

Astronomický ústav SAV, v. v. i.



**Výročná správa o činnosti a hospodárení
za rok 2025**

Tatranská Lomnica
január 2026

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ČASŤ A

Astronomický ústav SAV, v. v. i.

**Výročná správa o činnosti organizácie
za rok 2025**

1. Základné údaje o organizácii

1.1. Kontaktné údaje

Názov: Astronomický ústav SAV, v. v. i.

Riaditeľ: Mgr. Peter Gömöry, PhD.

Zástupca riaditeľa: Mgr. Marián Jakubík, PhD.

Vedecký tajomník: Mgr. Natalia Shagatova, PhD.

Predseda správnej rady: Mgr. Peter Gömöry, PhD.

Predseda vedeckej rady: Mgr. Zuzana Kaňuchová, PhD.

Predseda dozornej rady: doc. RNDr. Pavol Hvizdoš, DrSc.

Člen Snemu SAV: Mgr. Marián Jakubík, PhD.

Adresa: Tatranská Lomnica, 059 60 Vysoké Tatry

<https://www.astro.sk>

Tel.: 052/7879111

E-mail: astrinst@ta3.sk

Názvy a adresy organizačných zložiek a detašovaných pracovísk:

Organizačné zložky: nie sú

Detašované pracoviská:

- **Astronomický ústav - Oddelenie medziplanetárnej hmoty**
Dúbravská cesta 9, 845 04 Bratislava

Vedúci organizačných zložiek a detašovaných pracovísk:

Organizačné zložky: nie sú

Detašované pracoviská:

- **Astronomický ústav - Oddelenie medziplanetárnej hmoty**
vedúci nie je zadaný

Členovia Snemu SAV za organizačné zložky:

nie sú

Typ organizácie: Verejná výskumná inštitúcia od roku 2022

1.2. Údaje o zamestnancoch

Tabuľka 1a Počet a štruktúra zamestnancov

Štruktúra zamestnancov	K	K		K do 35 rokov		F	P	T	O
		M	Ž	M	Ž				
Celkový počet zamestnancov	59	41	18	4	3	58	50.39	36.01	0
Vedeckí pracovníci	34	25	9	3	3	33	29.44	29.36	0
Odborní pracovníci VŠ (výskumní a vývojoví zamestnanci ¹)	8	8	0	1	0	8	6.65	6.65	0
Odborní pracovníci VŠ (ostatní zamestnanci ²)	3	1	2	0	0	3	3	0	0
Odborní pracovníci ÚS	6	2	4	0	0	6	5.2	0	0
Ostatní pracovníci	8	5	3	0	0	8	6.1	0	0

¹ odmeňovaní podľa 553/2003 Z.z., príloha č. 5

² odmeňovaní podľa 553/2003 Z.z., príloha č. 3 a č. 4

K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2025 (uvádzať zamestnancov v pracovnom pomere, vrátane riadnej materskej dovolenky, zamestnancov pôsobiach v zahraničí, v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiach v zastupiteľských zborech)

F – fyzický stav zamestnancov k 31.12.2025 (bez riadnej materskej dovolenky, zamestnancov pôsobiach v zahraničí v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiach v zastupiteľských zborech)

P – celoročný priemerný prepočítaný počet zamestnancov

T – celoročný priemerný prepočítaný počet riešiteľov projektov

O – celoročný priemerný prepočítaný počet obslužného personálu podieľajúceho sa na riešení projektov (technikov, laborantov, projektových manažérov a pod.) mimo zamestnancov v administratívnej, správe a údržbe budov, upratovačiek, vodičov a pod.

M, Ž – muži, ženy

Tabuľka 1b Štruktúra vedeckých pracovníkov (kmeňový stav k 31.12.2025)

Rodová skladba	Pracovníci s hodnosťou				Vedeckí pracovníci v stupňoch		
	DrSc.	CSc./PhD.	prof.	doc.	I.	II.a.	II.b.
Muži	5	21	0	1	4	15	6
Ženy	0	9	0	0	0	3	6

Tabuľka 1c Štruktúra pracovníkov podľa veku a rodu, ktorí sú riešiteľmi projektov

Veková štruktúra (roky)	< 31		31-35		36-40		41-45		46-50		51-55		56-60		61-65		> 65	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
Muži	2	2.00	1	1.00	4	4.00	5	4.75	5	4.75	3	2.15	3	3.00	2	2.00	7	3.70
Ženy	1	1.00	2	2.00	2	1.95	0	0.00	3	3.00	0	0.00	1	1.00	0	0.00	0	0.00
Spolu	3	3.00	3	3.00	6	5.95	5	4.75	8	7.75	3	2.15	4	4.00	2	2.00	7	3.70

A - Prepočet bez zohľadnenia úväzkov zamestnancov

B - Prepočet so zohľadnením úväzkov zamestnancov

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2025

	Kmeňoví zamestnanci	Vedeckí pracovníci	Riešitelia projektov
Muži	52.8	52.8	51.9
Ženy	47.2	41.4	41.4
Spolu	51.1	49.8	49.6

1.3. Iné dôležité informácie k základným údajom o organizácii a zmeny za posledné obdobie (v zameraní, v personálnej štruktúre a pod.)

V priebehu roka 2025 došlo ku zmene obsadenia funkcie predsedu Vedeckej rady.

Do 31. mája 2025 - RNDr. Aleš Kučera, CSc.

Od 1. júna 2025 - Mgr. Zuzana Kaňuchová, PhD.

Dňa 08. decembra 2025 bol ustanovený Vedecký poradný výbor (Science Advisory Committee) Astronomického ústavu SAV, v. v. i.:

predseda: Markus Roth (Nemecko)

členovia: Petr Kabáth (Česká republika), Heidi Korhonen (Nemecko), Artie Hatzes (Nemecko)

2. Vedecko-výskumná činnosť – projekty, výsledky

2.1. Domáce projekty

Tabuľka 2a Domáce projekty riešené v roku 2025

ŠTRUKTÚRA PROJEKTOV	Počet		Čerpané financie (€)					
	A	B	A				B	
			Zo zdrojov SAV		Z iných zdrojov		Zo zdrojov SAV	Z iných zdrojov
			Spolu	Pre organizáciu	Spolu	Pre organizáciu		
1. Projekty VEGA	5	1	92839	92839	-	-	1194	-
2. Projekty APVV	3	0	-	-	96281	71716	-	-
3. Projekty EŠIF/OP ŠF, Plán obnovy EÚ	5	0	-	-	171999	171999	-	-
4. Projekty SASPRO	0	0	-	-	-	-	-	-
5. Projekty IMPULZ	0	0	-	-	-	-	-	-
6. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)	0	0	-	-	-	-	-	-

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

Tabuľka 2b Domáce projekty podané v roku 2025

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2025	-	3	0
2. Projekty výziev EŠIF podané r. 2025	Bratislava	0	0
	Regióny	0	0

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2025

Tabuľka 2c Medzinárodné projekty riešené v roku 2025

ŠTRUKTÚRA PROJEKTOV	Počet		Čerpané financie (€)					
	A	B	A				B	
			Zo zdrojov SAV		Z iných zdrojov		Zo zdrojov SAV	Z iných zdrojov
			Spolu	Pre organizáciu	Spolu	Pre organizáciu		
1a. Projekty Horizont 2020	0	0	-	-	-	-	-	-
1b. Projekty Horizont Európa	1	0	-	-	11493	11493	-	-
2. Projekty ERA.NET, ESA, JRP	0	0	-	-	-	-	-	-
3. Projekty COST	0	1	-	-	-	-	5524	-
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	0	0	-	-	-	-	-	-
5. Projekty v rámci medzivládnych dohôd	0	0	-	-	-	-	-	-
6. Projekty Mobility, Mobility Basic, Open Mobility a Mobility Visit	3	0	6000	6000	-	-	-	-
7. Bilaterálne projekty ostatné	2	0	4000	4000	1325	1325	-	-
8. Podpora MVTS z národných zdrojov (SAV, APVV a iné)	0	0	-	-	-	-	-	-
9. Podpora excelentného výskumu: SAS-UPJŠ ERC Visiting Fellowship Grants, Seal of Excellence, TANDEM	0	0	-	-	-	-	-	-
10. Iné projekty	0	0	-	-	-	-	-	-

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

2.2.2. Medzinárodné projekty Horizont Európa podané v roku 2025

Tabuľka 2d Počet projektov Horizont Európa v roku 2025

	A	B
Počet podaných projektov I. pilier (Excelentná veda: MSCA, ERC, RI)	0	1
Počet podaných projektov II. pilier (klastre 1-6)	0	0
Počet podaných projektov III. pilier (EIC, EIT)	0	0
Počet podaných projektov Widera (Teaming, Twinning, Hop On Facility ...)	0	0

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

Údaje k domácim a medzinárodným projektom sú uvedené v Prílohe A-2.

2.2.3. Zámery na čerpanie Európskych štrukturálnych a investičných fondov v ďalších výzvach

Astronomický ústav SAV, v. v. i. sa bude uchádzať o ŠF aj vo výzvach v ďalšom programovom období.

