velocities of each thread to obtain a statistically significant set of synthetic Lyman-line profiles. We used for the first time multi-thread models composed of non-identical threads and viewed at line-of-sight angles different from perpendicular to the magnetic field. We investigated the plasma properties of the prominence observed with the SoHO/SUMER spectrograph on May 18, 2005 by comparing the histograms of three statistical parameters characterizing the properties of the synthetic and observed line profiles. In this way, the integrated intensity, Lyman decrement ratio, and the ratio of intensity at the central reversal to the average intensity of peaks provided insight into the column mass and the central temperature of the prominence fine structures. [2]

iii) We investigated the soft X-ray (SXR) signatures of a prominence. The X-ray observations were obtained by the satellite Hinode/X-Ray Telescope using two different filters. Both of them have a pronounced peak of the response function around 10 Å. The observed darkening in both of these filters has a very large vertical extension. The position and shape of the darkening correspond nicely with the prominence structure seen in satellite SDO/AIA images. Detailed calculations of the optical thickness in this spectral range show clearly that the darkening is not caused by X-ray absorption. Therefore, we suggested that presence of an extended region with a large emissivity deficit, which can be caused by the presence of cool prominence plasmas within an otherwise hot corona. To reproduce the observed darkening, one needs a very large extension along the line of sight of the region amounting to around 105 km. We interpret this region as the prominence spine, which is also consistent with SDO/AIA observations in EUV. [3]

[1] SCHWARTZ, Pavol - HEINZEL, Petr - KOTRČ, Pavel - FÁRNÍK, František - KUPRYAKOV, Yurij Alexejevič - DELUCA, Edward E. - GOLUB, Leon. Total mass of six quiescent prominences estimated from their multi-spectral observations. In Astronomy and Astrophysics, 2015, vol. 574, article no. A62, p. 1-18. (**4.378 - IF2014**). (2015 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0004-6361.

 [2] SCHWARTZ, Pavol - GUNÁR, Stanislav - CURDT, Werner. Non-LTE modelling of prominence fine structures using hydrogen Lyman-line profiles. In Astronomy and Astrophysics, 2015, vol. 577, article no. A92, p. 1-10. (**4.378 - IF2014**). (2015 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0004-6361.

[3] SCHWARTZ, Pavol - JEJČIČ, S. - HEINZEL, Petr - ANZER, Ulrich - JIBBEN, Patricia R. Prominence visibility in HINODE/XRT images. In The Astrophysical Journal, 2015, vol. 807, article no. 97, p. 1-9. (**5.993 - IF2014**). (2015 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0004-637X.

***Introducing of a new method for determining the mass-loss rate from symbiotic binaries via the Raman scattering on atomic hydrogen***

The mass-loss rate from Mira variables represents a key parameter in our understanding of their evolutionary tracks. We introduce a method for determining the mass-loss rate from the Mira component in D-type symbiotic binaries via the Raman scattering on atomic hydrogen in the wind from the giant. Using our method, we investigated Raman HeII λ1025 → λ6545 conversion in the spectrum of the symbiotic Mira V1016 Cyg. We determined its efficiency to 10.2 and 14.8% and using the ionization model of symbiotic stars we determined the corresponding mass-loss rate of 2.0(+0.1/-0.2)×10-6 and 2.7(+0.2/-0.1)×10-6 M⊙ per year from our spectra on 2006 April and 2007 July, respectively. Our values of the mass-loss rate that we derived from Raman scattering are comparable with those obtained independently by other methods. Applying the method to other Mira–white dwarf binary systems can help us in modelling evolutionary tracks of the cool giants during their late stages of evolution at the asymptotic branch of the H-R diagram.

SEKERÁŠ, Matej - SKOPAL, Augustin. Mass-loss rate by the Mira in the symbiotic binary V1016 Cygni from Raman scattering. In The Astrophysical Journal, 2015, vol. 812, article no. 162, p. 1-8. (**5,993 – IF2014**). (2015 – Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0004-637X.

***First time evidence of rotational motions in a tornado-like prominence.***

Su et al. proposed a new explanation for filament formation and eruption, where filament barbs are rotating magnetic structures driven by underlying vortices on the surface. Such structures have been noticed as tornado-like prominences when they appear above the limb. They may play a key role as the source of plasma and twist in filaments. However, no observations have successfully distinguished rotational motion of the magnetic structures in tornado-like prominences from other motions such as oscillation and counter-streaming plasma flows. Here we report firs time evidence of rotational motions in a tornado-like prominence. The spectroscopic observations in two coronal lines were obtained from a specifically designed Hinode/EIS observing program. The data revealed the existence of both cold and million-degree-hot plasma in the prominence leg, supporting the so-called prominence-corona transition region. The opposite velocities at the two sides of the prominence and their persistent time evolution, together with the periodic motions evident in SDO/AIA dark structures, indicate a rotational motion of both cold and hot plasma with a speed of ~5 km s-1

SU, Yang - GÖMÖRY, Peter - VERONIG, Astrid - TEMMER, Manuela - WANG, Tongjiang - VANNINATHAN, Kamalam - GAN, Weiqun - LI, YouPing. Solar magnetized tornadoes: rotational motion in a tornado-like prominence. In *The Astrophysical Journal Letters*, 2014, vol. 785, article no. L2, p. 1-6. (**5.602 - IF2013)**. (2014 - Current Contents, SCOPUS, WOS, NASA ADS). ISSN 2041-8205.

***International projects - grants: 2014- 2015***

***Project title:*** Polarization as a tool to study the Solar System and beyond

***Type/ Project number:*** MPNS COST Action MP1104

***Duration:*** 11/2012-11/2015

***Responsible person:*** Partner - Coordinator for Slovakia/ A. Kučera - scientist in charge

***Project title:*** SOLARNET- High-Resolution Solar Physics Network

***Type/ Project number:*** 7 RP/FP7-INFRA-312495

***Duration:*** 04/2013-03/2017

***Responsible person:*** Partner/ A. Kučera - scientist in charge

***Project title:*** Topology and physical parameter of the magnetic fields in solar filaments.

***Type/ Project number:*** 7 RP SOLARNET Trans-nat. access programe: VTT - Ref. nr.: 14-08

***Duration:*** 09/2014-09/2014

***Responsible person:*** Coordinator / P. Gömöry

***Project title:*** Coordinated three-site observations of quiescent prominencess

***Type/ Project number:*** 7 RP SOLARNET Trans-nat. access programe: Ref. nr.: 14-07

***Duration:*** 07/2014-08/2014

***Responsible person:*** Coordinator / J. Koza

***Project title:*** Origins and evolution of life on Earth and in the Universe

***Type/ Project number:*** COST Action TD 1308

***Duration:*** 05/2014- 05/2018

***Responsible person:*** Partner- Coordinator for Slovakia/ Z. Kaňuchová - scientist in charge

***Project title:*** Mapping the fireball stage of the Nova Del 2013 (V339 Del) by the method of multi-wavelength modelling its SED

***Type/ Project number:*** Alexander von Humboldt Foundation SLA/1039115

***Duration:*** 03/2014-04/2014

***Responsible person:*** Coordinator A. Skopal

***Project title:*** Topology and physical parameter of the magnetic fields in solar filaments.

***Type/ Project number:*** 7 RP SOLARNET Trans-nat. access programe: GREGOR - Ref. nr.: 15-07

***Duration:*** 051/2015-05/2015

***Responsible person:*** Coordinator / P. Gömöry

***Project title:*** Two suns in the sky: search for circumbinary planets with the TEST telescope

***Type/ Project number:*** DFG/DFGHA 3279/9-1

***Duration:*** 01/2015- 12/2017

***Responsible person:*** Partner/ T. Pribulla

***Project title:*** Exploring the accretion process in the symbiotic system CH Cygni during its transition from quiescence to the present (2014-15) active phase

***Type/ Project number:*** Alexander von Humboldt Foundation SLA/1039115

***Duration:*** 03/2015-04/2015

***Responsible person:*** Coordinator A. Skopal

***Project title:*** Impulsively generated waves in radio and X-ray ranges of the electromagnetic spectrum detected in the solar corona

***Type/ Project number:*** MAD SK-CZ

***Duration:*** 01/2012-12/2014

***Responsible person:*** Coordinator / J. Rybák

***Project title:*** Plasma diagnostics of EIT waves and flares on the Sun

***Type/ Project number:*** MVD APVV SK-AT-0003-12 SK 16/2013

***Duration:*** 01/2013-12/2014

***Responsible person:*** Coordinator / P. Gömöry

***Project title:*** Study of stellar explosions in interacting binaries

***Type/ Project number:*** MAD SK-UA Č:1/2014

***Duration:*** 10/2014-12/2016

***Responsible person:*** Coordinator / D. Chochol

***Project title:*** The magnetic vector field in solar filaments

***Type/ Project number:*** MAD - DAAD 57065721

***Duration:*** 01/2014-12/2015

***Responsible person:*** Partner / P.Schwartz

***Project title:*** The Dwarf project: Eclipsing binaries – precise clocks to discover exoplanets

***Type/ Project number:*** MAD SK-UA Č: 2/2014

***Duration:*** 01/2014-12/2015

***Responsible person:*** Coordinator / M. Vaňko

***Project title:*** The study of interplanetary matter in the Earth's vicinity

***Type/ Project number:*** MAD SAV-AV ČR 15-17

***Duration:*** 01/2015-12/2017

***Responsible person:*** Coordinator / M. Husárik

***Project title:*** Observing Coronal Eruptions and Spectra at the 2015 Arctic Solar Eclipse

***Type/ Project number:*** Bilateral/Nat. Geographic's Committee on Research and Exploration, USA 9616-14

***Duration:*** 06/2014-12/2015

***Responsible person:*** Partner/ V. Rušin

***Project title:*** Finite-Geometrical Aspects of Quantum Theory

***Type/ Project number:*** Bilateral/FWF-M1564-N27l

***Duration:*** 03/2014-06/2015

***Responsible person:*** Coordinator / M. Saniga

***Project title:*** Exploring the Geometry of Generalized Pauli Groups

***Type/ Project number:*** Bilateral RECH-MOB15-000007

***Duration:*** 09/2015-06/2016

***Responsible person:*** Coordinator / M. Saniga

***International visits of the institute***

**YEAR-2015**

|  |  |
| --- | --- |
| **Country** | **Type of visits** |
|  | **Projects** | **Bilateral** | **Other** |
|  | **Name** | **Days** | **Name** | **Days** | **Name** | **Days** |
| Czech republic | Koten Pavel | 5 |  |  | Mikulášek Zdeněk  | 14 |
|  | Meszárosova Hana | 14 |  |  | Mikulášek Zdeněk | 18 |
|  | Shrbený Lukáš | 5 |  |  |  |  |
|  | Vojáček Vlastimil | 5 |  |  |  |  |
| Estonia |  |  |  |  | Leedjarv Laurits | 4 |
| Germany | Balthasar Horst | 19 |  |  |  |  |
|  | Denker Carsten | 12 |  |  |  |  |
|  | Gonzáles Sergio Javier | 20 |  |  |  |  |
|  | Kuckein Christoph | 13 |  |  |  |  |
|  | Verma Meetu | 12 |  |  |  |  |
| Poland |  |  |  |  | Berlicky Arkadius | 12 |
|  |  |  |  |  | Zapior Maciej | 13 |
| Russia |  |  |  |  | Kravtsova Alexandra  | 90 |
| Italy |  |  |  |  | Capobianco Gerardo  | 8 |
|  |  |  |  |  | Capobianco Gerardo | 8 |
|  |  |  |  |  | Romoli Marco | 8 |
| Ukraine |  |  |  |  | Ivanova Oleksandra | 184 |
|  |  |  |  |  | Krushevska Viktoria | 90 |
| USA |  |  |  |  | Getman Konstantin | 17 |
| **Total** | **9** | **105** |  |  | **12** | **466** |

**YEAR 2014**

|  |  |
| --- | --- |
| **Country** | **Type of visits** |
|  | **Projects** | **Bilateral** | **Other** |
|  | **Name** | **Days** | **Name** | **Days** | **Name** | **Days** |
| Czech Republic | Mészarosová Hana | 15 |  |  | Heinzel Petr | 10 |
|  |  |  |  |  | Jelínek Petr | 13 |
|  |  |  |  |  | Mikulášek Zdenek | 13 |
|  |  |  |  |  | Wolf Marek | 5 |
| France |  |  |  |  | Holweck Fréderic | 8 |
| Germany | Balthasar Horst | 15 |  |  |  |  |
|  | Denker Carsten | 18 |  |  |  |  |
|  | Diercke Andrea | 18 |  |  |  |  |
|  | Kuckein Christoph | 15 |  |  |  |  |
|  | Manrique Sergio | 5 |  |  |  |  |
|  | Manrique Sergio | 15 |  |  |  |  |
| Poland |  |  |  |  | Berlicki Arkadiusz | 7 |
|  |  |  |  |  | Galan Cezary | 4 |
| Austria |  |  |  |  | Utz Dominik | 6 |
|  |  |  |  |  | Vanninathan Kamalam | 4 |
| Russia |  |  |  |  | Gladilina Natalia | 21 |
|  |  |  |  |  | Golysheva Polina | 20 |
|  |  |  |  |  | Kravtseva Alexandra | 92 |
|  |  |  |  |  | Zemko Polina | 79 |
| Slovenia |  |  |  |  | Jejčič Sonja | 10 |
| Italy |  |  |  |  | Capobianco Gerardo | 8 |
|  |  |  |  |  | Fineschi Silvano | 8 |
|  |  |  |  |  | Massone Giussepe | 8 |
| Ukraine |  |  |  |  | Breus Vitalii  | 8 |
|  |  |  |  |  | Ivanova Alexandra | 92 |
| **Total** | **7** | **101** |  |  | **19** | **416** |

***List of publications***

***YEAR 2015***

**ADCA Scientific papers in international scientific journals with impact factor**

|  |  |
| --- | --- |
| ADCA01 | BARSUNOVA, Olga Yu. - GRININ, Vladimir P. - SERGEEV, Sergey G. - SEMENOV, A.O. - SHUGAROV, Sergey Yu.. UX Ori variables in the cluster IC 348. In Astrophysics, 2015, vol. 58, no. 2, p. 193-203. (0.707 - IF2014). (2015 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0571-7256. |
| ADCA02 | BORISOV, Nikolay V. - GABDEEV, Maksim M. - SHIMANSKY, V.V. - KATYSHEVA, Natalia A. - SHUGAROV, Sergey Yu.. Spectroscopic study of the Polar BS Tri. In Astronomy Letters : a journal of astronomy and space astrophysics, 2015, vol. 41, no. 11, p. 646-659. (1.432 - IF2014). (2015 - Current Contents). ISSN 1063-7737. |
| ADCA03 | BUDAJ, Ján - KOCIFAJ, Miroslav - SALMERON, Raquel - HUBENY, Ivan. Tables of phase functions, opacities, albedos, equilibrium temperatures, and radiative accelerations of dust grains in exoplanets. In Monthly Notices of the Royal Astronomical Society, 2015, vol. 454, p. 2-27. (5.107 - IF2014). (2015 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0035-8711. |
| ADCA04 | HAJDUKOVÁ, Mária, Jr. - RUDAWSKA, Regina - KORNOŠ, Leoš - TÓTH, Juraj. April ρ Cygnids and comet C/1917 F1 Mellish. In Planetary and Space Science, 2015, vol. 118, p. 28-34. (1.875 - IF2014). (2015 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0032-0633. |
| ADCA05 | IVANOVA, Oleksandra - NESLUŠAN, Luboš - SVOREŇ, Ján - SEMAN KRIŠANDOVÁ, Zuzana. Crater-diameter distribution on Comets 9P and 81P and potential meteoroid streams crossing their orbits. In Icarus, 2015, vol. 254, p. 92-101. (3.038 - IF2014). (2015 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0019-1035. |
| ADCA06 | IVANOVA, Oleksandra - NESLUŠAN, Luboš - SEMAN KRIŠANDOVÁ, Zuzana - SVOREŇ, Ján - KORSUN, Pavlo - AFANASIEV, Viktor - RESHETNYK, Volodymyr - ANDREEV, Maksim V. Observations of comets C/2007 D1 (LINEAR), C/2007 D3 (LINEAR), C/2010 G3 (WISE), C/2010 S1 (LINEAR), and C/2012 K6 (McNaught) at large heliocentric distances. In Icarus, 2015, vol. 258, p. 28-36. (3.038 - IF2014). (2015 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0019-1035. |
| ADCA07 | JAKŠOVÁ, Ivana - PORUBČAN, Vladimír - KLAČKA, Jozef. Structure and sources of the sporadic meteor background from video observations. In Publications of the Astronomical Society of Japan, 2015, vol. 67, no. 5, article no. 99, p. 1-7. (2.066 - IF2014). (2015 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0004-6264. |
| ADCA08 | JAKUBÍK, Marián - NESLUŠAN, Luboš. Meteor complex of asteroid 3200 Phaethon: its features derived from theory and updated meteor data bases. In Monthly Notices of the Royal Astronomical Society, 2015, vol. 453, p. 1186-1200. (5.107 - IF2014). (2015 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0035-8711. |
| ADCA09 | KAŇUCHOVÁ, Zuzana - BRUNETTO, Rosario - FULVIO, Daniele - STRAZZULLA, Giovanni. Near-ultraviolet bluing after space weathering of silicates and meteorites. In Icarus, 2015, vol. 258, p. 289-296. (3.038 - IF2014). (2015 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0019-1035. |
| ADCA10 | KATO, Taichi - HAMBSCH, Franz-Josef - DUBOVSKÝ, Pavol - KUDZEJ, Igor - MONARD, Berto - MILLER, Ian - ITOH, Hiroshi - KIYOTA, Seiichiro - MASUMOTO, Kazunari - FUKUSHIMA, Daiki - KINOSHITA, Hiroki - MAEDA, Kazuki - MIKAMI, Jyunya - MATSUDA, Risa - KOJIGUCHI, Naoto - KAWABATA, Miho - TAKENAKA, Megumi - MATSUMOTO, Katsura - DE MIGUEL, Enrique - MAEDA, Yutaka - OHSHIMA, Tomohito - ISOGAI, Keisuke - PICKARD, Roger - HENDEN, Arne - KAFKA, Stella - AKAZAWA, Hidehiko - OTANI, Noritoshi - ISHIBASHI, Sakiko - OGI, Minako - TANABE, Kenji - IMAMURA, Kazuyoshi - STEIN, William - KASAI, Kiyoshi - VANMUNSTER, Tonny - STARR, Peter - OKSANEN, Arto - PAVLENKO, Elena - ANTONYUK, Oksana I. - ANTONYUK, Kirill - SOSNOVSKIJ, Aleksei - PIT, Nikolai - BABINA, Julia - SKLYANOV, Aleksandr - NOVÁK, Rudolf - DVORAK, Shawn - MICHEL, Raul - MASI, Gianluca - LITTLEFIELD, Colin - ULOWETZ, Joseph - SHUGAROV, Sergey Yu. - GOLYSHEVA, Polina Yu. - CHOCHOL, Drahomír - KRUSHEVSKA, Victoria - RUIZ, Javier - TORDAI, Tamas - MORELLE, Etienne - SABO, Richard - MAEHARA, Hiroyuki - RICHMOND, Michael - KATYSHEVA, Natalia A. - HIROSAWA, Kenji - GOFF, William N. - DUBOIS, Franky - LOGIE, Ludwig - RAU, Steve - VOLOSHINA, Irina - ANDREEV, Maksim V. - SHIOKAWA, Kazuhiko - NEUSTROEV, Vitaly V. - SJOBERG, George - ZHARIKOV, Sergey - JAMES, Nick - BOLT, Greg - CRAWFORD, Tim - BUCZYNSKI, Denis - COOK, Lewis - KOCHANEK, Christopher S. - SHAPPEE, Benjamin - STANEK, Krzysztof Z. - PRIETO, Jose L. - DENISENKO, Denis - NISHIMURA, Hideo - MUKAI, Masaru - KANEKO, Shizuo - UEDA, Seiji - STUBBINGS, Rod - MORIYAMA, Masayuki - SCHMEER, Patrick - MUYLLAERT, Eddy - SHEARS, Jeremy - MODIC, Robert J. - PAXSON, Kevin B. Survey of period variations of superhumps in SU UMa-type dwarf novae. VII. The seventh year (2014-2015). In Publications of the Astronomical Society of Japan, 2015, vol. 67, no. 6, article no. 105, p. 1-110. (2.066 - IF2014). (2015 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0004-6264. |
| ADCA11 | KHRUZINA, T. - GOLYSHEVA, Polina Yu. - KATYSHEVA, Natalia A. - SHUGAROV, Sergey Yu. - SHAKURA, N.I. The dwarf nova V1239 Herculis in quiescence. In Astronomy Reports, 2015, vol. 59, no. 4, p. 288-312. (0.943 - IF2014). (2015 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 1063-7729. |
| ADCA12 | MELITA, Mario - KAŇUCHOVÁ, Zuzana - BRUNETTO, Rosario - STRAZZULLA, Giovanni. Space weathering and the color–color diagram of Plutinos and Jupiter Trojans. In Icarus, 2015, vol. 248, p. 222-229. (3.038 - IF2014). (2015 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0019-1035. |
| ADCA13 | OZDÍN, Daniel - PLAVČAN, Jozef - HORŇÁČKOVÁ, Michaela - UHER, Pavel - PORUBČAN, Vladimír - VEIS, Pavel - RAKOVSKÝ, Jozef - TÓTH, Juraj - KONEČNÝ, Patrik - SVOREŇ, Ján. Mineralogy, petrography, geochemistry, and classification of the Košice Meteorite. In Meteoritics and Planetary Science, 2015, vol. 50, no. 5, p. 864-879. (3.104 - IF2014). (2015 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 1086-9379. |
| ADCA14 | PAPAGEORGIOU, Andreas - CHRISTOPOULOU, Panagiota-Eleftheria - PRIBULLA, Theodor - VAŇKO, Martin. Refined investigation of the low-amplitude contact binary V1003 Her. In Astrophysics and Space Science, 2015, vol. 357, article no. 59, p. 1-10. (2.263 - IF2014). (2015 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0004-640X. |
| ADCA15 | PASACHOFF, Jay M. - RUŠIN, Vojtech - SANIGA, Metod - BABCOCK, Bryce A. - LU, Muzhou - DAVIS, Allen B. - DANTOWITZ, Ronald - GAINTATZIS, Pavlos - SEIRADAKIS, John H. - VOULGARIS, Aris - SEATON, Daniel B. - SHIOTA, Kazuo. Structure and dynamics of the 2012 November 13/14 eclipse white-light corona. In The Astrophysical Journal, 2015, vol. 800, article no. 90, p. 1-19. (5.993 - IF2014). (2015 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0004-637X. |
| ADCA16 | PAVLENKO, Elena - KATO, Taichi - ANTONYUK, Oksana I. - OHSHIMA, Tomohito - HAMBSCH, Franz-Josef - ANTONYUK, Kirill - SOSNOVSKIJ, Aleksei - BAKLANOV, Alexander - SHUGAROV, Sergey Yu. - PIT, Nikolai - NAKATA, Chikako - MASI, Gianluca - NAKAJIMA, Kazuhiro - MAEHARA, Hiroyuki - DUBOVSKÝ, Pavol - KUDZEJ, Igor - ANDREEV, Maksim V. - KUZNYETSOVA, Yuliana - VASILISKOV, Kirill A. NY Serpentis: SU UMa-type nova in the period gap with diversity of normal outbursts. In Publications of the Astronomical Society of Japan, 2014, vol. 66, no. 6, article no. 111, p. 1-11. (2.009 - IF2013). (2014 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0004-6264. |
| ADCA17 | PERNA, Davide - KAŇUCHOVÁ, Zuzana - IEVA, Simone - FORNASIER, Sonia - BARUCCI, Maria Antonella - LANTZ, Cateline - DOTTO, Elisabetta - STRAZZULLA, Giovanni. Short-term variability on the surface of (1) Ceres : A changing amount of water ice? In Astronomy and Astrophysics, 2015, vol. 575, article no. L1, p. 1-6. (4.378 - IF2014). (2015 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0004-6361. |
| ADCA18 | PERNA, Davide - BARUCCI, Maria Antonella - DRUBE, Line - FALKE, Albert - FULCHIGNONI, Marcello - HARRIS, Alan W. - HARRIS, Alan W. - KAŇUCHOVÁ, Zuzana. A global response roadmap to the asteroid impact threat: The NEOShield perspective. In Planetary and Space Science, 2015, vol. 118, p. 311-317. (1.875 - IF2014). (2015 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0032-0633. |
| ADCA19 | PLANAT, Michel - GIORGETTI, Alain - HOLWECK, Frédéric - SANIGA, Metod. Quantum contextual finite geometries from dessins d'enfants. In International Journal of Geometric Methods in Modern Physics, 2015, vol. 12, article no. 1550067, p. 1-18. (0.437 - IF2014). (2015 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0219-8878. |
| ADCA20 | POVINEC, Pavel - MASARIK, Jozef - SÝKORA, Ivan - KOVÁČIK, Andrej - BEŇO, Juraj - MEIER, Matthias M.M. - WIELER, Rainer - LAUBENSTEIN, Matthias - PORUBČAN, Vladimír. Cosmogenic nuclides in the Košice meteorite: Experimental investigations and Monte Carlo simulations. In Meteoritics and Planetary Science, 2015, vol. 50, no.5, p.880-892. (3.104 - IF2014). (2015 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 1086-9379. |
| ADCA21 | PRIBULLA, Theodor - GARAI, Zoltán - HAMBÁLEK, Ľubomír - KOLLÁR, Vladimír - KOMŽÍK, Richard - KUNDRA, Emil - NEDOROŠČÍK, Jozef - SEKERÁŠ, Matej - VAŇKO, Martin. Affordable échelle spectroscopy with a 60 cm telescope. In Astronomische Nachrichten, 2015, vol. 336, no. 7, p. 682-689. (0.922 - IF2014). (2015 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0004-6337. |
| ADCA22 | RAETZ, Stefanie - MACIEJEWSKI, Gracjan - SEELIGER, Martin - MARKA, Claudia - FERNANDEZ, Matilde - GÜVER, T. - GÖGÜS, E. - NOWAK, Grzegorz - VAŇKO, Martin - BERNDT, Alexandra - EISENBEISS, Thomas - MUGRAUER, Markus - TREPL, Ludwig - GELSZINNIS, J. WASP-14 b: transit timing analysis of 19 light curves. In Monthly Notices of the Royal Astronomical Society, 2015, vol. 451, p. 4139-4149. (5.107 - IF2014). (2015 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0035-8711. |
| ADCA23 | SEELIGER, Martin - KITZE, Manfred - ERRMANN, Ronny - RICHTER, S. - OHLERT, Johannes - CHEN, Wen-Ping - GUO, Jian K. - GÖGÜS, E. - GÜVER, T. - AYDIN, B. - MOTTOLA, Stefano - HELLMICH, Stephan - FERNANDEZ, Matilde - ACEITUNO, Francisco José - DIMITROV, Dinko - KJURKCHIEVA, Diana P. - JENSEN, Eric L.N. - COHEN, David H. - KUNDRA, Emil - PRIBULLA, Theodor - VAŇKO, Martin - BUDAJ, Ján - MALLONN, M. - WU, Zhen-Yu - ZHOU, Xu - RAETZ, Stefanie - ADAM, Christian - SCHMIDT, Tobias O.B. - IDE, A. - MUGRAUER, Markus - MARSCHALL, Laurence - HACKSTEIN, M. - CHINI, Rolf - HAAS, M. - AK, T. - GÜZEL, E. - ÖZDÖNMEZ, A. - GINSKI, Christian - MARKA, Claudia - SCHMIDT, Janos - DINCEL, Baha - WERNER, K. - DATHE, Anika - GREIF, J. - WOLF, V. - BUDER, S. - PANNICKE, A. - PUCHALSKI, Damian - NEUHÄUSER, Ralph. Ground-based transit observations of the HAT-P-18, HAT-P-19, HAT-P-27/WASP40 and WASP-21 systems. In Monthly Notices of the Royal Astronomical Society, 2015, vol. 451, p. 4060-4072. (5.107 - IF2014). (2015 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0035-8711. |
| ADCA24 | SEKERÁŠ, Matej - SKOPAL, Augustín. Mass-loss rate by the Mira in the symbiotic binary V1016 Cygni from Raman scattering. In The Astrophysical Journal, 2015, vol. 812, article no. 162, p. 1-8. (5.993 - IF2014). (2015 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0004-637X. |
| ADCA25 | SCHWARTZ, Pavol - GUNÁR, Stanislav - CURDT, Werner. Non-LTE modelling of prominence fine structures using hydrogen Lyman-line profiles. In Astronomy and Astrophysics, 2015, vol. 577, article no. A92, p. 1-10. (4.378 - IF2014). (2015 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0004-6361. |
| ADCA26 | SCHWARTZ, Pavol - HEINZEL, Petr - KOTRČ, Pavel - FÁRNÍK, František - KUPRYAKOV, Yurij Alexejevič - DELUCA, Edward E. - GOLUB, Leon. Total mass of six quiescent prominences estimated from their multi-spectral observations. In Astronomy and Astrophysics, 2015, vol. 574, article no. A62, p. 1-18. (4.378 - IF2014). (2015 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0004-6361. |
| ADCA27 | SCHWARTZ, Pavol - JEJČIČ, S. - HEINZEL, Petr - ANZER, Ulrich - JIBBEN, Patricia R. Prominence visibility in HINODE/XRT images. In The Astrophysical Journal, 2015, vol. 807, article no. 97, p. 1-9. (5.993 - IF2014). (2015 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0004-637X. |
| ADCA28 | SKOPAL, Augustín - CARIKOVÁ, Zuzana. Wind mass transfer in S-type symbiotic binaries : I. Focusing by the wind compression model. In Astronomy and Astrophysics, 2015, vol. 573, article no. A8, p. 1-5. (4.378 - IF2014). (2015 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0004-6361. |
| ADCA29 | SKOPAL, Augustín. Multiwavelength modeling the SED of supersoft X-ray sources III. RS Ophiuchi: The supersoft X-ray phase and beyond. In New Astronomy, 2015, vol. 34, p. 123-133. (1.146 - IF2014). (2015 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 1384-1076. |
| ADCA30 | SKOPAL, Augustín. Multiwavelength modeling the SED of supersoft X-ray sources. II. RS Ophiuchi: From the explosion to the SSS phase. In New Astronomy, 2015, vol. 36, p. 128-138. (1.146 - IF2014). (2015 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 1384-1076. |
| ADCA31 | SKOPAL, Augustín. Multiwavelength modelling the SED of supersoft X-ray sources. I. The method and examples. In New Astronomy, 2015, vol. 36, p. 116-127. (1.146 - IF2014). (2015 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 1384-1076. |
| ADCA32 | SOUTHWORTH, John - MANCINI, Luigi - CICERI, Simona - BUDAJ, Ján - DOMINIK, Martin - FIGUERA JAIMES, Roberto - HAUGBOLLE, Troels - JORGENSEN, Uffe Grae - POPOVAS, Andrius - RABUS, Markus - RAHVAR, Sohrab - VON ESSEN, Carolina - SCHMIDT, Robert W. - WERTZ, Olivier - ALSUBAI, Khalid A. - BOZZA, Valerio - BRAMICH, Daniel Martyn - CALCHI NOVATI, Sebastiano - D'AGO, Giuseppe - HINSE, Tobias Cornelius - HENNING, Thomas - HUNDERTMARK, Markus - JUNCHER, Dorte - KORHONEN, Heidi - SKOTTFELT, Jesper - SNODGRASS, Colin - STARKEY, David - SURDEJ, Jean. High-precision photometry by telescope defocusing - VII. The ultrashort period planet WASP-103. In Monthly Notices of the Royal Astronomical Society, 2015, vol. 447, p. 711-721. (5.107 - IF2014). (2015 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0035-8711. |
| ADCA33 | SVOREŇ, Ján. Distribution of brightenings of periodic comets during solar activity cycles 9-22. In Planetary and Space Science, 2015, vol. 118, p. 176-180. (1.875 - IF2014). (2015 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0032-0633. |
| ADCA34 | TOKOVININ, Andrei - PRIBULLA, Theodor - FISCHER, Debra. Radial velocities of southern visual multiple stars. In The Astronomical Journal, 2015, vol. 149, article no. 8, p. 1-9. (4.024 - IF2014). (2015 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0004-6256. |
| ADCA35 | TOMKO, Dušan. Modeling of a theoretical stream of comet 12P/Pons-Brooks. In Planetary and Space Science, 2015, vol. 118, p. 35-37. (1.875 - IF2014). (2015 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0032-0633. |
| ADCA36 | TÓTH, Juraj - SVOREŇ, Ján - BOROVIČKA, Jiří - SPURNÝ, Pavel - IGAZ, Antal - KORNOŠ, Leoš - VEREŠ, Peter - HUSÁRIK, Marek - KOZA, Július - KUČERA, Aleš - ZIGO, Pavol - GAJDOŠ, Štefan - VILÁGI, Jozef - ČAPEK, David - SEMAN KRIŠANDOVÁ, Zuzana - TOMKO, Dušan - ŠILHA, Jiří - SCHUNOVÁ, Eva - BODNÁROVÁ, Marcela - BÚZOVÁ, Diana - KREJČOVÁ, Tereza. The Košice meteorite fall: Recovery and strewn field. In Meteoritics and Planetary Science, 2015, vol. 50, no. 5, p. 853-863. (3.104 - IF2014). (2015 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 1086-9379. |
| ADCA37 | VAŇKO, Martin - EVANS, Phil - TAN, Thiam-Guan. The refined physical properties of the transiting exoplanetary system WASP-41. In Astronomische Nachrichten, 2015, vol. 336, no. 2, p. 145-152. (0.922 - IF2014). (2015 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0004-6337. |
| ADCA38 | WOODS, Paul M. - OCCHIOGROSSO, Angela - VITI, Serena - KAŇUCHOVÁ, Zuzana - PALUMBO, Maria Elisabetta - PRICE, Stephen D. A new study of an old sink of sulphur in hot molecular cores: the sulphur residue. In Monthly Notices of the Royal Astronomical Society, 2015, vol. 450, p. 1256-1267. (5.107 - IF2014). (2015 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0035-8711. |