2.3. Výber najvýznamnejších výsledkov vedeckej práce organizácie v roku 2025

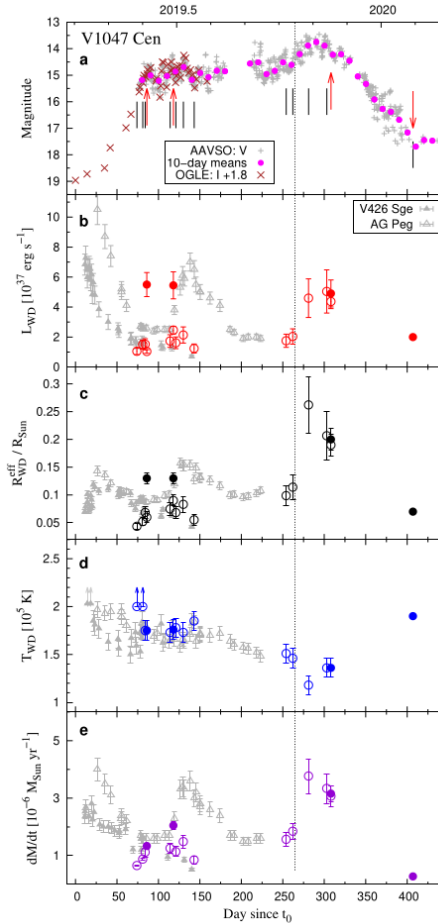
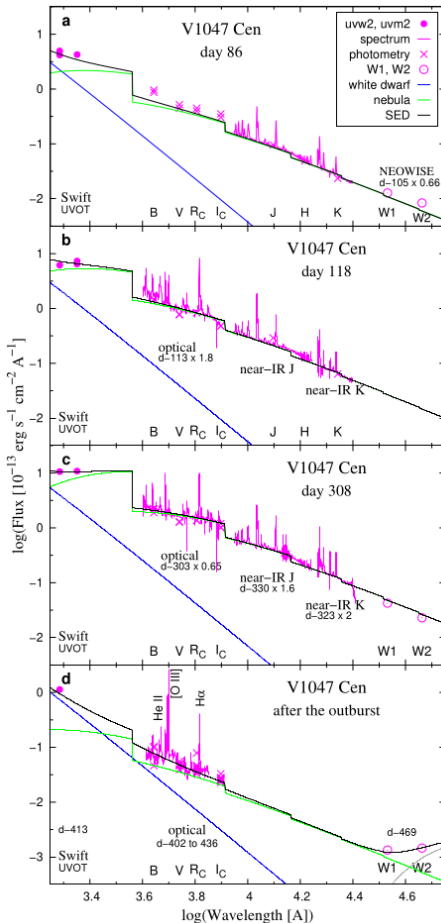
2.3.1. Výsledky na báze základného výskumu

1. výsledok

Odhalenie podstaty záhadného výbuchu klasickej novy V1047 Cen.

(Augustin Skopal, Natália Shagatova)

V roku 2019 klasická nova V1047 Cen (Nova Centauri 2005) prekonal veľmi záhadný, viac ako 400 dní trvajúci výbuch, ktorého podstata nebola objasnená, a preto bola označená ako nový typ



Obr.: Vľavo: Pozorované (magenta) a modelované (čierna čiara) spektrálne rozloženie energie (SED) V1047 Cen vo vybraných dňoch počas jej výbuchu v roku 2019. Vpravo: Vývoj svetelnej krivky V/I (panel (a)) a parametre modelov SED - svietivosť (b), polomer (c), teplota (d) a tempo vyvrhovanej hmoty (e) - počas výbuchu V1047 Cen v roku 2019. Všetky tieto charakteristiky sú typické pre výbuch typu Z And.

hviezdnej explózie v katakliztických premenných hviezdach (CVs – interagujúce dvojhviezdy s orbitálnou periódou niekoľkých hodín). V našej štúdii sme ukázali, že výbuch V1047 Cen v roku 2019 je typu „Z And“ – typu, ktorý je charakteristický a doteraz bol pozorovaný výlučne v symbiotických hviezdach (SyHv – interagujúce dvojhviezdy s orbitálnou periódou niekoľkých rokov). Naše tvrdenie sme preukázali modelovaním spektrálneho rozloženia energie v blízkej ultrafialovej až blízkej infračervenej oblasti spektra (viď obrázok). Ukázali sme, že po explózii klasickej novy môže k výbuchu typu „Z And“ dôjsť nielen v SyHv, ale aj v CVs, keď sa systém poháňaný akréciou zmení na systém poháňaný nukleárnym horením v dôsledku reakcie darcu hmoty na explóziu novy. Tento výsledok tak spochybnil typické správanie CVs po explózii novy a naznačil novú cestu hviezdneho vývoja končiacu explóziou supernovy typu Ia.

Revealing the nature of the mysterious outburst of the classical nova V1047 Cen.

Projekty: VEGA 2/0003/25, APVV-20-0148

Práca:

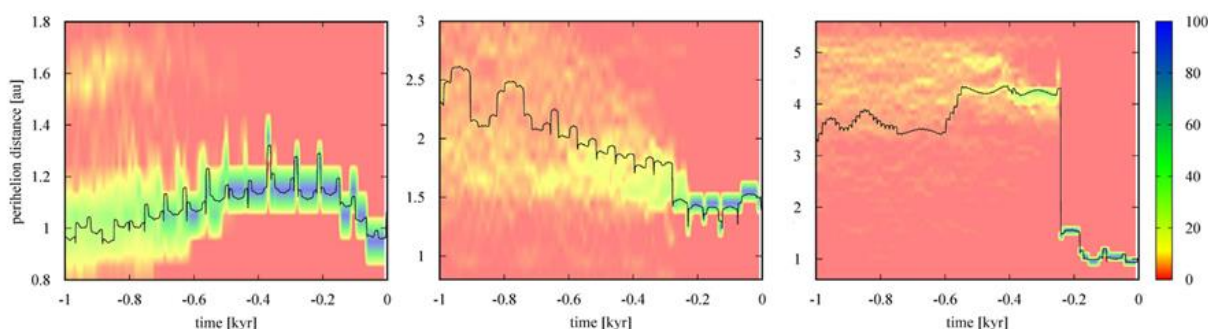
SKOPAL, Augustín - SHAGATOVA, Natalia. V1047 Cen: The first Z And-type outburst observed in the classical nova binary. In The Astrophysical Journal, 2025, vol. 983 no. 2, article no. 148, p. 1-11. (2024: 5.4 - IF, Q1 - JCR, 2.038 - SJR, Q1 - SJR). ISSN 0004-637X. Dostupné na: <https://doi.org/10.3847/1538-4357/adc0f6>

2. výsledok

Hľadanie skutočného materského telesa meteorického roja Fénicidy

(Martina Kováčová, Luboš Neslušan, Dušan Tomko)

V roku 2024, kolegovia z Astronomického ústavu v spolupráci s ďalšími zahraničnými pracovníkmi zistili, že meteorický roj Fénicidy (PHO) by mohol na základe podobnosti dráh pochádzať až z troch komét: 46P/Wirtanen, 104P/Kowal 2 a 289P/Blanpain. V práci sme modelovali a následne sledovali prúdy meteoroidov z týchto komét, aby sme zistili, či je materské teleso len jedno, alebo či mohol tento roj vzniknúť z častíc uvoľnených z viacerých komét. Táto úloha nebola jednoduchá vzhľadom na nestabilný dynamický vývoj skúmaných komét, uvoľnených častíc a skutočnosť, že Fénicidy sú v databáze IAU Meteor Data Center definované dvomi pomerne odlišnými riešeniami (t.j. setmi parametrov). Sledovanie dynamického vývoja namodelovaných prúdov z ktorejkoľvek z uvažovaných komét naznačuje, že hoci sú riešenia Fénicíd pomerne rozdielne, môžu byť súčasťou toho istého prúdu. Čo sa týka prvého riešenia, z dynamického hľadiska majú všetky tri kométy prakticky rovnakú pravdepodobnosť byť materským telesom tohto roja. V prípade druhého riešenia, majú najväčšiu pravdepodobnosť takéhoto vývoja meteoroidy uvoľnené z kométy 289P, avšak ani zvyšné kométy nemožno úplne vylúčiť. Celkovo by sme mohli povedať, že dynamika preferuje kométu 289P ako materské teleso Fénicíd, avšak jej hmotnosť je príliš nízka, aby mohla vyprodukovať takýto prúd. Hmotnosti komét 46P a 104P sú podstatne vyššie, čo ich robí vhodnejšími kandidátmi na materské teleso. Nemôžeme vylúčiť ani možnosť, že 289P je najväčším známym členom prúdu Fénicíd, zatiaľ čo 46P a/alebo 104P sú materskými telesami.



Obr.: Vývoj perihéliovej vzdialenosti počas posledných 1000 rokov pre 100 naklonovaných dráh pre každú zo skúmaných komét; 46P/Wirtanen (vľavo), 104P/Kowal 2 (v strede), 289P/Blanpain (vpravo). Farebná škála definuje hustotu/množstvo klonovaných dráh. Vývoj nominálnej dráhy znázorňuje čierna krivka. Všimnite si rozdielnú škálu na vertikálnych osiach.