**ADEB Scientific papers in other foreign journals**

|  |  |
| --- | --- |
| ADEB01 | HAMBÁLEK, Ľubomír. Modelling secondary eclipses of Kepler exoplanets. In EPJ Web of Conferences, 2015, vol. 101, article no. 06031, p. 1-2. ISSN 2100-014X. Názov prebraný z titulnej strany. Dostupné na internete: <http://www.epj-conferences.org/>. |
| ADEB02 | NESLUŠAN, Luboš. The Ni's solution for neutron star and outward oriented gravitational attraction in its interior. In Journal of Modern Physics, 2015, vol. 6, p. 2164-2183. ISSN 2153-1196. Dostupné na internete: <http://www.scirp.org/journal/jmp/>. |
| ADEB03 | NESLUŠAN, Luboš. Neutrinos as the particles with mixed interaction and prediction of large neutrino-neutrino collisional cross-section. In Journal of Modern Physics, 2015, vol. 6, p. 1756-1767. ISSN 2153-1196. Dostupné na internete: <http://www.scirp.org/journal/jmp/>. |
| ADEB04 | SANIGA, Metod - HAVLICEK, Hans - HOLWECK, Frédéric - PLANAT, Michel - PRACNA, Petr. Veldkamp-space aspects of a sequence of nested binary Segre varieties. In Annales de l'Institut Henri Poincaré D. Combinatorics, Physics and their Interactions, 2015, vol. 2, no. 3, p.309-333. ISSN 2308-5827. |
| ADEB05 | UTZ, Dominik - DEL TORO INIESTA, J.C. - BELLOT RUBIO, L.R. - JURČÁK, Ján - THONHOFER, S. - BODNÁROVÁ, Marcela - HANSLMEIER, Arnold - LEMMERER, B. - PIANTSCHITSCH, I. - GUTTENBRUNNER, S. New insights into the temporal evolution of MBPS. In Central European Astrophysical Bulletin, 2014, vol. 38, p. 73-79. (2014 - NASA ADS). ISSN 1845-8319. |
| ADEB06 | UTZ, Dominik - DEL TORO INIESTA, J.C. - BELLOT RUBIO, L.R. - BODNÁROVÁ, Marcela - MULLER, R. - BÁRTA, Miroslav - THONHOFER, S. - HANSLMEIER, Arnold. Long time variations of magnetic bright points observed by HINODE/SOT. In Central European Astrophysical Bulletin, 2015, vol. 39, p. 91-100. (2015 - NASA ADS). ISSN 1845-8319. |

**ADMB Scientific papers in international journals registered in the Web of Science or Scopus Core Collection**

|  |  |
| --- | --- |
| ADMB01 | SANIGA, Metod. The complement of binary Klein quadric as a combinatorial Grassmannian. In Mathematics, 2015, vol. 3, no. 2, p. 481-486. ISSN 2227-7390. Názov prebraný z titulnej strany. Dostupné na internete: <http://www.mdpi.com/journal/mathematics>. |
| ADMB02 | SANIGA, Metod - HOLWECK, Frédéric - PRACNA, Petr. From Cayley-Dickson algebras to combinatorial Grassmannians. In Mathematics, 2015, vol. 3, no. 4, p. 1192-1221. ISSN 2227-7390. Názov prebraný z titulnej strany. Dostupné na internete: <http://www.mdpi.com/journal/mathematics>. |

**ADNA Scientific papers in domestic impact journals registered in the Web of Science or Scopus Core Collection**

|  |  |
| --- | --- |
| ADNA01 | HAMBÁLEK, Ľubomír. U B V R\_C I\_C photometry and modelling of AO Ser. In Contributions of the Astronomical Observatory Skalnaté Pleso, 2015, vol. 45, p. 106-118. (0.591 - IF2014). (2015 - WOS, SCOPUS, NASA ADS). ISSN 1335-1842. |
| ADNA02 | NEDOROŠČÍK, Jozef - VAŇKO, Martin - PRIBULLA, Theodor. Eclipsing binaries in ASAS and NSVS databases: Fourier analysis. In Contributions of the Astronomical Observatory Skalnaté Pleso, 2015, vol. 45, p. 17-27. (0.591 - IF2014). (2015 - WOS, SCOPUS, NASA ADS). ISSN 1335-1842. |
| ADNA03 | NESLUŠAN, Luboš. A summary of the research of Geminid meteoroid stream. In Contributions of the Astronomical Observatory Skalnaté Pleso, 2015, vol. 45, p. 60-82. (0.591 - IF2014). (2015 - WOS, SCOPUS, NASA ADS). ISSN 1335-1842. |
| ADNA04 | SHAGATOVA, Natalia. On the effect of ionization on the circumbinary material in symbiotic systems. In Contributions of the Astronomical Observatory Skalnaté Pleso, 2015, vol. 45, p. 89-98. (0.591 - IF2014). (2015 - WOS, SCOPUS, NASA ADS). ISSN 1335-1842. |
| ADNA05 | SHUGAROV, Sergey Yu. - KATYSHEVA, Natalia A. - GLADILINA, N. PR Her - a WZ Sge-type cataclysmic variable. In Contributions of the Astronomical Observatory Skalnaté Pleso, 2015, vol. 45, p. 119-130. (0.591 - IF2014). (2015 - WOS, SCOPUS, NASA ADS). ISSN 1335-1842. |
| ADNA06 | SVOREŇ, Ján. Distribution of the activity of the Sun during an average solar cycle. In Contributions of the Astronomical Observatory Skalnaté Pleso, 2015, vol. 45, p. 131-136. (0.591 - IF2014). (2015 - WOS, SCOPUS, NASA ADS). ISSN 1335-1842. |
| ADNA07 | VAŇKO, Martin - KOLLÁR, Vladimír - KOMŽÍK, Richard - KOZA, Július - PRIBULLA, Theodor. Photoelectric photometry era at the Astronomical Institute of the Slovak Academy of Sciences III. Fast photometry. In Contributions of the Astronomical Observatory Skalnaté Pleso, 2015, vol. 45, p. 99-105. (0.591 - IF2014). (2015 - WOS, SCOPUS, NASA ADS). ISSN 1335-1842. |