Search for the True Parent Body of the Phoenicid Meteor Shower

Projekt: VEGA 2/0009/22

Práca:

KOVÁČOVÁ, Martina - NESLUŠAN, Luboš - TOMKO, Dušan. Search for the true parent body of the Phoenicid meteor shower. In *The Astronomical Journal*, 2025, vol. 169, no. 6, article no. 331, p. 1-11. (2024: 5.1 - IF, Q1 - JCR, 2.229 - SJR, Q1 - SJR). ISSN 0004-6256.

2.3.2. Výsledky aplikačného typu

2.3.3. Výsledky na báze medzinárodnej spolupráce

1. Výsledok

Objav množstva prachových objektov, ktoré obieľajú okolo hviezdy v strede planetárnej hmloviny.

(Ján Budaj)

Exoplanéty a menšie telesá boli detegované v okolí rôznych druhov hviezd, ale zatiaľ žiadne okolo centrálnych hviezd planetárnych hmlovín, ktoré sa nachádzajú medzi štádiom asymptotickej vetvy obrov a bielymi trpaslíkmi. Planetárna aktivita (deštrukcia i formovanie) je sprevádzaná vznikom "kúdolu" prachu. Preskúmali sme asi 2000 centrálnych hviezd planetárnych hmlovín a hľadali sme zakryté hviezdy prachovými mrakmi. Objavili sme jednu hviezdu (hmlovina WeSb1), ktorej jasnosť často hlboko a nepravidelne klesá po dobu niekoľkých dní až týždňov. Na základe ďalších pozorovaní sa nám podarilo ukázať, že hviezda je pravdepodobne dvojhviezdou a že poklesy jasnosti sú spôsobené prachom a troskami z rozpadnutých malých telies prechádzajúcich popred druhú zložku dvojhviezdy, ktorá žiari vo viditeľnom svetle. Toto znamená, že planetárne systémy sú prítomné aj v štádiu planetárnej hmloviny, kedy prechádzajú búrlivým vývojom.

Tento článok bol dňa 08. januára 2025 uverejnený v *Nature Astronomy* (<https://www.nature.com/articles/s41550-024-02446-x>) a zároveň bol vybratý do *Nature - Research Highlights* (<https://www.nature.com/articles/d41586-025-00006-5>).



Obr.: Planetárna hmlovina WeSb1. Žiari najmä v emisných čiarach vodíka (červená farba) a kyslíka (modrá a zelená farba). Centrálna hviezda, okolo ktorej obieľajú prachové telesá, je v strede, posunutá mierne dohora. Obrázok (K. Bernhard) je na základe pozorovaní z ďalekohľadov NOT and INT z Kanárskych ostrovov a je prevzatý z *Nature Astronomy*, Jan 8, 2025.

A swarm of dusty objects in orbit around the central star of planetary nebula.

Projekt: VEGA 2/0031/22, APVV-20-0148

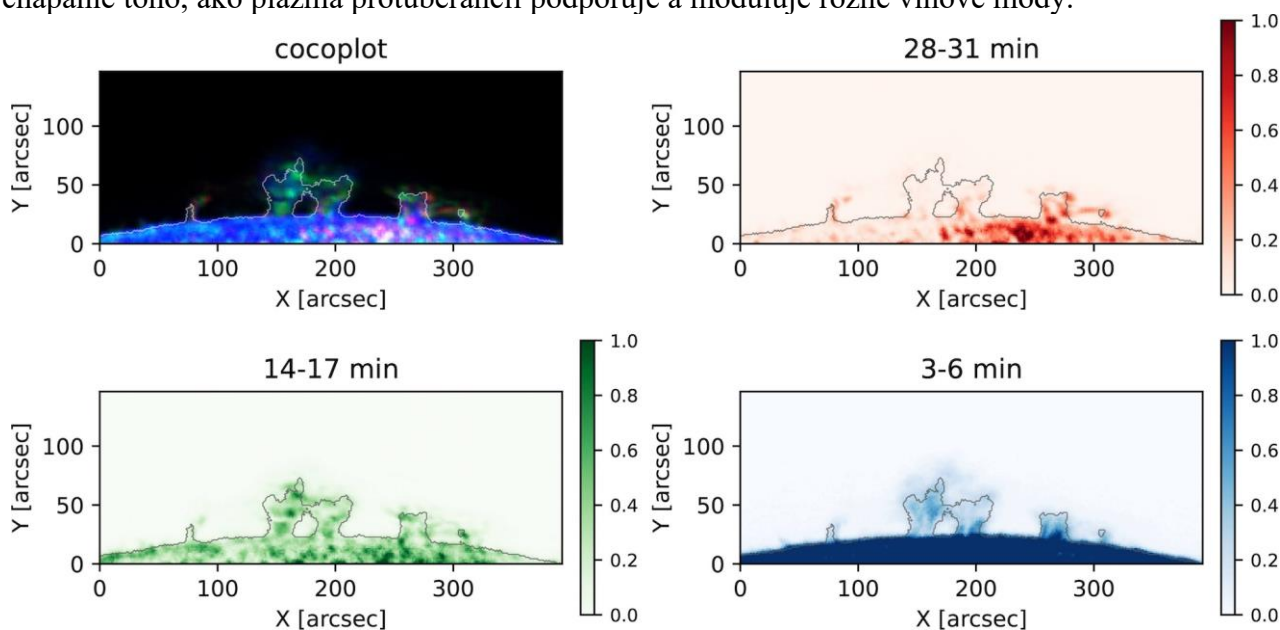
Práca: BUDAJ, Ján - BERNHARD, Klaus - JONES, David - MUNDAY, James. A swarm of dusty objects in orbit around the central star of planetary nebula WeSb1. In *Nature Astronomy*, 2025, vol. 9, no. 3, p. 380-392.

2. výsledok

Vlnková analýza oscilácií v pokojnej protuberancii

(Aneta Wiśniewska, Július Koza, Peter Gömöry)

Dňa 26. septembra 2022 sme pomocou zobrazovacej spektroskopie H α s použitím Dopplerovho zobrazovača Solar Dynamics (SDDI) na ďalekohľade SMART pozorovali pokojnú slnečnú protuberanciu. Na rozdiel od skorších prác, ktoré detegovali 4- a 15-minútové oscilácie pomocou 1D waveletových metód s dlhou štrbinou, sme adaptovali waveletovú analýzu na 3D dáta, aby sme preskúmali celú štruktúru protuberancie. Doplnkové dáta z SDO/AIA (304Å, 171Å) STEREO A/EUVI (304Å) a Solar Orbiter EU/FSI (304Å, 174Å) umožňujú viacpohľadové, multitermálne skúmanie periodicity vln naprieč protuberanciou. Naším cieľom je charakterizovať, ako sú oscilačné periódy rozložené v plazme pri rôznych teplotách a pozorovacích uhloch, a tým posúdiť šírenie a variabilitu vln v celom telese protuberancie. Analyzujeme časové rady Dopplerovho signálu z pozorovaní SMART/SDDI H α spolu so zmenami intenzity EUV z vesmírnych prístrojov. Detegovali sme oscilačné pohyby plazmy s periódami v rozmedzí 3–74 minút. V neutrálnej plazme (H α) dominuje silná periodicita pri 20, 31 a 53 minútach, zatiaľ čo 13- a 74-minútové oscilácie sú výrazné v priepustnom pásme 304Å, sústredené najmä v centrálnej protuberancii. Ďalšie krátkodobé fluktuácie zahŕňajú slabšie 3–6 minútové oscilácie a rýchle 30-sekundové transversálne vlny v Dopplerových signáloch v blízkosti slnečného povrchu. Tieto zistenia zdôrazňujú bohatosť periodicity vln v pokojových protuberanciách a odhaľujú dynamickú superpozíciu dlhodobých a krátkodobých oscilácií, kinkovitých porúch. Táto viacprístrojová 3D perspektíva prehľbuje naše chápanie toho, ako plazma protuberancií podporuje a moduluje rôzne vlnové módy.



Obr.: Vlnkové výkonové spektrum (vľavo hore) s filtermi centrovanými na dominantných periódových pásmach pri 28 – 31 min (vpravo hore), 14 – 17 min (vľavo dole) a 3 – 6 min (vpravo dole). Plná čiara znázorňuje hranicu protuberancie.