**AFC Published contributions to international scientific conferences**

|  |  |
| --- | --- |
| AFC01 | CHOCHOL, Drahomír - SHUGAROV, Sergey Yu. - KATYSHEVA, Natalia A. - VOLKOV, Igor - ZHAROVA, Alla V. - PAVLENKO, Elena - PIT, Nikolai - ZVAGELSKY, Roman - ANTONIUK, O. - ANTONIUK, K. - BAKLANOV, Aleksei - BORISOV, Nikolay V. - GABDEEV, Maksim M. Superoutburst of a new sub-period-minimum dwarf nova CSS130418 in Hercules. In Acta Polytechnica CTU Proceedings, 2015, vol. 2, no. 1, p. 165-169. ISSN 2336-5382. The Golden Age of Cataclysmic Variables and Related Objects, Editors Franco Giovannelli, Lola Sabau-Graziati, ISBN 978-80-01-05688-2. |
| AFC02 | KATYSHEVA, Natalia A. - SHUGAROV, Sergey Yu. - BORISOV, Nikolay V. - GABDEEV, Maksim M. - GOLYSHEVA, Polina Yu. Photometric and spectroscopic investigation of the dwarf nova HS 0218+3229: A short review. In Acta Polytechnica CTU Proceedings, 2015, vol. 2, no. 1, p. 123-127. ISSN 2336-5382. The Golden Age of Cataclysmic Variables and Related Objects, Editors Franco Giovannelli, Lola Sabau-Graziati, ISBN 978-80-01-05688-2. |
| AFC03 | SEKERÁŠ, Matej - SKOPAL, Augustín. Diagnostic of the symbiotic stars environment by Thomson, Raman and Rayleigh scattering processes. In Acta Polytechnica CTU Proceedings, 2015, vol.2, no. 1, p. 282-285. ISSN 2336-5382. The Golden Age of Cataclysmic Variables and Related Objects, Editors Franco Giovannelli, Lola Sabau-Graziati, ISBN 978-80-01-05688-2. |
| AFC04 | SKOPAL, Augustín - SEKERÁŠ, Matej - TOMOV, N.A. - TOMOVA, M.T. - TARASOVA, Taissiia Natasha - WOLF, Marek. What powers the 2006 outburst of the symbiotic star BF Cygni? In Acta Polytechnica CTU Proceedings, 2015, vol. 2, no. 1, p. 277-281. ISSN 2336-5382. The Golden Age of Cataclysmic Variables and Related Objects, Editors Franco Giovannelli, Lola Sabau-Graziati, ISBN 978-80-01-05688-2. |
| AFC05 | STRACHAN, L. - KO, Y.-K. - MOSES, J.D. - LAMING, J.M. - AUCHERE, F. - CASINI, R. - FINESCHI, Silvano - GIBSON, S. - KNOELKER, M. - KORENDYKE, C. - MCINTOSH, S. - ROMOLI, M. - RYBÁK, Ján - SOCKER, D. - TOMCZYK, Steve - VOURLIDAS, Angelos - WU, Q. Waves and magnetism in the solar atmosphere (WAMIS). In Polarimetry: From the Sun to Stars and Stellar Environments : Proceedings of IAU Symposium vol. 305. Edited by K.N. Nagendra, Stefano Bagnulo, Rebecca Centeno and Maria Jesus Martinez Gonzalez. - Cambridge : Cambridge University Press, 2015, p. 121-126. ISBN 9781107078550. |

|  |  |
| --- | --- |
| BEE01 | GÁLIS, Rudolf - HRIC, Ladislav - LEEDJÄRV, Laurits. Outburst activity driven by evolved pulsating star in the symbiotic binary AG Dra. In The Physics of Evolved Stars: A conference dedicated to the Memory of Olivier Chesneau : EAS Publication Series volume 71-72. - Les Ulis : EDP Sciences, 2015, p. 103-105. ISBN 978-2-7598-1907-2. |
| BEE02 | GÁLIS, Rudolf - HRIC, Ladislav - LEEDJÄRV, Laurits - KUNDRA, Emil. Outburst activity of the symbiotic system AG Dra. In Living Together: Planets, Host Stars, and Binaries : ASP Conference Series Vol. 496. - San Francisco : Astronomical Society of the Pacific, 2015, p. 240-241. ISBN 978-1-58381-876-3. |
| BEE03 | GARAI, Zoltán - PRIBULLA, Theodor. Search for young transiting exoplanets in NGC 7243: First results. In Living Together: Planets, Host Stars, and Binaries : ASP Conference Series Vol. 496. - San Francisco : Astronomical Society of the Pacific, 2015, p.358-359. ISBN 978-1-58381-876-3. |
| BEE04 | GARAI, Zoltán. Search for a circum-planetary material of short-period Kepler exoplanet candidates: results based on 17 quarter data. In 13th International Conference on Applications of Natural, Technological and Economic Sciences [elektronický zdroj]. - Szombathely : University of West Hungary, 2015, p. 17-22. ISBN 978-963-359-039-3.  |
| BEE05 | GARAI, Zoltán. Search for young transiting exoplanets in the open cluster NGC 7243 - The exoplanet candidate J221550.6+495611. In 14th International Conference on Applications of Natural, Technological and Economic Sciences [elektronický zdroj]. - Szombathely : University of West Hungary, 2015, p. 49-55. ISBN 978-963-359-053-9.  |
| BEE06 | GOLYSHEVA, Polina Yu. - SHUGAROV, Sergey Yu. - KATYSHEVA, Natalia A. - KHRUZINA, T. Observation and light curve analysis of three eclipsing dwarf novae. In Living Together: Planets, Host Stars, and Binaries : ASP Conference Series Vol. 496. - San Francisco : Astronomical Society of the Pacific, 2015, p. 231-235. ISBN 978-1-58381-876-3. |
| BEE07 | GORANSKIJ, Vitalij P. - METLOVA, Natalia V. - ZHAROVA, Alla V. - SHUGAROV, Sergey Yu. - BARSUKOVA, Elena A. - KROLL, Peter. Unveiling the nature of red novae cool explosions using archive plate photometry. In Astroplate 2014. - Prague : Institute of Chemical Technology, 2014, p. 95-98. ISBN 978-80-7080-918-1. |
| BEE08 | CHOCHOL, Drahomír - IKONNIKOVA, N. - KATYSHEVA, Natalia A. - SHUGAROV, Sergey Yu. - VOLKOV, Igor. Multicolor photometry of the novae V339 Del and V2659 Cyg. In Living Together: Planets, Host Stars, and Binaries : ASP Conference Series Vol. 496. - San Francisco : Astronomical Society of the Pacific, 2015, p. 237-239. ISBN 978-1-58381-876-3. |
| BEE09 | KHRUZINA, T. - KATYSHEVA, Natalia A. - GOLYSHEVA, Polina Yu. - SHUGAROV, Sergey Yu.. Optical variability analysis of UU Aqr - an eclipsing nova-like system. In The Physics of Evolved Stars: A conference dedicated to the Memory of Olivier Chesneau : EAS Publication Series volume 71-72. - Les Ulis : EDP Sciences, 2015, p. 149-150. ISBN 978-2-7598-1907-2. |
| BEE10 | KREIBIKOVÁ, Zuzana - SKOPAL, Augustín. On the origin of the Raman scattered O VI 1032 angstrom line during outbursts and quiescent phases of the symbiotic binary AG Dra. In Living Together: Planets, Host Stars, and Binaries : ASP Conference Series Vol. 496. - San Francisco : Astronomical Society of the Pacific, 2015, p. 250-251. ISBN 978-1-58381-876-3. |
| BEE11 | MIKULÁŠEK, Zdeněk - ZEJDA, Miloš - PRIBULLA, Theodor - VAŇKO, Martin - QIAN, Sheng-Bang - ZHU, Li-Ying. The concept of few-parameter modeling of eclipsing binary and exoplanet transit light curves. In Living Together: Planets, Host Stars, and Binaries : ASP Conference Series Vol. 496. - San Francisco : Astronomical Society of the Pacific, 2015, p. 176-180. ISBN 978-1-58381-876-3. |
| BEE12 | PARIMUCHA, Štefan - VAŇKO, Martin. Testing phase of the telescope ŽIGA: Initial results. In Living Together: Planets, Host Stars, and Binaries : ASP Conference Series Vol. 496. - San Francisco : Astronomical Society of the Pacific, 2015, p. 309-310. ISBN 978-1-58381-876-3. |
| BEE13 | PLÁVALOVÁ, Eva. Classification of extrasolar planets: New horizons. In Living Together: Planets, Host Stars, and Binaries : ASP Conference Series Vol. 496. - San Francisco : Astronomical Society of the Pacific, 2015, p. 375-377. ISBN 978-1-58381-876-3. |
| BEE14 | PLÁVALOVÁ, Eva - SOLOVAYA, Nina. Analysis of the motion of the extrasolar planet HD 120136 Ab in a binary system: Calculating unknown angular orbital elements. In Living Together: Planets, Host Stars, and Binaries : ASP Conference Series Vol. 496. - San Francisco : Astronomical Society of the Pacific, 2015, p. 400-404. ISBN 978-1-58381-876-3. |
| BEE15 | SEKERÁŠ, Matej - SKOPAL, Augustín. Raman-scattered HEII 1025 line in the symbiotic binary V1016 Cyg as a diagnostic tool of the wind from its Mira-type donor. In The Physics of Evolved Stars: A conference dedicated to the Memory of Olivier Chesneau : EAS Publication Series volume 71-72. - Les Ulis : EDP Sciences, 2015, p. 193-194. ISBN 978-2-7598-1907-2. |
| BEE16 | SEKERÁŠ, Matej - SKOPAL, Augustín. Ionization structure of the symbiotic binary V1016 Cyg from Raman scattering of the He II 1025 angstrom line. In Living Together: Planets, Host Stars, and Binaries : ASP Conference Series Vol. 496. - San Francisco : Astronomical Society of the Pacific, 2015, p. 243-244. ISBN 978-1-58381-876-3. |
| BEE17 | SHAGATOVA, Natalia - SKOPAL, Augustín. Indication of the high mass-transfer ratio in S-type symbiotic binaries. In The Physics of Evolved Stars: A conference dedicated to the Memory of Olivier Chesneau : EAS Publication Series volume 71-72. - Les Ulis : EDP Sciences, 2015, p. 195-196. ISBN 978-2-7598-1907-2. |
| BEE18 | SHAGATOVA, Natalia - SKOPAL, Augustín. An indication of the enhanced circumstellar matter near the orbital plane of the symbiotic star EG And. In Living Together: Planets, Host Stars, and Binaries : ASP Conference Series Vol. 496. - San Francisco : Astronomical Society of the Pacific, 2015, p. 245-246. ISBN 978-1-58381-876-3. |
| BEE19 | SHUGAROV, Sergey Yu. - ESIPOV, Valentin F. - KOLOTILOV, Eugene - KOMISSAROVA, Galina - SHENAVRIN, Viktor, I. - TARASOVA, Taissiia Natasha - TATARNIKOV, Andrey M. - TATARNIKOVA, Anna A. Photometric and spectroscopic behavior of V407 Cygni during 2010-2012. In Stella Novae: Past and Future Decades : ASP Conference Series, Vol. 490. - San Francisco : Astronomical Society of the Pacific, 2014, p. 373-376. ISBN 978-1-58381-864-0. |
| BEE20 | SHUGAROV, Sergey Yu. - SKOPAL, Augustín - SEKERÁŠ, Matej - KOMISSAROVA, Galina - WOLF, Marek. Rapid photometric variability of the symbiotic system CH Cyg during 2008-15. In The Physics of Evolved Stars: A conference dedicated to the Memory of Olivier Chesneau: EAS Publ. Series volume 71-72. - Les Ulis: EDP Sciences, 2015, p. 107-108. ISBN 978-2-7598-1907-2. |
| BEE21 | SHUGAROV, Sergey Yu. - PAVLENKO, Elena - CHOCHOL, Drahomír - MALANUSHENKO, Viktor - RUMIANTSEVA, I. - KATYSHEVA, Natalia A. Photometric observations of Nova Mon 2012 = V959 Mon = Fermi J0639+0548. In Stella Novae: Past and Future Decades : ASP Conference Series, Vol. 490. - San Francisco : Astronomical Society of the Pacific, 2014, p. 217-220. ISBN 978-1-58381-864-0. |
| BEE22 | SHUGAROV, Sergey Yu. - KOLOTILOV, Eugene - SOKOLOVSKY, Kirill V. Improvement of the orbital period of the symbiotic binary FG Ser by using archival photographic and new photoelectric observations. In Astroplate 2014. - Prague : Institute of Chemical Technology, 2014, p. 115-118. ISBN 978-80-7080-918-1. |
| BEE23 | SHUGAROV, Sergey Yu. - SKOPAL, Augustín - KOLOTILOV, Eugene. Investigation of a wide eclipsing binary system - the symbiotic star FG Ser = AS 296. In Living Together: Planets, Host Stars, and Binaries : ASP Conference Series Vol. 496. - San Francisco : Astronomical Society of the Pacific, 2015, p. 247-249. ISBN 978-1-58381-876-3. |
| BEE24 | SKOPAL, Augustín. Multiwavelength modeling the SED of very slow novae PU Vulpeculae and V723 Cassiopeiae. In Stella Novae: Past and Future Decades : ASP Conference Series, Vol. 490. - San Francisco : Astronomical Society of the Pacific, 2014, p. 211-215. ISBN 978-1-58381-864-0. |
| BEE25 | SKOPAL, Augustín - SEKERÁŠ, Matej - SHAGATOVA, Natalia. Evolved stars as donors in symbiotic binaries. In The Physics of Evolved Stars: A conference dedicated to the Memory of Olivier Chesneau : EAS Publication Series volume 71-72. - Les Ulis : EDP Sciences, 2015, p. 189-192. ISBN 978-2-7598-1907-2. |
| BEE26 | SKOPAL, Augustín. On the diversity and similarity of outbursts of symbiotic binaries and cataclysmic variables. In Living Together: Planets, Host Stars, and Binaries : ASP Conference Series Vol. 496. - San Francisco : Astronomical Society of the Pacific, 2015, p. 226-230. ISBN 978-1-58381-876-3. |
| BEE27 | VAŇKO, Martin - TORRES, Guillermo - PRIBULLA, Theodor - PARIMUCHA, Štefan - KRUSHEVSKA, Victoria - NEUHÄUSER, Ralph - SHUGAROV, Sergey Yu. - HAMBÁLEK, Ľubomír - KUNDRA, Emil - NEDOROŠČÍK, Jozef - GARAI, Zoltán. Long-term photometric and spectroscopic variability of V501 Aur. In Living Together: Planets, Host Stars, and Binaries : ASP Conference Series Vol. 496. - San Francisco : Astronomical Society of the Pacific, 2015, p. 262-263. ISBN 978-1-58381-876-3. |
| BEE28 | VAŇKO, Martin - PRIBULLA, Theodor - TAN, Thiam-Guan - PARIMUCHA, Štefan - EVANS, Phil - MAŠEK, Martin. WASP-41b: Refined physical properties. In Living Together: Planets, Host Stars, and Binaries : ASP Conference Series Vol. 496. - San Francisco : Astronomical Society of the Pacific, 2015, p. 360-361. ISBN 978-1-58381-876-3. |
| BEE29 | VOLKOV, Igor - BAGAEV, L.A. - CHOCHOL, Drahomír. Fast apsidal motion in GSC 4292-0745. In Living Together: Planets, Host Stars, and Binaries : ASP Conference Series Vol. 496. - San Francisco : Astronomical Society of the Pacific, 2015, p. 266-268. ISBN 978-1-58381-876-3. |