Wave Period Variability in a Quiescent Solar Prominence

Projekt: VEGA 2/0043/24

Práca:

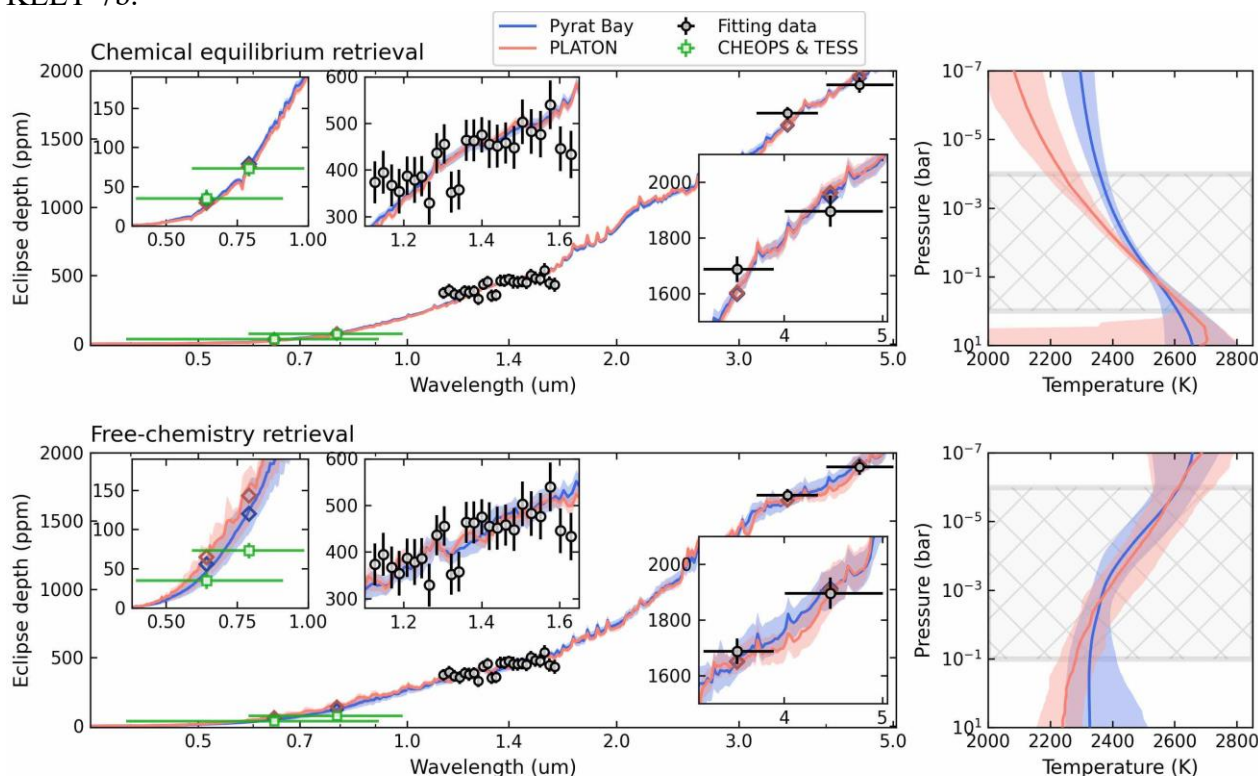
WIŚNIEWSKA, Aneta, - ICHIMOTO, K., - KOZA, Július, - KONTOGIANNIS, I., - PIETROW. A. G. M., - MURO, G. D., - GÖMÖRY, Peter. Wave Period Variability in a Quiescent Solar Prominence. In *The Astrophysical Journal*. 2025, vol. 995, 10 pp. (2024: 5.4 - IF, Q1 - JCR, 2.038 - SJR, Q1 - SJR)

3. výsledok

Preskúmanie záhady teplotnej inverzie v atmosfére KELT-7b pomocou údajov z CHEOPS, TESS a ďalších dát

(Zoltán Garai)

Rané teoretické práce naznačovali, že ultrahorúce Jupitery by mali mať obrátené teplotno-tlakové (T-P) profily v prítomnosti optických absorbérov, akými sú TiO a VO. Nedávno bola takáto inverzia T-P profilu detegovaná aj v prípade exoplanéty KELT-7b, čo je v súlade s teoretickými predpoveďami. Diagnostika T-P inverzií je však už dlho známa ako proces závislý od použitých modelov. V tejto práci sme použili údaje z družíc CHEOPS, TESS a ďalšie publikované merania na charakterizáciu atmosféry KELT-7b. Zistili sme, že pri predpoklade termochemickej rovnováhy atmosférického zloženia vedú emisné analýzy k neobrátenému T-P profilu, v rozpore s predchádzajúcimi výsledkami. Naopak, pri použití voľnej chemickej parametrizácie emisné analýzy dávajú obrátený T-P profil. Trojrozmerný model všeobecnej cirkulácie podporuje scenár teplotnej inverzie spôsobenej TiO. Môžeme teda spraviť konklúziu, že voľba medzi voľnou chemickou parametrizáciou a termochemickou rovnováhou je hlavným faktorom určujúcim výsledky analýz. Voľné chemické analýzy vo všeobecnosti poskytujú lepšie dátové modely, avšak predpoklad voľnej chémie prináša riziko adopcie fyzikálne nekonzistentných scenárov pre ultrahorúce Jupitery, ako je KELT-7b.



Obr.: Atmosférická analýza sekundárnych zákrytov KELT-7b v infračervenej oblasti spektra. Horný ľavý panel: analýzy predpokladajúce termochemickú rovnováhu pomocou softvérov Pyrat Bay (modrá farba) a PLATON (ružová farba). Horný pravý panel: odvodené T-P profily pre každý softvér. Šrafovaná sivá oblasť označuje rozsah tlakov, ktoré sú sondované pozorovaniami. Spodné panely: to isté ako vyššie, ale pre analýzy predpokladajúce voľnú chemickú parametrizáciu.

The KELT-7b atmospheric thermal-inversion conundrum revisited with CHEOPS, TESS, and additional data

Projekty: VEGA 2/0031/22, APVV-20-0148

Práca:

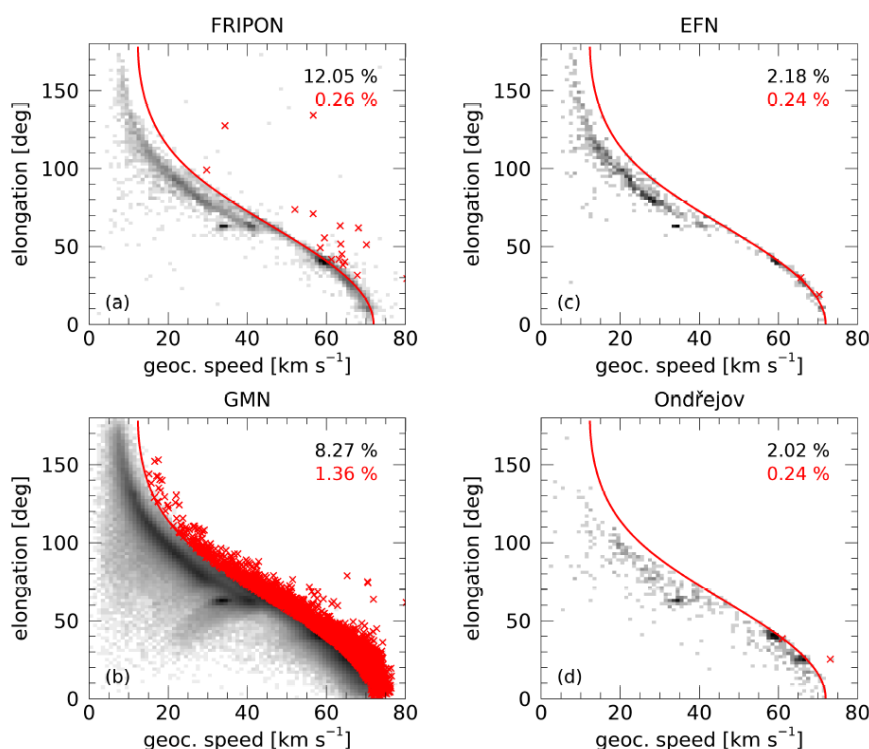
GARAI, Zoltán** - a kol.: The KELT-7b atmospheric thermal-inversion conundrum revisited with CHEOPS, TESS, and additional data. In *Astronomy and Astrophysics*, 2025, vol. 700, article no. A5, p. 1-26. (2024: 5.8 - IF, Q1 - JCR, 1.968 - SJR, Q1 - SJR). ISSN 0004-6361. Dostupné na: <https://doi.org/10.1051/0004-6361/202452560>

4. výsledok

Kresákov diagram: hyperbolické dráhy meteoroidov a ich úroveň spoľahlivosti.

(Silvia Ďurišová, Mária Hajduková)

Predložená práca bola realizovaná v spolupráci s talianskymi a českými tímami astronómov, zameriavajúcimi sa na vylepšenie meraní meteorov, ktorých presnosť a spoľahlivé určenie neistôt výrazne ovplyvňujú výsledky odvodené z týchto údajov. Pomocou sofistikovanej vizualizácie, ktorá súčasne zobrazuje merané údaje meteorov a výslednú dráhu meteoroidu, sme vyvinuli estimátor, ktorý kvantifikuje sklon relatívneho poklesu hyperbolickej zložky pri zvyšujúcich sa úrovniach spoľahlivosti. Tento prístup umožňuje odhaliť časté podhodnotenie chýb meraní v ľubovoľnej databáze. Pomáha autorom databáz pri zlepšovaní redukcie dát a uľahčuje používateľom výber databázy podľa požiadaviek na presnosť. Navrhovaný názov predstaveného nástroja je Kresákov diagram, na počesť autorov (Ľ. Kresák and M. Kresáková) pôvodnej reprezentácie, ktorú sme aplikovali na hyperbolické dráhy a rozvinuli na kvantifikovanie chýb v parametroch dráhy.



Obr.: Kresákov diagram v hustotnom rozložení pre rôzne databázy, zobrazené v logaritmickej čierno-bielej škále. Červená krivka označuje parabolický limit a červené krížiky predstavujú hyperbolické 3σ reziduá, ktoré poskytujú informácie o neistotách parametrov a tým aj o presnosti databázy.

The Kresaks' diagram: Hyperbolic meteoroid orbits and their confidence level.

Projekt: VEGA 2/0009/22

Práca:

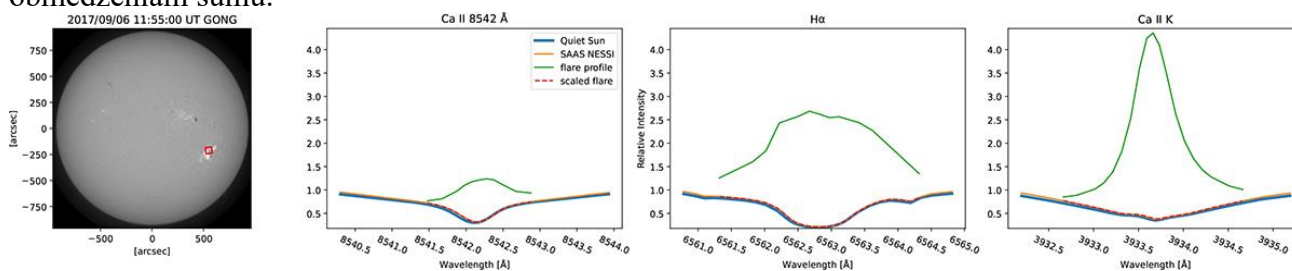
BARGHINI, Dario - ĎURIŠOVÁ, Silvia - KOTEN, Pavel - BERTAINA, Mario - GARDIOL, Daniele - HAJDUKOVÁ, Mária The Kresaks' diagram: Hyperbolic meteoroid orbits and their confidence level. In *Astronomy and Astrophysics*, 2025, vol. 701, article no. A135, p. 1-15. (2024: 5.8 - IF, Q1 - JCR, 1.968 - SJR, Q1 - SJR). ISSN 0004-6361. Dostupné na: <https://doi.org/10.1051/0004-6361/202554274>.

5. výsledok

Syntéza spektier vzplanutí Slnka ako hviezdy z pozorovaní Slnka s vysokým rozlíšením.

(Zurab Vashalomidze, Július Koza, Ján Rybák, Aneta Wiśniewska)

V tomto článku sme vyvinuli a aplikovali metódu na generovanie syntetických spektier Slnka ako hviezdy z pozorovaní Slnka v obmedzenom zornom poli. Pomocou devätnástich súborov údajov o optických erupciách z malej plochy, získaných pomocou švédskeho 1-metrového slnečného teleskopu (SST) v rokoch 2011 až 2024, sme vypočítali spektrá integrované na celom disku. Na tento výpočet sme použili nedávno vydaný numerický empirický integrátor Slnka ako hviezdy (NESSI), ktorý zohľadňuje variácie od stredu k okraju a diferenciálnu rotáciu. Tieto pseudospektrá Slnka ako hviezdy sme publikovali a použili sme ich na skúmanie toho, ktoré fyzikálne procesy na Slnku možno – a nemožno – spoľahlivo odvodiť z pozorovaní hviezdneho typu. Ukazujeme, že pozorovania Slnka z malej plochy možno extrapolovať s vysokou presnosťou tak, aby reprezentovali emisiu z celého disku pri úrovniach šumu porovnateľných s úrovňami dosiahnutými špecializovanými prístrojmi na pozorovanie Slnka ako hviezdy. V syntetických spektrách sme objavili deväť odlišných spektrálnych prvkov, z ktorých štyri pochádzajú z inštrumentálnych efektov. Najdôležitejšie je, že sme identifikovali vzťah medzi heliocentrickým uhlom erupcie a šírkou jej výslednej nadmernej emisie. Taktiež sme objavili mechanizmus schopný vytvárať falošne pozitívne spektrálne podpisy podobné CME v dátach Slnka ako hviezdy. Okrem toho sme odvodili zákon škálovania energetickej intenzity založený na emisiách chromosférických čiar, čo dokazuje, že contrast vrcholu erupcie sa škáluje približne s druhou odmocninou bolometrickej energie erupcie. Celkovo sme ukázali, že naša metóda umožňuje presné porovnanie spektier slnečných a hviezdnych erupcií a umožňuje detekciu signálov, ktoré by inak zostali nedostupné kvôli obmedzeniam šumu.



Obr.: Porovnanie lokalizovaných profilov erupcií a profilov Slnka ako hviezdy integrovaných do disku. Vľavo: Obrázok jadra čiar GONG $H\alpha$ zobrazujúci veľkú slnečnú erupciu (červený rámček) v zornom poli (FOV) typickom pre pozorovania Slnka s vysokým rozlíšením. Vpravo: Profily čiar CaII 8542 Å, $H\alpha$ a CaII K na rôznych miestach: v rámci FOV v pokojnej oblasti (modrá), integrované cez disk pokojného Slnka pre Slnko ako hviezdu (oranžová) a na páse erupcií (zelená). Škálovaná erupcia (červená prerušovaná) je jednoduchým pomerom škálovania plochy FOV k celkovej ploche disku, zatiaľ čo profil NESSI je výsledkom vloženia priemerného profilu erupcie (zelená) do profilu pokojného Slnka na celom disku (modrá).

Synthesizing Sun-as-a-star flare spectra from high-resolution solar observations.

Projekty: 09I03-03-V04-00015, VEGA 2/0043/24

Práca:

DE WILDE, M. - PIETROW, A. G. M.** - DRUETT, M. K. - PASTOR YABAR, A. - KOZA, Július - KONTOGIANNIS, Ioannis - ANDRIENKO, O. - BERLICKI, A. - BRUNVOLL, A. R. - DE LA CRUZ RODRIQUEZ, J. - THOEN FABER, J. - JOSHI, R. - KURIDZE, David - NÓBREGASIVERIO, D. - ROUPPE VAN DER VOORT, L. - RYBÁK, Ján - SCULLION, Eamon - SILVA, A. M. - VASHALOMIDZE, Zurab - VINCENTE ARÉVALO, A. - WISNIEWSKA, Aneta - YADAV, R. - ZAQRASHVILI, Teimuraz V. - ZBINDEN, J. - OYRE, E. S. Synthesizing Sun-as-a-star flare spectra from high-resolution solar observations. In *Astronomy and Astrophysics*, 2025, vol. 700, article no. A275, p. 1-21. (2024: 5.8 - IF, Q1 - JCR, 1.968 - SJR, Q1 - SJR). ISSN 0004-6361.

2.3.4. Ostatné významné výsledky

Kapitola monografie je venovaná aktivite kentaurov, vrátane výbuchov, tvorby kom, epizód vyvrhovania a deštrukcií. Sú diskutované hlavné mechanizmy riadiace túto aktivitu, najmä sublimácia prchavých látok a kryštalizácia amorfného vodného ľadu ako zdroj energie. Analyzovaný je vplyv týchto procesov na morfológiu, dynamiku a evolučné vlastnosti kentaurov. Osobitná pozornosť je venovaná metódam pozemných pozorovaní a prístupom k analýze dát, ktoré umožňujú odhaľovať a interpretovať prejavy aktivity týchto objektov. Projekty: VEGA 2/0059/22, APVV-19-0072, autor: Ivanova, práca: ABC01

Kapitola monografie je venovaná malým telesám, ktoré predstavujú zvyškové stavebné bloky z obdobia, keď sa planéty formovali a presúvali na svoje súčasné pozície. Ich prchavé zloženie a relatívny výskyt fungujú ako časové kapsuly zachovávajúce podmienky vzniku v protoslnečnej hmlovine. Štúdiom a presným určením prchavého zloženia kentaurov môžeme vyplniť významné medzery v poznaní histórie našej Slnečnej sústavy. Kapitola poskytuje prehľad súčasného stavu poznatkov o prchavých látkach v malých telesách, opisuje procesy ovplyvňujúce ich prchavé zloženie a aktivitu, a zároveň predstavuje budúce pozorovania a výskumné možnosti, ktoré umožnia výrazne posunúť naše chápanie prchavých látok práve u kentaurov. Projekty: VEGA 2/0059/22, APVV-19-0072, autor: Ivanova, práca: ABC02

AU Mic je aktívna hviezda typu M s prachovým diskom a dvomi známymi tranzitujúcimi mini-Neptúnmi, pričom sa predpokladá aj tretia exoplanéta. Pomocou fotometrie z misie CHEOPS sme zistili veľmi výrazné variácie časov tranzitov planéty AU Mic c, teda zhruba 80-minútové oneskorenie v rokoch 2022-2023. Variácie možno vysvetliť treťou exoplanétou s periódou 12.6 dňa. Geometria naznačuje retrográdnú obežnú dráhu AU Mic c. Projekty: VEGA 2/0031/22, APVV-20-0148, autor: Garai, práca: ADCA03

V tejto práci sme detailne analyzovali 10 nových ultrakompaktných trojnásobne zákrytových sústav. Použili sme fotometriu z TESS, doplnenú o pozemské merania. Na báze komplexného fotodynamického modelovania sme zistili vonkajšie obežné periódy v rozsahu od 46.8 do 101.4 dňa, rýchly apsidálny pohyb v štyroch sústavách a jednu “double-twin” trojicu. Všetky sústavy majú malé vzájomné inklináčné uhly do 5° . Výsledky sme zahrnuli do štatistickej štúdie. Projekty: VEGA 2/0031/22, APVV-20-0148, autori: Garai, Pribulla, práca: ADCA04