***YEAR 2014***

**ABC Chapters in scientific monographs published by a foreign publisher**

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| --- | --- |
| ABC01 | BECCIANI, Ugo - SCIACCA, Eva - COSTA, Alessandro - MASSIMINO, Piero - VITELLO, Fabio - CASSISI, Santi - PIETRINFERNI, Adriano - CASTELLI, Giuliano - KNAPIC, Cristina - SMAREGLIA, Riccardo - TAFFONI, Giuliano - VUERLI, Claudio - JAKUBÍK, Marián - NESLUŠAN, Luboš - KROKOS, Mel - ZHAO, Gong-Bo. Creating gateway alliances using WS-PGRADE/gUSE. In Science Gateways for Distributed Computing Infrastructures : Development Framework and Exploitation by Scientific User Communities. - Cham : Springer International Publishing, 2014, p. 255-270. ISBN 978-3-319-11267-1. |
| ABC02 | SANIGA, Metod. Geometry of Psychological Time. In Direction of Time. - New York : Springer International Publishing, 2014, p. 171-186. ISBN 978-3-319-02797-5. |

**ADCA Scientific papers in international scientific journals with impact factor**

|  |  |
| --- | --- |
| ADCA01 | BODNÁROVÁ, Marcela - UTZ, Dominik - RYBÁK, Ján. On dynamics of G-band bright points. In Solar Physics, 2014, vol. 289, p. 1543-1556. (3.805 - IF2013). (2014 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0038-0938. |
| ADCA02 | CARIKOVÁ, Zuzana - SKOPAL, Augustín. The applicability of the wind compression model : (Research note). In Astronomy and Astrophysics, 2014, vol. 570, article no. A4, p. 1-3. (4.479 - IF2013). (2014 - Current Contents, SCOPUS, NASA ADS). ISSN 0004-6361. |
| ADCA03 | ERRMANN, Ronny - TORRES, Guillermo - SCHMIDT, Tobias O.B. - SEELIGER, Martin - HOWARD, Andrew W. - MACIEJEWSKI, Gracjan - NEUHÄUSER, Ralph - MEIBOM, Soren - KELLERER, Aglae - DIMITROV, Dinko - DINCEL, Baha - MARKA, Claudia - MUGRAUER, Markus - GINSKI, Christian - ADAM, Christian - RAETZ, Stefanie - SCHMIDT, Janos - HOHLE, Markus M. - BERNDT, Alexandra - KITZE, Manfred - TREPL, Ludwig - MOUALLA, Mohammad - EISENBEISS, Thomas - FIEDLER, Simone - DATHE, Anika - GRAEFE, Christian - PAWELLEK, Nicole - SCHREYER, Katharina - KJURKCHIEVA, Diana P. - RADEVA, Veselka S. - YOTOV, Vergil - CHEN, Wen-Ping - HU, Seline Chia-Ling - WU, Zhen-Yu - ZHOU, Xu - PRIBULLA, Theodor - BUDAJ, Ján - VAŇKO, Martin - KUNDRA, Emil - HAMBÁLEK, Ľubomír - KRUSHEVSKA, Victoria - BUKOWIECKI, Lukasz - NOWAK, Grzegorz - MARSCHALL, Laurence - TERADA, Hiroshi - TOMONO, Daigo - FERNANDEZ, Matilde - SOTA, Alfredo - TAKAHASHI, Hidenori - OASA, Yumiko - BRICENO, Cesar - CHINI, Rolf - BROEG, Christopher Hans. Investigation of a transiting planet candidate in Trumpler 37: An astrophysical false positive eclipsing spectroscopic binary star. In Astronomische Nachrichten, 2014, vol. 335, no. 4, p. 345-356. (1.119 - IF2013). (2014 - Current Contents, SCOPUS, NASA ADS). ISSN 0004-6337. |
| ADCA04 | GARAI, Zoltán - ZHOU, G. - BUDAJ, Ján - STELLINGWERF, R.F. Search for circum-planetary material and orbital period variations of short period Kepler exoplanet candidates. In Astronomische Nachrichten, 2014, vol. 335, no. 10, p. 1018-1036. (1.119 - IF2013). (2014 - Current Contents, SCOPUS, NASA ADS). ISSN 0004-6337. |
| ADCA05 | GUNÁR, Stanislav - SCHWARTZ, Pavol - DUDÍK, Jaroslav - SCHMIEDER, Brigitte - HEINZEL, Petr - JURČÁK, Ján. Magnetic field and radiative transfer modelling of a quiescent prominence. In Astronomy and Astrophysics, 2014, vol. 567, article no. A123, p. 1-16. (4.479 - IF2013). (2014 - Current Contents, SCOPUS, NASA ADS). ISSN 0004-6361. |
| ADCA06 | HAJDUKOVÁ, Mária, Jr. - KORNOŠ, Leoš - TÓTH, Juraj. Frequency of hyperbolic and interstellar meteoroids. In Meteoritics and Planetary Science, 2014, vol. 49, no.1, p. 63-68. (2.827 - IF2013). (2014 - Current Contents, SCOPUS, NASA ADS). ISSN 1086-9379. |
| ADCA07 | HOLWECK, Frédéric - SANIGA, Metod - LÉVAY, Péter. A notable relation between N-qubit and 2^{N-1}-qubit Pauli group via binary LGr(N,2N). In Symmetry, Integrability and Geometry: Methods and Applications, 2014, vol. 10, article no. 041, p. 1-16. (1.299 - IF2013). (2014 - Current Contents, SCOPUS). ISSN 1815-0659. Dostupné na internete: <www.emis.de/journals/SIGMA>. |
| ADCA08 | HORŇÁČKOVÁ, Michaela - PLAVČAN, Jozef - RAKOVSKÝ, Jozef - PORUBČAN, Vladimír - OZDIN, Daniel - VEIS, Pavel. Calibration-free laser induced breakdown spectroscopy as an alternative method for found meteorite fragments analysis. In The European Physical Journal : Applied Physics, 2014, vol. 66, article no. 10702, p. 1-10. (0.789 - IF2013). (2014 - Current Contents, NASA ADS). ISSN 1286-0042. |
| ADCA09 | HRIC, Ladislav - BREUS, Vitalij - KATYSHEVA, Natalia A. - SHUGAROV, Sergey Yu. - DUBOVSKÝ, Pavol. The new period of the intermediate polar V709 Cas. In Astronomische Nachrichten, 2014, vol. 335, no. 4, p. 362-366. (1.119 - IF2013). (2014 - Current Contents, SCOPUS, NASA ADS). ISSN 0004-6337. |
| ADCA10 | HRIC, Ladislav - GÁLIS, Rudolf - LEEDJÄRV, Laurits - BURMEISTER, Mary - KUNDRA, Emil. Outburst activity of the symbiotic system AG Dra. In Monthly Notices of the Royal Astronomical Society, 2014, vol. 443, p. 1103-1112. (5.226 - IF2013). (2014 - Current Contents, SCOPUS, NASA ADS). ISSN 0035-8711. |
| ADCA11 | KATO, Taichi - HAMBSCH, Franz-Josef - MAEHARA, Hiroyuki - MASI, Gianluca - NOCENTINI, Francesca - DUBOVSKÝ, Pavol - KUDZEJ, Igor - IMAMURA, Kazuyoshi - OGI, Minako - TANABE, Kenji - AKAZAWA, Hidehiko - KRAJCI, Thomas - MILLER, Ian - DE MIGUEL, Enrique - HENDEN, Arne - NOGUCHI, Ryo - ISHIBASHI, Takehiro - ONO, Rikako - KAWABATA, Miho - KOBAYASHI, Hiroshi - SAKAI, Daisuke - NISHINO, Hirochika - FURUKAWA, Hisami - MASUMOTO, Kazunari - MATSUMOTO, Katsura - LITTLEFIELD, Colin - OHSHIMA, Tomohito - NAKATA, Chikako - HONDA, Satoshi - KINUGASA, Kenzo - HASHIMOTO, Osamu - STEIN, William - PICKARD, Roger - KIYOTA, Seiichiro - PAVLENKO, Elena - ANTONYUK, Oksana I. - BAKLANOV, Aleksei - ANTONYUK, Kirill - SAMSONOV, Denis A. - PIT, Nikolai - SOSNOVSKIJ, Aleksei - OKSANEN, Arto - HARLINGTEN, Caisey - TYYSKA, Jenni - MONARD, Berto - SHUGAROV, Sergey Yu. - CHOCHOL, Drahomír - KASAI, Kiyoshi - MAEDA, Yutaka - HIROSAWA, Kenji - ITOH, Hiroshi - SABO, Richard - ULOWETZ, Joseph - MORELLE, Etienne - MICHEL, Raul - SUAREZ, Genaro - JAMES, Nick - DVORAK, Shawn - VOLOSHINA, Irina - RICHMOND, Michael - STAELS, Bart - BOYD, David - ANDREEV, Maksim V. - PARAKHIN, Nikolay A. - KATYSHEVA, Natalia A. - MIYASHITA, Atsushi - NAKAJIMA, Kazuhiro - BOLT, Greg - PADOVAN, Stefano - NELSON, Peter - STARKEY, Donn - BUCZYNSKI, Denis - STARR, Peter - GOFF, William N. - DENISENKO, Denis - KOCHANEK, Christopher S. - SHAPPEE, Benjamin - STANEK, Krzysztof Z. - PRIETO, Jose L. - ITAGAKI, Koh-ichi - KANEKO, Shizuo - STUBBINGS, Rod - MUYLLAERT, Eddy - SHEARS, Jeremy - SCHMEER, Patrick - POYNER, Gary - RODRIGUEZ-MARCO, Miguel. Survey of period variations of superhumps in SU UMa-type dwarf novae. V. The fifth year (2012-2013). In Publications of the Astronomical Society of Japan, 2014, vol. 66, no. 2, article no. 30, p. 1-83. (2.009 - IF2013). (2014 - Current Contents). ISSN 0004-6264. |
| ADCA12 | KATO, Taichi - DUBOVSKÝ, Pavol - KUDZEJ, Igor - HAMBSCH, Franz-Josef - MILLER, Ian - OHSHIMA, Tomohito - NAKATA, Chikako - KAWABATA, Miho - NISHINO, Hirochika - MASUMOTO, Kazunari - MIZOGUCHI, Sahori - YAMANAKA, Masayuki - MATSUMOTO, Katsura - SAKAI, Daisuke - FUKUSHIMA, Daiki - MATSUURA, Minami - BOUNO, Genki - TAKENAKA, Megumi - NAKAGAWA, Shinichi - NOGUCHI, Ryo - IINO, Eriko - PICKARD, Roger - MAEDA, Yutaka - HENDEN, Arne - KASAI, Kiyoshi - KIYOTA, Seiichiro - AKAZAWA, Hidehiko - IMAMURA, Kazuyoshi - DE MIGUEL, Enrique - MAEHARA, Hiroyuki - MONARD, Berto - PAVLENKO, Elena - ANTONYUK, Kirill - PIT, Nikolai - ANTONYUK, Oksana I. - BAKLANOV, Aleksei - RUIZ, Javier - RICHMOND, Michael - OKSANEN, Arto - HARLINGTEN, Caisey - SHUGAROV, Sergey Yu. - CHOCHOL, Drahomír - MASI, Gianluca - NOCENTINI, Francesca - SCHMEER, Patrick - BOLT, Greg - NELSON, Peter - ULOWETZ, Joseph - SABO, Richard - GOFF, William N. - STEIN, William - MICHEL, Raul - DVORAK, Shawn - VOLOSHINA, Irina - METLOV, Vladimir G. - KATYSHEVA, Natalia A. - NEUSTROEV, Vitaly V. - SJOBERG, George - LITTLEFIELD, Colin - DEBSKI, Bartlomiej - SOWICKA, Paulina - KLIMASZEWSKI, Marcin - CURYLO, Malgorzata - MORELLE, Etienne - CURTIS, Ivan A. - IWAMATSU, Hidetoshi - BUTTERWORTH, Neil - ANDREEV, Maksim V. - PARAKHIN, Nikolay A. - SKLYANOV, Aleksandr - SHIOKAWA, Kazuhiko - NOVÁK, Rudolf - IRSMAMBETOVA, Tatyana R. - ITOH, Hiroshi - ITO, Yoshiharu - HIROSAWA, Kenji - DENISENKO, Denis - KOCHANEK, Christopher S. - SHAPPEE, Benjamin - STANEK, Krzysztof Z. - PRIETO, Jose L. - ITAGAKI, Koh-ichi - STUBBINGS, Rod - RIPERO, Jose - MUYLLAERT, Eddy - POYNER, Gary. Survey of period variations of superhumps in SU UMa-type dwarf novae. VI. The sixth year (2013-2014). In Publications of the Astronomical Society of Japan, 2014, vol. 66, no. 5, article no. 90, p. 1-71. (2.009 - IF2013). (2014 - Current Contents). ISSN 0004-6264. |
| ADCA13 | KATO, Taichi - OHSHIMA, Tomohito - DENISENKO, Denis - DUBOVSKÝ, Pavol - KUDZEJ, Igor - STEIN, William - DE MIGUEL, Enrique - HENDEN, Arne - MILLER, Ian - ANTONYUK, Kirill - ANTONYUK, Oksana I. - PIT, Nikolai - SOSNOVSKIJ, Aleksei - BAKLANOV, Aleksei - BABINA, Julia - PAVLENKO, Elena - MASUMOTO, Kazunari - FUKUSHIMA, Daiki - TAKENAKA, Megumi - KAWABATA, Miho - SAKAI, Daisuke - MAEDA, Kazuki - MATSUDA, Risa - MATSUMOTO, Katsura - LITTLEFIELD, Colin - OKSANEN, Arto - ITOH, Hiroshi - MASI, Gianluca - NOCENTINI, Francesca - SCHMEER, Patrick - PICKARD, Roger - KIYOTA, Seiichiro - DVORAK, Shawn - ULOWETZ, Joseph - MAEDA, Yutaka - MICHEL, Raul - SHUGAROV, Sergey Yu. - CHOCHOL, Drahomír - NOVÁK, Rudolf. Superoutburst of SDSS J090221.35+381941.9: First measurement of mass ratio in an AM CVn-type object using growing superhumps. In Publications of the Astronomical Society of Japan, 2014, vol. 66, no. 5, article no. L7, p. 1-7. (2.009 - IF2013). (2014 - Current Contents). ISSN 0004-6264. |
| ADCA14 | KOHOUT, Tomáš - HAVRILA, Karol - TÓTH, Juraj - HUSÁRIK, Marek - GRITSEVICH, Maria - BRITT, Daniel - BOROVIČKA, Jiří - SPURNÝ, Pavel - IGAZ, Antal - SVOREŇ, Ján - KORNOŠ, Leoš - VEREŠ, Peter - KOZA, Július - ZIGO, Pavol - GAJDOŠ, Štefan - VILÁGI, Jozef - ČAPEK, David - KRIŠANDOVÁ, Zuzana - TOMKO, Dušan - ŠILHA, Jiří - SCHUNOVÁ, Eva - BODNÁROVÁ, Marcela - BÚZOVÁ, Diana - KREJČOVÁ, Tereza. Density, porosity and magnetic susceptibility of the Košice meteorite shower and homogeneity of its parent meteoroid. In Planetary and Space Science, 2014, vol. 93-94, p. 96-100. (1.630 - IF2013). (2014 - Current Contents, SCOPUS, NASA ADS). ISSN 0032-0633. |
| ADCA15 | KOZA, Július - HAMMERSCHLAG, Robert H. - RYBÁK, Ján - GÖMÖRY, Peter - KUČERA, Aleš - SCHWARTZ, Pavol. Transmission profile of the Dutch Open Telescope H\_alpha Lyot filter. In Astronomische Nachrichten, 2014, vol. 335, no. 4, p. 409-416. (1.119 - IF2013). (2014 - Current Contents, SCOPUS, NASA ADS). ISSN 0004-6337. |
| ADCA16 | LOUIS, Rohan Eugene - BALTHASAR, Horst - KUCKEIN, Christoph - GÖMÖRY, Peter - PUSCHMANN, Klaus Gerhard - DENKER, Carsten. The association between sunspot mangnetic fields and superpenumbral fibrils. In Astronomische Nachrichten, 2014, vol. 335, no. 2, p. 161-167. (1.119 - IF2013). (2014 - Current Contents, SCOPUS, NASA ADS). ISSN 0004-6337. |
| ADCA17 | MACIEJEWSKI, Gracjan - OHLERT, Johannes - DIMITROV, Dinko - PUCHALSKI, Damian - NEDOROŠČIK, Jozef - VAŇKO, Martin - MARKA, Claudia - BAAR, Stefan - RAETZ, Stefanie - SEELIGER, Martin - NEUHÄUSER, Ralph. Revisiting parameters for the WASP-1 planetary system. In Acta Astronomica, 2014, vol. 64, p. 27-43. (1.955 - IF2013). (2014 - Current Contents). ISSN 0001-5237. |
| ADCA18 | MÉSZÁROSOVÁ, Hana - KARLICKÝ, Marian - JELÍNEK, Petr - RYBÁK, Ján. Magnetoacoustic waves propagating along a dense slab and Harris current sheet and their wavelet spectra. In The Astrophysical Journal, 2014, vol. 788, article no. 44, p. 1-10. (6.280 - IF2013). (2014 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0004-637X. |
| ADCA19 | NESLUŠAN, Luboš - HAJDUKOVÁ, Mária, Jr.. The meteor-shower complex of comet C/1917 F1 (Mellish). In Astronomy and Astrophysics, 2014, vol. 566, article no. A33, p. 1-9. (4.479 - IF2013). (2014 - Current Contents, SCOPUS, NASA ADS). ISSN 0004-6361. |
| ADCA20 | NESLUŠAN, Luboš. The meteoroid streams crossing the frequently outbursting comet 29P/Schwassmann-Wachmann. In Planetary and Space Science, 2014, vol. 101, p. 162-169. (1.630 - IF2013). (2014 - Current Contents, SCOPUS, NASA ADS). ISSN 0032-0633. |
| ADCA21 | NESLUŠAN, Luboš - PORUBČAN, Vladimír - SVOREŇ, Ján. IAU MDC Photographic Meteor Orbits Database: Version 2013. In Earth, Moon, and Planets, 2014, vol. 111, p. 105-114. (0.438 - IF2013). (2014 - Current Contents, SCOPUS, NASA ADS). ISSN 0167-9295. |
| ADCA22 | OHSHIMA, Tomohito - KATO, Taichi - PAVLENKO, Elena - AKAZAWA, Hidehiko - IMAMURA, Kazuyoshi - TANABE, Kenji - DE MIGUEL, Enrique - STEIN, William - ITOH, Hiroshi - HAMBSCH, Franz-Josef - DUBOVSKÝ, Pavol - KUDZEJ, Igor - KRAJCI, Thomas - BAKLANOV, Aleksei - SAMSONOV, Denis A. - ANTONYUK, Oksana I. - MALANUSHENKO, Viktor - ANDREEV, Maksim V. - NOGUCHI, Ryo - OGURA, Kazuyuki - NOMOTO, Takashi - ONO, Rikako - NAKAGAWA, Shinichi - TANIUCHI, Keisuke - AOKI, Tomoya - KAWABATA, Miho - KIMURA, Hitoshi - MASUMOTO, Kazunari - KOBAYASHI, Hiroshi - MATSUMOTO, Katsura - SHIOKAWA, Kazuhiko - SHUGAROV, Sergey Yu. - KATYSHEVA, Natalia A. - VOLOSHINA, Irina - ZEMKO, Polina - KASAI, Kiyoshi - RUIZ, Javier - MAEHARA, Hiroyuki - VIRNINA, Natalia A. - VIRTANEN, Jani - MILLER, Ian - BOITNOTT, Boyd - LITTLEFIELD, Colin - JAMES, Nick - TORDAI, Tamas - ROBERT, Fidrich - PADOVAN, Stefano - MIYASHITA, Atsushi. Study of negative and positive superhumps in ER Ursae Majoris. In Publications of the Astronomical Society of Japan, 2014, vol. 66, no. 4, article no. 67, p. 1-22. (2.009 - IF2013). (2014 - Current Contents). ISSN 0004-6264. |
| ADCA23 | PERNA, Davide - ALVAREZ-CANDAL, Alvaro - FORNASIER, Sonia - KAŇUCHOVÁ, Zuzana - GIULIATTI WINTER, Silvia M. - VIEIRA NETO, Ernesto - GIULIATTI WINTER, Silvia M. The triple near-Earth asteroid (153591) 2001 SN263: an ultra-blue, primitive target for the Aster space mission. In Astronomy and Astrophysics, 2014, vol. 568, article no. L6, p. 1-4. (4.479 - IF2013). (2014 - Current Contents, SCOPUS, NASA ADS). ISSN 0004-6361. |
| ADCA24 | PRIBULLA, Theodor - SEBASTIAN, Daniel - AMMLER-VON EIFF, Matthias - STAHL, Otmar - BERNDT, Alexandra - CHINI, Rolf - HOFFMEISTER, Vera - MUGRAUER, Markus - NEUHÄUSER, Ralph - VAŇKO, Martin. Cerro Armazones spectroscopic survey of F dwarfs. In Monthly Notices of the Royal Astronomical Society, 2014, vol. 443, p. 2815-2823. (5.226 - IF2013). (2014 - Current Contents, SCOPUS, NASA ADS). ISSN 0035-8711. |
| ADCA25 | RAETZ, Stefanie - MACIEJEWSKI, Gracjan - GINSKI, Christian - MUGRAUER, Markus - BERNDT, Alexandra - EISENBEISS, Thomas - ADAM, Christian - RAETZ, Manfred - ROELL, Tristan - SEELIGER, Martin - MARKA, Claudia - VAŇKO, Martin - BUKOWIECKI, Lukasz - ERRMANN, Ronny - KITZE, Manfred - OHLERT, Johannes - PRIBULLA, Theodor - SCHMIDT, Janos - SEBASTIAN, Daniel - PUCHALSKI, Damian - TETZLAFF, Nina - HOHLE, Markus M. - SCHMIDT, Tobias O.B. - NEUHÄUSER, Ralph. Transit timing of TrES-2: a combined analysis of ground- and space- based photometry. In Monthly Notices of the Royal Astronomical Society, 2014, vol. 444, p. 1351-1368. (5.226 - IF2013). (2014 - Current Contents, SCOPUS, NASA ADS). ISSN 0035-8711. |
| ADCA26 | SKOPAL, Augustín - DRECHSEL, Horst - TARASOVA, Taissiia Natasha - KATO, Taichi - FUJII, Mitsugu - TEYSSIER, Francois - GARDE, Olivier - GUARRO, Joan - EDLIN, James - BUIL, Christian - ANTAO, David - TERRY, Jean-Noel - LEMOULT, Thierry - CHARBONNEL, Stéphane - BOHLSEN, Terry - FAVARO, Andre - GRAHAM, Keith. Early evolution of the extraordinary Nova Delphini 2013 (V339 Del). In Astronomy and Astrophysics, 2014, vol. 569, article no. A112, p. 1-14. (4.479 - IF2013). (2014 - Current Contents, SCOPUS, NASA ADS). ISSN 0004-6361. |
| ADCA27 | SU, Yang - GÖMÖRY, Peter - VERONIG, Astrid - TEMMER, Manuela - WANG, Tongjiang - VANNINATHAN, Kamalam - GAN, Weiqun - LI, YouPing. Solar magnetized tornadoes: rotational motion in a tornado-like prominence. In The Astrophysical Journal Letters, 2014, vol. 785, article no. L2, p. 1-6. (5.602 - IF2013). (2014 - Current Contents, SCOPUS, NASA ADS). ISSN 2041-8205. |
| ADCA28 | ZEMKO, Polina - ORIO, Marina - MUKAI, Koji - SHUGAROV, Sergey Yu.. X-ray observations of VY Scl-type nova-like binaries in the high and low state. In Monthly Notices of the Royal Astronomical Society, 2014, vol. 445, p. 869-880. (5.226 - IF2013). (2014 - Current Contents, SCOPUS, NASA ADS). ISSN 0035-8711. |