Prúdy meteoroidov môžu mať zložité štruktúry formované procesmi počas ich vzniku a následným vývojom ich obežnej dráhy. Analyzovaných bolo 179 bolidov pozorovaných medzi rokmi 2016 a 2024. Potvrdilo sa, že medzi nimi sú prítomné dva roje, kappa Cygnidy a augustové Drakonidy. Roj meteoroidov produkujúci kappa Cygnidy je v rezonancii hlavného pohybu 5:3 s Jupiterom. Roj je preto výrazne aktívny iba raz alebo dvakrát počas každého 7-ročného obdobia. Augustové Drakonidy majú ešte viac rozšírený radiant a možno ich rozdeliť do troch vetiev v závislosti od polohy perihélia. Určili sa sady reprezentatívnych dráh a následne sa vykonali identifikácie s rojmi, ktoré boli predtým publikované v literatúre. Projekt: VEGA 2/0059/22, autor: Tomko, práca: ADCA05

Pomocou kódu NESSI boli z pozorovaní 19 slnečných erupcií, získaných v rokoch 2011 až 2024 pomocou teleskopu SST, vytvorené syntetické celodiskové kvázi-hviezdne spektrá hviezd typu GV s cieľom zistiť, do akej miery pozorovania Slnka ako hviezdy odzrkadľujú fyziku slnečných erupcií. Práca umožňuje porovnanie slnečných a hviezdnych erupcií a odhadnúť triedu hviezdnej erupcie v škále slnečných erupcií C až X. Projekt: VEGA 2/0043/24, 09I03-03-V04-00015, autori: Koza, Rybák, Vashalomidze, Wiśniewska, práca: ADCA07

Analyzovali sme optickú a röntgenovú premenlivosť počas erupcie čiernej diery MAXI J1820+070 v rôznych časových horizontoch v rokoch 2018 – 2020. Zistili sme optickú a röntgenovú periodicitu

s frekvenciou $1,4517(1) \text{ 1/d}$ (o približne 0,5 % dlhšia ako orbitálna perióda) a pozorovali sme optické kváziperiodické oscilácie (QPO), ktoré zodpovedajú niektorým QPO pozorovaným v röntgenovej oblasti. Projekty: VEGA 2/0030/21, APVV-20-0148, autor: Shugarov, práca: ADCA08

Fotometrické a spektroskopické monitorovanie "Weak-line T Tauri" hviezdy v mladej hviezdokope IC 348, V715 Per, odhalilo, že variabilita čiary $H\alpha$ je modulovaná s rotačnou periódou hviezdy a je v antifáze s jej zmenami jasnosti. Toto správanie sme vysvetlili zákrytom rozsiahlej prachovej štruktúry vo vonkajšom disku. Projekty: VEGA 2/0030/21, APVV-20-0148, autor: Shugarov, práca: ADCA10

Bol vykonaný rozbor spektrálnych a fotometrických údajov kométy C/2014 N3 (NEOWISE) pri heliocentrickej vzdialenosti 4,51 au. V jej spektre neboli zistené žiadne plynové emisné línie, pričom kontinuum vykazuje efekt začervenania so sklonom odrazivosti $(8 \pm 1) \%$ na 1000 Å . Hodnota parametra A_{fp} sa pohybuje v rozmedzí 715–900 cm v závislosti od filtra a polomeru apertúry. Maximálna hodnota produkcie prachu jadrom kométy dosahuje približne 700 kg/s . Modelovanie ukázalo, že celková hmotnosť uvoľneného prachu predstavuje približne $5 \times 10^{10} \text{ kg}$, pričom rýchlosť emisie častíc sa pohybuje od $\sim 1 \text{ m/s}$ pre centimetrové častice až po $\sim 100 \text{ m/s}$ pre mikrónové častice. Projekty: VEGA 2/0059/22, APVV-19-0072, autor: Ivanova, práca: ADCA11

V minulosti nebola známa metóda, ako rozpoznať, či novo nájdený meteorický roj je skutočne novým rojom alebo ďalším „riešením“ už známeho roja a ktorého roja a preto boli viaceré roje nesprávne klasifikované. V práci bolo nájdené, že v oficiálnom IAU zozname je 43 rojov, kde chybná klasifikácia je istá a ďalších 13 rojov, kde je podozrenie na chybnú klasifikáciu. Boli navrhnuté príslušné korekcie. Projekt: VEGA 2/0009/22, autori: Neslušan, Ďurišová, Hajduková, práca: ADCA13

Ožarovaním ľadov uhl'ovodíkov sa môžu vytvárať väčšie, biologicky významné molekuly uhlíka. Pomocou VUV spektroskopie sme skúmali tvorbu komplexných molekúl pri ožarovaní 1keV elektrónmi ľadov uhl'ovodíkov ($\text{CH}_4\text{--C}_8\text{H}_{18}$) a ich zmesí s N_2 alebo NH_3 . Ožarovaním vznikali polyyny (C_8H_2 , C_{10}H_2 , $\text{C}_{12}\text{H}_2\text{--C}_{16}\text{H}_2$), a za prítomnosti dusíka aj cyanopolyyny (C_8H_2 , HC_7N , HC_9N , C_6N_2). Výsledky naznačujú, že radiolytická tvorba (cyano)polyynov v prostredí bohatom na uhl'ovodíky a dusík (napr. Pluto-Charon) je možná. Projekt: VEGA 2/0059/22, autor: Kaňuchová, práca: ADCA14

Fotometrické a radarové pozorovania asteroidu (153201) 2000 WO107 potvrdili, že ide o kontaktné binárne teleso s výraznými svetelnými krivkami, ktorých amplitúda dosahuje až 1,24 mag. Modelovanie ukázalo, že asteroid pozostáva z dvoch elipsoidálnych lalokov s rozmermi $0,68 \times 0,38 \times 0,36 \text{ km}$ a $0,44 \times 0,42 \times 0,16 \text{ km}$, pričom jeho siderická rotačná perióda je $5,017 \pm 0,002 \text{ h}$. Odhadnutá hustota približne $4,8 \text{ g/cm}^3$ naznačuje možný kovový charakter telesa. Analýza dynamiky orbity ukazuje, že celková pravdepodobnosť kolízie so Zemou počas nasledujúcich 10 000 rokov je 7×10^{-5} . Projekty: VEGA 2/0059/22, APVV-19-0072, autor: Ivanova, Husárik, práca: ADCA16

V práci sú prezentované výsledky spektrofotometrického štúdia klasickej novy V615 Vul, ktorá vzplanula 29.7.2024. Určili sme časy poklesu jasnosti $t_{2,V} = 5,2 \text{ dňa}$, $t_{3,V} = 8,9 \text{ dňa}$ a $t_{3,B} = 11,6 \text{ dňa}$, čo zodpovedá veľmi rýchlej nove. Svetelná krivka vykazuje variácie s periódou 6,5 dňa a krátkodobé orbitálne variácie s periódou 0,224 dňa. Odhadli sme základné fyzikálne parametre systému vrátane absolútnej hviezdnej veľkosti, vzdialenosti, farebnej teploty, medzihviezdnej absorpcie a hmotnosti bieleho trpaslíka. Projekty: VEGA 2/0030/21, VEGA 2/0031/22, VEGA 2/0003/25, APVV-20-0148, 09I03-03-V01-00002, autori: Krushevská, Shugarov, Pribulla, práca: ADCA17

Objavili sme zaujímavú dvojhviezdu (BD+20 5391), ktorej obe zložky sú dvojičky, takmer identické hviezdne obry. Simuláciami sme poodhalili ich osud. Obe zložky vyplnia Rocheov lalok takmer súčasne a skončia buď ako tesná dvojica bielych trpaslíkov alebo ako merger. Projekty: VEGA 2/0031/22, APVV-20-0148, autori: Kundra, Budaj, práca: ADCA18

Vytvorili sme algoritmy a kód v jazyku C na odhalenie kvantovej kontextuality a výpočet stupňa kontextuality pre rôzne bodovo-priamkové geometrie vnorené do binárnych symplektických polárnych priestorov malého ranku. S týmto kódom sme nielen dokázali efektívnejšie získať všetky výsledky nedávneho článku de Boutraya a kol. [Journal of Physics A: Mathematical and Theoretical 55 (2022) 475301], ale dospeli sme aj k mnohým novým pozoruhodným výsledkom. Projekt: VEGA 2/0004/20, autor: Saniga, práca: ADCA21

Zaviedli sme novú heuristickú metódu na nájdenie hornej hranice stupňa kontextuality a zodpovedajúcej nereprodukovateľnej časti kvantovej kontextuálnej konfigurácie s trojprvkovými kontextmi v multi-qubitovom symplektickom polárnom priestore rádu dva. Zatiaľ čo predtým používaná metóda založená na SAT-solveri bola obmedzená na tri qubity, táto nová metóda je oveľa rýchlejšia a všestrannejšia, čo nám umožnilo spracovať aj prípady so štyrmi až šiestimi qubitmi. Projekt: VEGA 2/0043/24, autor: Saniga, práca: ADCA22