|  |  |
| --- | --- |
| ADEA01 | AUBÉ, Martin - ROBY, Johanne - KOCIFAJ, Miroslav. Evaluating potential spectral impacts of various artificial lights on melatonin suppression, photosynthesis, and star visibility. In PLoS ONE, 2013, vol. 8, no. 7, article no. E67798, p. 1-15. (3.730 - IF2012). (2013 - MEDLINE). ISSN 1932-6203. |

**ADEB Scientific papers in other foreign journals**

|  |  |
| --- | --- |
| ADEB01 | KOZA, Július. Chromospheric fine structure didactically. In Central European Astrophysical Bulletin, 2014, vol. 38, p. 38-52. (2014 - NASA ADS). ISSN 1845-8319. |
| ADEB02 | NESLUŠAN, Luboš. The solutions of the Maxwell equations related to the atom: Atom as a crystal-type structure. In Quantum Matter, 2014, vol. 3, p. 261-272. ISSN 2164-7615. Dostupné na internete: <http://www.aspbs.com/qm/>. |
| ADEB03 | NESLUŠAN, Luboš. Non-trivial linkup of both compact-neutron-object and outer-empty-space metrics. In International Journal of Astronomy and Astrophysics, 2014, vol. 4, p. 1-10. ISSN 2161-4717. Dostupné na internete: <http://www.scirp.org/journal/ijaa/>. |
| ADEB04 | NESLUŠAN, Luboš. Another way of the continuous linkup of neutron-star-body and surrounding empty-space metrics. In International Journal of Astronomy and Astrophysics, 2014, vol. 4, p. 399-413. ISSN 2161-4717. Dostupné na internete: <http://www.scirp.org/journal/ijaa/>. |

**ADFA Scientific papers in domestic impacted journals registered in the Web of Science or Scopus Core Collection**

|  |  |
| --- | --- |
| ADFA01 | BARSUNOVA, Olga Yu. - MEĽNIKOV, Stanislav Yu. - GRININ, Vladimir P. - KATYSHEVA, Natalia A. - SHUGAROV, Sergey Yu.. NZ Ser: the results of the analysis of the 25 years photometric activity : Proceedings of the Workshop Observing Techniques, Instrumentation and Science for Metre-Class Telescopes. Edited by Theodor Pribulla and Richard Komžík. In Contributions of the Astronomical Observatory Skalnaté Pleso, 2014, vol.43, article no. BP02, p. 416-418. (0.312 - IF2013). (2014 - WOS, SCOPUS, NASA ADS). ISSN 1335-1842. |
| ADFA02 | ČOKINA, Michal - PARIMUCHA, Štefan - VAŇKO, Martin. autoObserver - automatic generation of observing schedules : Proceedings of the Workshop Observing Techniques, Instrumentation and Science for Metre-Class Telescopes. Edited by Theodor Pribulla and Richard Komžík. In Contributions of the Astronomical Observatory Skalnaté Pleso, 2014, vol. 43, article no. BP26, p. 473-474. (0.312 - IF2013). (2014 - WOS, SCOPUS, NASA ADS). ISSN 1335-1842. |
| ADFA03 | ESIPOV, Valentin F. - KOLOTILOV, Eugene - KOMISSAROVA, Galina - SHENAVRIN, Viktor, I. - SHUGAROV, Sergey Yu. - TARASOVA, Taissiia Natasha - TATARNIKOV, Andrey M. - TATARNIKOVA, Anna A. Spectral and photometric monitoring of the classical symbiotic star V1413 Aql in 2008-2013 : Proceedings of the Workshop Observing Techniques, Instrumentation and Science for Metre-Class Telescopes. Edited by Theodor Pribulla and Richard Komžík. In Contributions of the Astronomical Observatory Skalnaté Pleso, 2014, vol. 43, article no. BP32, p. 485-486. (0.312 - IF2013). (2014 - WOS, SCOPUS, NASA ADS). ISSN 1335-1842. |
| ADFA04 | GARAI, Zoltán - BUDAJ, Ján. Short-period Kepler exoplanet candidates: search for a circum-planetary material : Proceedings of the Workshop Observing Techniques, Instrumentation and Science for Metre-Class Telescopes. Edited by Theodor Pribulla and Richard Komžík. In Contributions of the Astronomical Observatory Skalnaté Pleso, 2014, vol. 43, article no. BP08, p. 431-433. (0.312 - IF2013). (2014 - WOS, SCOPUS, NASA ADS). ISSN 1335-1842. |
| ADFA05 | GOLYSHEVA, Polina Yu. - SHUGAROV, Sergey Yu.. Multicolor photometric monitoring of a new WZ Sge-type star in Aquila : Proceedings of the Workshop Observing Techniques, Instrumentation and Science for Metre-Class Telescopes. Edited by Theodor Pribulla and Richard Komžík. In Contributions of the Astronomical Observatory Skalnaté Pleso, 2014, vol. 43, article no. B10, p. 312-318. (0.312 - IF2013). (2014 - WOS, SCOPUS, NASA ADS). ISSN 1335-1842. |
| ADFA06 | HAMBÁLEK, Ľubomír - KREJČOVÁ, Tereza. Planetary occultations from KEPLER data : Proceedings of the Workshop Observing Techniques, Instrumentation and Science for Metre-Class Telescopes. Edited by Theodor Pribulla and Richard Komžík. In Contributions of the Astronomical Observatory Skalnaté Pleso, 2014, vol. 43, article no BP10, p. 438-439. (0.312 - IF2013). (2014 - WOS, SCOPUS, NASA ADS). ISSN 1335-1842. |
| ADFA07 | HUSÁRIK, Marek. Asteroid photometry achieved with small telescopes : Proceedings of the Workshop Observing Techniques, Instrumentation and Science for Metre-Class Telescopes. Edited by Theodor Pribulla and Richard Komžík. In Contributions of the Astronomical Observatory Skalnaté Pleso, 2014, vol. 43, article no. B02, p. 266-273. (0.312 - IF2013). (2014 - WOS, SCOPUS, NASA ADS). ISSN 1335-1842. |
| ADFA08 | CHOCHOL, Drahomír - SHUGAROV, Sergey Yu. - PRIBULLA, Theodor - VOLKOV, Igor. Photometry and spectroscopy of the classical nova V339 Del (Nova Del 2013) in the first month after outburst : Proceedings of the Workshop Observing Techniques, Instrumentation and Science for Metre-Class Telescopes. Edited by Theodor Pribulla and Richard Komžík. In Contributions of the Astronomical Observatory Skalnaté Pleso, 2014, vol. 43, article no. B13, p. 330-337. (0.312 - IF2013). (2014 - WOS, SCOPUS, NASA ADS). ISSN 1335-1842. |
| ADFA09 | JAKUBÍK, Marián - NESLUŠAN, Luboš. The accumulations of solids beyond the primordial Jupiter and Saturn to form the ice-giant cores. In Contributions of the Astronomical Observatory Skalnaté Pleso, 2014, vol. 44, p. 5-18. (0.312 - IF2013). (2014 - WOS, SCOPUS, NASA ADS). ISSN 1335-1842. |
| ADFA10 | KAŇUCHOVÁ, Zuzana - SVOREŇ, Ján. Southern Taurids in the IAU MDC Database. Taurid complex. In Contributions of the Astronomical Observatory Skalnaté Pleso, 2014, vol. 44, p. 109-118. (0.312 - IF2013). (2014 - WOS, SCOPUS, NASA ADS). ISSN 1335-1842. |
| ADFA11 | KATYSHEVA, Natalia A. - CHOCHOL, Drahomír - SHUGAROV, Sergey Yu.. The photometric observations of new WZ Sge-type systems with small telescopes : Proceedings of the Workshop Observing Techniques, Instrumentation and Science for Metre-Class Telescopes. Edited by Theodor Pribulla and Richard Komžík. In Contributions of the Astronomical Observatory Skalnaté Pleso, 2014, vol. 43, article no. B09, p. 306-311. (0.312 - IF2013). (2014 - WOS, SCOPUS, NASA ADS). ISSN 1335-1842. |
| ADFA12 | KATYSHEVA, Natalia A. - ZHAROVA, Alla V. - SHUGAROV, Sergey Yu.. The investigation of Nova M31 2005-13 with small telescopes : Proceedings of the Workshop Observing Techniques, Instrumentation and Science for Metre-Class Telescopes. Edited by Theodor Pribulla and Richard Komžík. In Contributions of the Astronomical Observatory Skalnaté Pleso, 2014, vol. 43, article no. BP15, p. 447-450. (0.312 - IF2013). (2014 - WOS, SCOPUS, NASA ADS). ISSN 1335-1842. |
| ADFA13 | KOZA, Július - RYBÁK, Ján - GÖMÖRY, Peter - KUČERA, Aleš. Inferring spectral characteristics of the H\_alpha spectral line observed by the DOT Lyot filter. In Contributions of the Astronomical Observatory Skalnaté Pleso, 2014, vol. 44, p. 43-60. (0.312 - IF2013). (2014 - WOS, SCOPUS, NASA ADS). ISSN 1335-1842. |
| ADFA14 | KRIŠANDOVÁ, Zuzana - IVANOVA, Oleksandra - SVOREŇ, Ján - BORISENKO, Serhii - ANDREEV, Maksim V. Photometry of Comet C/2012 - S1 (ISON) : Proceedings of the Workshop Observing Techniques, Instrumentation and Science for Metre-Class Telescopes. Edited by Theodor Pribulla and Richard Komžík. In Contributions of the Astronomical Observatory Skalnaté Pleso, 2014, vol. 43, article no. BP18, p. 455-457. (0.312 - IF2013). (2014 - WOS, SCOPUS, NASA ADS). ISSN 1335-1842. |
| ADFA15 | KUNDRA, Emil - HRIC, Ladislav. The large outbursts studied by small telesopes - the case of RS Oph : Proceedings of the Workshop Observing Techniques, Instrumentation and Science for Metre-Class Telescopes. Edited by Theodor Pribulla and Richard Komžík. In Contributions of the Astronomical Observatory Skalnaté Pleso, 2014, vol. 43, article no. BP20, p. 459-460. (0.312 - IF2013). (2014 - WOS, SCOPUS, NASA ADS). ISSN 1335-1842. |
| ADFA16 | NEDOROŠČIK, Jozef - VAŇKO, Martin - PRIBULLA, Theodor. Eclipsing binaries in the ASAS survey : Proceedings of the Workshop Observing Techniques, Instrumentation and Science for Metre-Class Telescopes. Edited by Theodor Pribulla and Richard Komžík. In Contributions of the Astronomical Observatory Skalnaté Pleso, 2014, vol. 43, article no. BP23, p. 465-467. (0.312 - IF2013). (2014 - WOS, SCOPUS, NASA ADS). ISSN 1335-1842. |
| ADFA17 | PLÁVALOVÁ, Eva. Why is it necessary to establish a classification of etra-solar planets? : Proceedings of the Workshop Observing Techniques, Instrumentation and Science for Metre-Class Telescopes. Edited by Theodor Pribulla and Richard Komžík. In Contributions of the Astronomical Observatory Skalnaté Pleso, 2014, vol. 43, article no. BP28, p. 477-478. (0.312 - IF2013). (2014 - WOS, SCOPUS, NASA ADS). ISSN 1335-1842. |
| ADFA18 | PRIBULLA, Theodor - VAŇKO, Martin - DWARF TEAM. The Dwarf project. First results : Proceedings of the Workshop Observing Techniques, Instrumentation and Science for Metre-Class Telescopes. Edited by Theodor Pribulla and Richard Komžík. In Contributions of the Astronomical Observatory Skalnaté Pleso, 2014, vol. 43, article no. B20, p. 375-381. (0.312 - IF2013). (2014 - WOS, SCOPUS, NASA ADS). ISSN 1335-1842. |
| ADFA19 | RUŠIN, Vojtech - SANIGA, Metod - KOMŽÍK, Richard. White-light corona and solar polar magnetic field strength over solar cycles. In Contributions of the Astronomical Observatory Skalnaté Pleso, 2014, vol. 44, p. 119-129. (0.312 - IF2013). (2014 - WOS, SCOPUS, NASA ADS). ISSN 1335-1842. |
| ADFA20 | SEKERÁŠ, Matej - SKOPAL, Augustín. Examples of scattering processes in symbiotic binaries : Proceedings of the Workshop Observing Techniques, Instrumentation and Science for Metre-Class Telescopes. Edited by Theodor Pribulla and Richard Komžík. In Contributions of the Astronomical Observatory Skalnaté Pleso, 2014, vol. 43, article no. BP30, p. 480-482. (0.312 - IF2013). (2014 - WOS, SCOPUS, NASA ADS). ISSN 1335-1842. |
| ADFA21 | SHAGATOVA, Natalia - SKOPAL, Augustín. The density of neutral wind in symbiotic binary and its orbital inclination: the case of Z And : Proceedings of the Workshop Observing Techniques, Instrumentation and Science for Metre-Class Telescopes. Edited by Theodor Pribulla and Richard Komžík. In Contributions of the Astronomical Observatory Skalnaté Pleso, 2014, vol.43, article no. BP31, p. 483-484. (0.312 - IF2013). (2014 - WOS, SCOPUS, NASA ADS). ISSN 1335-1842. |
| ADFA22 | SKOPAL, Augustín. Astrophysics of symbiotic stars with small telescopes : Proceedings of the Workshop Observing Techniques, Instrumentation and Science for Metre-Class Telescopes. Edited by Theodor Pribulla and Richard Komžík. In Contributions of the Astronomical Observatory Skalnaté Pleso, 2014, vol. 43, article no. B03, p. 274-281. (0.312 - IF2013). (2014 - WOS, SCOPUS, NASA ADS). ISSN 1335-1842. |
| ADFA23 | SVOREŇ, Ján. Astrometry of comets made at the Skalnaté Pleso Observatory in the year 2003. In Contributions of the Astronomical Observatory Skalnaté Pleso, 2014, vol.44, p. 19-32. (0.312 - IF2013). (2014 - WOS, SCOPUS, NASA ADS). ISSN 1335-1842. |
| ADFA24 | TOMKO, Dušan. Prediction of evolution of meteor shower associated with comet 122P/de Vico. In Contributions of the Astronomical Observatory Skalnaté Pleso, 2014, vol. 44, p. 33-42. (0.312 - IF2013). (2014 - WOS, SCOPUS, NASA ADS). ISSN 1335-1842. |
| ADFA25 | TSVETKOV, Dmitry Yu. - PAVLYUK, Nikolaj N. - VOLKOV, Igor - SHUGAROV, Sergey Yu.. Photometric monitoring of bright supernovae : Proceedings of the Workshop Observing Techniques, Instrumentation and Science for Metre-Class Telescopes. Edited by Theodor Pribulla and Richard Komžík. In Contributions of the Astronomical Observatory Skalnaté Pleso, 2014, vol. 43, article no. B15, p. 351-356. (0.312 - IF2013). (2014 - WOS, SCOPUS, NASA ADS). ISSN 1335-1842. |
| ADFA26 | TSVETKOV, Dmitry Yu. - METLOV, Vladimir G. - SHUGAROV, Sergey Yu. - TARASOVA, Taissiia Natasha - PAVLYUK, Nikolaj N. Supernova 2014J at maximum light. In Contributions of the Astronomical Observatory Skalnaté Pleso, 2014, vol. 44, p. 67-76. (0.312 - IF2013). (2014 - WOS, SCOPUS, NASA ADS). ISSN 1335-1842. |
| ADFA27 | VAŇKO, Martin - KOMŽÍK, Richard - KOLLÁR, Vladimír - SEKERÁŠ, Matej. Photoelectric photometry era at the Astronomical Institute of the Slovak Academy of Sciences I. Instrumentation, colour system and extinction. In Contributions of the Astronomical Observatory Skalnaté Pleso, 2014, vol. 44, p. 77-90. (0.312 - IF2013). (2014 - WOS, SCOPUS, NASA ADS). ISSN 1335-1842. |
| ADFA28 | VAŇKO, Martin - KOMŽÍK, Richard - KOLLÁR, Vladimír - SEKERÁŠ, Matej. Photoelectric photometry era at the Astronomical Institute of the Slovak Academy of Sciences II. Software and reduction techniques. In Contributions of the Astronomical Observatory Skalnaté Pleso, 2014, vol. 44, p. 91-108. (0.312 - IF2013). (2014 - WOS, SCOPUS, NASA ADS). ISSN 1335-1842. |
| ADFA29 | VOLKOV, Igor - CHOCHOL, Drahomír. Apsidal motion in BW Aqr : Proceedings of the Workshop Observing Techniques, Instrumentation and Science for Metre-Class Telescopes. Edited by Theodor Pribulla and Richard Komžík. In Contributions of the Astronomical Observatory Skalnaté Pleso, 2014, vol. 43, article no. BP03, p. 419-421. (0.312 - IF2013). (2014 - WOS, SCOPUS, NASA ADS). ISSN 1335-1842. |
| ADFA30 | ZEMKO, Polina - SHUGAROV, Sergey Yu. - KATO, Taichi - KATYSHEVA, Natalia A. Study of a long and short-term variability of ER Ursae Majoris : Proceedings of the Workshop Observing Techniques, Instrumentation and Science for Metre-Class Telescopes. Edited by Theodor Pribulla and Richard Komžík. In Contributions of the Astronomical Observatory Skalnaté Pleso, 2014, vol. 43, article no. B11, p. 319-324. (0.312 - IF2013). (2014 - WOS, SCOPUS, NASA ADS). ISSN 1335-1842. |