Transneptunické objekty (TNO) patria medzi najstaršie telesá Slnečnej sústavy, preto (24835) 1995 SM₅₅, člen skupiny Haumea, je mimoriadne zaujímavým objektom. Na základe úspešne pozorovaného zákrytu hviezdy 25. februára 2024 sme odvodili rozmery telesa, ktoré sú cca 104,3 x 83,5 km. Ekvivalentný priemer objektu je približne 186,7 km. Kombináciou premietnutých rozmerov a absolútnej fotometrie sme získali geometrické albedo zhruba 0,8. Projekty: VEGA 2/0031/22, APVV-20-0148, autor: Garai, práca: ADCA23

Skúmali sme využitie techník strojového videnia a ich aplikáciu na klasifikáciu svetelných kriviek zákrytových dvojhviezd. Naším hlavným cieľom bolo vyvinúť automatizovanú metódu na rozlíšenie medzi oddelenými a kontaktnými sústavami a ďalej ich klasifikovať na základe prítomnosti alebo neprítomnosti hviezdnych škvŕn. Zatiaľ čo primárna binárna klasifikácia bola veľmi úspešná, sekundárna úloha automatizovanej detekcie škvŕn bola vykonaná nedostatočne, čo odhalilo významné obmedzenie našich modelov pri identifikácii jemných fotometrických efektov na svetelných krivkách. Projekt: APVV-20-0148, VEGA 2/0031/22, autor: Vaňko, práca: ADCA24

Rozštiepené Cayleyho šesťuholníky rádu dva sa nachádzajú v troj-qubitovom symplektickom polárnom priestore v dvoch rôznych formách, nazývaných klasická a šikmá. Hoci ani jedna z nich nie je kontextuálnou konfiguráciou per se, klasicky vnorené kópie plne kódujú kontextuálne vlastnosti najvýznamnejších troj-qubitových konfigurácií v nasledujúcom zmysle: pre každú množinu nereprodukovateľných kontextov takejto konfigurácie vždy existuje určitý klasicky-vnorený šesťuholník, ktorý zdieľa s uvedenou konfiguráciou presne túto množinu kontextov a nič viac. Projekt: VEGA 2/0043/24, autor: Saniga, práca: ADCA25

Mladá planetárna sústava AU Mic má iba 24 miliónov rokov a jej obežná geometria môže poskytnúť dôležité informácie o ranom dynamickom vývoji planetárnych sústav, preto sme vykonali prvé meranie tzv. Rossiter-McLaughlinovho efektu exoplanéty AU Mic c pomocou spektrografu VLT/ESPRESSO a vesmírneho observatória CHEOPS. Zistili sme, že obežná dráha AU Mic c môže byť značne vychýlená voči rovine rovníka hviezdy. Možné príčiny boli diskutované. Projekty: VEGA 2/0031/22, APVV-20-0148, autor: Garai, práca: ADCA31

Bolo ukázané, že nemáme zatiaľ ani jediný dôkaz o skutočne hyperbolickom meteoroid. Hyperbolické dráhy meteoroidov v databázach sú najmä dôsledkom chýb určenia ich rýchlostí. V novších databázach, ktorých presnosť je vyššia, je podiel hyperbolických meteorov oveľa nižší ako

v starších, menej presných dátach. Projekt: 2/0009/22, autori: Ďurišová, Hajduková, práca: ADEB01

Boli určené periódy superhrbov a orbitálne periódy trpasličích nov Gaia21djh, Gaia19bwr, Gaia21akq, Gaia21enu a Gaia18cjd. Analýza fyzikálnych parametrov ukázala, že všetky systémy majú nízke pomery hmotností zložiek ($q < 0.3$), čo zodpovedá slapovej nestabilite. Štúdium parametrov supervýbuchov odhalilo výraznú variabilitu trvania rôznych fáz supervýbuchu, ako je dĺžka plató fázy, amplitúda a pod. Projekty: VEGA 2/0031/22, APVV-20-0148, 09I03-03-V01-00002, autor: Krushevska, práca: ADMA01

Využitie ďalekohľadov:

Pozorovania 1,3-m Cassegrain-Nasmyth ďalekohľadom na Skalnatom Plese:
Spektrograf MUSICOS: pozorovania počas 93 nocí, celkový pozorovací čas 707 hodín.
Fotometria komét a asteroidov – 329 hodín čistého pozorovacieho času v 46 nociach.

0,61-m Newton na Skalnatom Plese:
Fotometrický program – 992 hodín čistého pozorovacieho času v 134 nociach.

Digitálna bolidová kamera v Starej Lesnej – 2184 hodín čistého pozorovacieho času v 294 nociach.
Spektrálna digitálna bolidová kamera v Starej Lesnej – 2014 hodín čistého pozorovacieho času v 289 nociach.

0,60-m Cassegrain v pavilóne G2 v Starej Lesnej:
CCD kamera FLI ML3041: pozorovania počas 188 nocí, celkový pozorovací čas 1242 hodín.

Koronografy – Observatórium Lomnický štít:
Pozorovania: prístroj CoMP-S: reálne pozorovania - 74 dní, pokusy o pozorovania - 29 dní, testy - 2 dni

2.4. Publikačná činnosť (zoznam je uvedený v prílohe A-3)

Tabuľka 2e Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	Počet v r. 2025/ doplňky z r. 2024
1. Vedecké monografie a monografické štúdie vydané v domácich vydavateľstvách (AAB, ABB)	0 / 0
2. Vedecké monografie a monografické štúdie vydané v zahraničných vydavateľstvách (AAA, ABA)	0 / 0
3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané v domácich vydavateľstvách (BAB, ACB, CAB)	0 / 0
4. Odborné monografie a vysokoškolské učebnice a učebné texty vydané v zahraničných vydavateľstvách (BAA, ACA, CAA)	0 / 0
5. Kapitoly vo vedeckých monografiách vydaných v domácich vydavateľstvách (ABD)	0 / 0
6. Kapitoly vo vedeckých monografiách vydaných v zahraničných vydavateľstvách (ABC)	2 / 0
7. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v domácich vydavateľstvách (BBB, ACD)	0 / 0
8. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v zahraničných vydavateľstvách (BBA, ACC)	0 / 0
9. Vedecké práce registrované v Current Contents Connect (ADCA, ADCB, ADDA, ADDB)	29 / 2
10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus (ADMA, ADMB, ADNA, ADNBN)	6 / 0
11. Vedecké práce v ostatných domácich časopisoch (ADFA, ADFB)	0 / 0
12. Vedecké práce v ostatných zahraničných časopisoch (ADEA, ADEB)	2 / 0
13. Vedecké práce v domácich recenzovaných zborníkoch (AEDA)	0 / 0
14. Vedecké práce v zahraničných recenzovaných zborníkoch (AECA)	0 / 0
15. Publikované príspevky na domácich vedeckých konferenciách (AFB, AFD)	0 / 0
16. Publikované príspevky na zahraničných vedeckých konferenciách (AFA, AFC)	0 / 0
17. Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS	1
18. Ostatné vydané periodiká	0
19. Zostavovateľské práce knižného charakteru (FAI)	0 / 0
20. Preklady vedeckých a odborných textov (EAJ)	0 / 0
21. Heslá v odborných terminologických slovníkoch a encyklopédiách (BDA, BDB)	0 / 0
22. Recenzie v časopisoch a zborníkoch (EDI)	0 / 0

Evidujú sa len tie práce zamestnancov a doktorandov, v ktorých je uvedená afiliácia k organizácii

Tabuľka 2f Štatistika vedeckých prác podľa kvartilu vedeckého časopisu

Kvartil vedeckého časopisu	Q1	Q2	Q3	Q4	Spolu
Podľa IF z r. 2024 (zdroj JCR) <i>Počet článkov / doplnky</i>	23 / 0	2 / 0	3 / 1	4 / 1	32 / 2
Podľa SJR z r. 2024 (zdroj Scimago) <i>Počet článkov / doplnky</i>	23 / 0	3 / 1	4 / 1	5 / 0	35 / 2

Tabuľka 2g Ohlasy

OHLASY	Počet v r. 2024/ doplnky z r. 2023
Citácie vo WOS (1.1, 2.1)	859 / 3
Citácie v SCOPUS (1.2, 2.2)	95 / 0
Citácie v iných citačných indexoch a databázach (9, 10, 3.2, 4.2)	155 / 1
Citácie v publikáciách neregistrovaných v citačných indexoch (3, 4, 3.1, 4.1)	10 / 0
Recenzie na práce autorov z organizácie (5, 6, 7, 8)	0 / 0

2.5. Aktívna účasť na vedeckých podujatiach

2.5.1. Aktívna účasť na medzinárodných vedeckých podujatiach

ADAMČÁK, J. – PRIBULLA, T.: Low-cost automatisation of manual equatorial telescope made by Carl Zeiss Jena II. VIII Workshop on Robotic Autonomous Observatories, Retamar, Almeria, Španielsko, 06.-10.10.2025.