**AEC Published contributions to international scientific conferences**

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| AEC01 | BUČEK, Marek - PORUBČAN, Vladimír. Taurid meteor complex. In Meteoroids 2013, Proceedings of the Astronomical Conference. Edited by Tadeusz J. Jopek, Frans J.M. Rietmeijer, Junichi Watanabe and Iwan P. Williams. - Poznan : University Press, 2014, p. 193-197. ISBN 978-83-232-2726-7. |
| AEC02 | HAJDUKOVÁ, Mária, Jr. - KORNOŠ, Leoš - TÓTH, Juraj. Hyperbolic Orbits in the EDMOND. In Meteoroids 2013, Proceedings of the Astronomical Conference. Edited by Tadeusz J. Jopek, Frans J.M. Rietmeijer, Junichi Watanabe and Iwan P. Williams. - Poznan : University Press, 2014, p. 289-295. ISBN 978-83-232-2726-7. |
| AEC03 | JOPEK, Tadeusz J. - KAŇUCHOVÁ, Zuzana. Current status of the IAU MDC Meteor Showers Database. In Meteoroids 2013, Proceedings of the Astronomical Conference. Edited by Tadeusz J. Jopek, Frans J.M. Rietmeijer, Junichi Watanabe and Iwan P. Williams. - Poznan : University Press, 2014, p. 353-364. ISBN 978-83-232-2726-7. |
| AEC04 | KAŇUCHOVÁ, Zuzana - BARATTA, Giuseppe Antonio. Micro-Raman spectroscopy of meteorite Košice. In Meteoroids 2013, Proceedings of the Astronomical Conference. Edited by Tadeusz J. Jopek, Frans J.M. Rietmeijer, Junichi Watanabe and Iwan P. Williams. - Poznan : University Press, 2014, p. 141-146. ISBN 978-83-232-2726-7. |
| AEC05 | KORNOŠ, Leoš - MATLOVIČ, Pavol - RUDAWSKA, Regina - TÓTH, Juraj - HAJDUKOVÁ, Mária, Jr. - KOUKAL, Jakub - PIFFL, Roman. Confirmation and characterization of IAU temporary meteor showers in EDMOND database. In Meteoroids 2013, Proceedings of the Astronomical Conference. Edited by Tadeusz J. Jopek, Frans J.M. Rietmeijer, Junichi Watanabe and Iwan P. Williams. - Poznan : University Press, 2014, p. 225-233. ISBN 978-83-232-2726-7. |
| AEC06 | KUNDRA, Emil - PRIBULLA, Theodor - VAŇKO, Martin - HAMBÁLEK, Ľubomír. Eclipsing binaries: Precise clocks to detect extrasolar planets. In Formation, Detection, and Characterization of Extrasolar Habitable Planets : Proceedings of the 293rd symposium of the IAU held in Beijing, China, August 27-31, 2012. Vol. 293. Edited by Nader Haghighipour. - Cambridge : Cambridge University Press, 2014, p. 165-167. ISBN 9781107033825. |
| AEC07 | NESLUŠAN, Luboš - KAŇUCHOVÁ, Zuzana - TOMKO, Dušan. The ecliptic-toroidal structure of the meteor complex of comet 96P/Machholz. In Meteoroids 2013, Proceedings of the Astronomical Conference. Edited by Tadeusz J. Jopek, Frans J.M. Rietmeijer, Junichi Watanabe and Iwan P. Williams. - Poznan : University Press, 2014, p. 235-242. ISBN 978-83-232-2726-7. |
| AEC08 | SCHWARTZ, Pavol - AMBRÓZ, Jaroslav - GÖMÖRY, Peter - KOZÁK, Matúš - KUČERA, Aleš - RYBÁK, Ján - TOMCZYK, Steve - SEWELL, Scott - AUMILLER, Phil - SUMMERS, Rich - SUTHERLAND, Lee - WATT, Andy. Coronal Multi-Channel Polarimeter at the Lomnicky Peak Observatory. In Nature of Prominences and their Role in Space Weather : IAU Symposium Proceedings vol. 300. Edited by Brigitte Schmieder, Jean-Marie Malherbe and Shi Tsan Wu. - Cambridge : Cambridge University Press, 2014, p. 521-522. ISBN 978-1-107-04519-4. |
| AEC09 | SCHWARTZ, Pavol - HEINZEL, Petr - KOTRČ, Pavel - FÁRNÍK, František - KUPRYAKOV, Yurij Alexejevič - DELUCA, Edward E. - GOLUB, Leon. Total mass loading of prominences estimated from their multi-spectral observations. In Nature of Prominences and their Role in Space Weather : IAU Symposium Proceedings vol. 300. Edited by Brigitte Schmieder, Jean-Marie Malherbe and Shi Tsan Wu. - Cambridge : Cambridge University Press, 2014, p. 458-459. ISBN 978-1-107-04519-4. |
| AEC10 | TOMKO, Dušan - NESLUŠAN, Luboš. Prediction of meteor shower of comet 161P/2004 V2. In Meteoroids 2013, Proceedings of the Astronomical Conference. Edited by Tadeusz J. Jopek, Frans J.M. Rietmeijer, Junichi Watanabe and Iwan P. Williams. - Poznan : University Press, 2014, p. 243-249. ISBN 978-83-232-2726-7. |
|  AEE01 | GARAI, Zoltán. Short-period Kepler exoplanet candidates: search for comet-like tails and orbital period variations. In Wykorzystanie Malych Teleskopov 2013 : Materialy Konferencji, Krakow - Koninky, 10-12 maja 2013. Edited by Katarzyna Bajan, Waldemar Ogloza, Grzegorz Stachowski and Bartlomiej Zakrzewski. - Krakow : Universitet Pedagogiczny : Polskie Towarzystwo Milosnikow Astronomii, 2014, p. 177-183. ISSN 1230-2295. |
| AEE02 | HAJDUKOVÁ, Mária, Jr.. Observed and real orbital dispersion within meteoroid streams. In Proceedings of the International Meteor Conference, Poznan, Poland, 22-25 August 2013. Edited by Marc Gyssens, Paul Roggemans and Przemyslew Zoladek. - Hove : International Meteor Organization, 2014, p. 91-95. ISBN 978-2-87355-025-7. |
| AEE03 | NEDOROŠČIK, Jozef - VAŇKO, Martin - PRIBULLA, Theodor. Fourier analysis of ASAS light-curves of eclipsing binaries. In Wykorzystanie Malych Teleskopov 2013 : Materialy Konferencji, Krakow - Koninky, 10-12 maja 2013. Edited by Katarzyna Bajan, Waldemar Ogloza, Grzegorz Stachowski and Bartlomiej Zakrzewski. - Krakow : Universitet Pedagogiczny : Polskie Towarzystwo Milosnikow Astronomii, 2014, p. 171-176. ISSN 1230-2295. |
| AEE04 | NESLUŠAN, Luboš - HAJDUKOVÁ, Mária, Jr. - TOMKO, Dušan - KAŇUCHOVÁ, Zuzana - JAKUBÍK, Marián. The prediction of meteor showers from all potential parent comets. In Proceedings of the International Meteor Conference, Giron, France, 18-21 September 2014. Edited by J.-L. Raul and Paul Roggemans. - Hove : International Meteor Organization, 2014, p. 139-145. ISBN 978-2-87355-028-8. |