ANDRIIV, Yu. – KRUSHEVSKA, V. – SHUGAROV, S. – ANDREEV, M.: Photometric Variability of the Dwarf Novae J17374270+4915116 and ASASSN-24hf. XXV Gamow International Astronomical Conference, Odesa, Ukrajina, 18.-22.08.2025.

BENKO, M. – GÖMÖRY, P.: Structure of the sunspot magnetic field during a Solar flare. The Solar Polarization Workshop 11 (SPW11), Praha, Česko, 08.-12.09.2025.

BUDAJ, J.: A swarm of dusty objects in orbit around the central star of planetary nebula WeSb 1. Tatra Astro Summit 2025, Stará Lesná, Slovensko, 22.-26.9.2025.

BUDAJ, J.: A swarm of dusty objects in orbit around the central star of planetary nebula WeSb 1. KOLOS 2025, Kolonica, Slovensko, 04.-06.12.2025.

BUDAJ, J. – ORIKHOVSKYI, D.: A swarm of dusty objects in orbit around the central star of planetary nebula WeSb 1. Detection and Dynamics of Exoplanets (DDE): Interplay Between Theory and Observations, Coimbra, Portugalsko, 07.-11.07.2025.

GARAI, Z. – BOLDOG, Á. – SZABÓ, Gy. M. – KRISKOVICS, L. – BORSATO, L. – GANDOLFI, D. – LENDL, M. – GUNTHER, M. N. – HEITZMANN, A. – WILSON, T. G. – BRANDEKER, A.: Dynamics of the AU Mic system as recently observed with CHEOPS. Detection and Dynamics of Exoplanets (DDE): Interplay Between Theory and Observations, Coimbra, Portugalsko, 07.-11.07.2025.

GARAI, Z. – BOLDOG, Á. – SZABÓ, Gy. M. – KRISKOVICS, L. – BORSATO, L. – GANDOLFI, D. – LENDL, M. – GUNTHER, M. N. – HEITZMANN, A. – WILSON, T. G. – BRANDEKER, A.: Dynamics of the AU Mic system as observed with CHEOPS. Tatra Astro Summit 2025, Stará Lesná, Slovensko, 22.-26.09.2025.

HAJDUKOVÁ, M.: From meteor phenomena to the body's origin. International Space Science Institute Meeting, ISSI #23-580, Bern, Švajčiarsko, 10.-13.06.2025.

HAJDUKOVÁ, M., – NESLUŠAN, L. – RUDAWSKA, R., – ŽURIŠOVÁ, S., – JOPEK, T.: Meteor Showers in Focus: Exposing Duplicates and Reclassification Needs. Meteoroids 2025, Perth, Austrália, 07.-11.07.2025.

HAJDUKOVÁ, M.: Interstellar meteoroids - Panel Discussion. Meteoroids 2025, Perth, Austrália, 07.-11.07.2025.

HUSÁRIK, M.: Telescopes and activity of the Astronomical Institute of the Slovak Academy of Sciences. Innovative Uses of Small-medium Telescopes. INAF, Brera, Miláno, Taliansko, 17.-18.02.2025.

IVANOVA, O.: Dust properties of distant comet C/2014 N3 (NEOWISE) beyond the snow line. 11th Dust Workshop. Istituto di Scienze Marine (ISMAR – CNR) Arsenale, Castello, Benátky, Taliansko, 18.-21.03.2025.

IVANOVA, O. What we expect from the Comet Interceptor Mission? Astronomy and Space Physics, Kyjev, Ukrajina, 27.-30.05.2025.

IVANOVA, O.: The scattering properties of distant comet C/2020 V2 (ZTF). The 21st Electromagnetic and Light Scattering Conference, Milazzo, Taliansko, 23.-27.06.2025.

IVANOVA, O. – MARKKANEN, J. – VOITKO, A. – KLESHCHONOK, V. – LUK'YANYK, I.: Dust Properties of Comet C/2020 V2 (ZTF) at beyond 4 au. EPSC-DPS Joint Meeting 2025, Helsinki, Fínsko, 07.-12.09.2025.

KAŠPAROVÁ, J. – DUDÍK, J. – KARLICKÝ, M. – ZEMANOVÁ, A. – MASSA, P. – KRUCKER, S. – SCHULLER, F. – RYBÁK, J.: Radio, X-ray, and EUV signatures of internal and external reconnection of erupting flux rope. STIX Team Meeting 2025, Potsdam, Nemecko, 06.-09.10.2025.

KOVÁČOVÁ, M.: Examination of the Transportation Abilities of Mean Motion Resonances in the Main Asteroid Belt. 6th International Chaos and Complex Systems Symposium 2025, Istanbul, Turecko, 08.-10.05.2025.

KOVÁČOVÁ, M.: Examination of the transportation abilities of the 3:1 MMR with Jupiter. EPSC-DPS Joint Meeting 2025, Helsinki, Fínsko, 07.-12.09.2025.

KOZA, J. – KURIDZE, D.: Exploring Solar Flares: The Magnetism of Flare Loops, Tatra Astro Summit 2025, Stará Lesná, Slovensko, 22.-26.09.2025.

KOZHUKHOV, O. – KUDAK, V. – PERIG, V. – KOSHKIN, N. – SHAKUN, L.: New Twin Tube Telescope for Photometry of LEO Objects. 2025 Advanced Maui Optical and Space Surveillance Technologies Conference (AMOS), Maui, Hawaii, 16.-19.09.2025.

KRUSHEVSKA, V. – SHUGAROV, S. – PRIBULLA, T. – KUZNYETSOVA, Yu. – ANDREEV, M. – PETRÍK, K. – PETROV, M. – DUBOVSKÝ, P.: Photometric investigation of the classical nova V615 Vul. European Astronomical Society Annual Meeting - EAS 2025, Cork, Írsko, 23.-27.06.2025.

KRUSHEVSKA, V. – SHUGAROV, S. – PRIBULLA, T. – KUZNYETSOVA, Yu. – ANDREEV, M. – PETRÍK, K. – PETROV, M. – DUBOVSKÝ, P.: Optical investigation of the classical nova V615 Vul: determination of the main physical characteristics. The Golden Age of Cataclysmic Variables and Related Objects – VII, Palermo, Taliansko, 01.-06.09.2025.

LOMINEISHVILI, S. – GÖMÖRY, P. – VASHALOMIDZE, Z.: Kink instability of partially ionized plasma jets in the solar atmosphere I. Aligned Jets. Waves and Instabilities in the Solar Atmosphere (WISA), Rím, Taliansko, 22.-26.09.2025.

MARKKANEN, J. – IVANOVA, O. – SKOROV, Y. – SHUBINA, O. – VOITKO, A. – HUMES, O.: Light scattering by icy cometary dust particles. EPSC-DPS Joint Meeting 2025, Helsinki, Fínsko, 07.-12.09.2025.

MARSAKOVA, V. – SHUGAROV, S. – ANDRONOV, I.: Multifrequency and Multiscale Behaviour of Symbiotic Novae: From Outbursts to Red Giant Pulsations. The Golden Age of Cataclysmic Variables and Related Objects – VII, Palermo, Taliansko, 01.-06.09.2025

MARSAKOVA, V. – SHUGAROV, S. – ANDRONOV, I.: Multicolor Analysis of Variability in the Symbiotic Star V407 Cyg. XXV Gamow International Astronomical Conference, Odesa, Ukrajina, 18.-22.08.2025.

MARSAKOVA, V. – SHUGAROV, S. – ANDRONOV, I.: Pulsations of Red Giants in Symbiotic Systems: Secular Period Variations and Multiperiodic Behaviour. KOLOS 2025, Kolonica, Slovensko, 04.-06.12.2025

MULLER, A. – GIORGETTI, A. – SANIGA, M.: Generation of state-independent contextuality proofs from hypergraphs. Journées Informatique Quantique 2025, Gif-sur-Yvette, Francúzsko, 28.-29.01.2025.

NESLUŠAN, L.: Newly discovered features of relativistic compact objects. 26Th SIGRAV Conference on General Relativity and Gravitation (SIGRAV 2025), Miláno, Taliansko, 08.-12.09.2025.

NESLUŠAN, L.: Newly discovered property of relativistic gravity in the interior of compact objects. Tatra Astro Summit 2025, Stará Lesná, Slovensko, 22.-26.09.2025.

NESLUŠAN, L. – TOMKO, D.: Long-period dynamical evolution of the meteoroid stream originating in comet 21P/Giacobini-Zinner. EPSC-DPS Joint Meeting 2025, Helsinki, Fínsko, 07.-12.09.2025.

ORIKHOVSKYI, D. – PRIBULLA, T.: Photometric study of misaligned hot Jupiter KELT-7b. Detection and Dynamics of Exoplanets (DDE): Interplay Between Theory and Observations, Coimbra, Portugalsko, 07.-11.07.2025.

PARIMUCHA, Š. - MARKUS, J. - GAJDOŠ, P., - VANĚKO, M.: Prediction of photometric parameters of W UMa eclipsing binaries using deep-learning models. KOLOS 2025, Kolonica, Slovensko, 04.-06.12.2025.

PRIBULLA, T.: Orbital precession in confirmed exoplanets and planetary candidates. KOLOS 2025, Kolonica, Slovensko, 04.-06.12.2025.

PRIBULLA, T.: Instrumentation of Astronomical Institute of the SAS – recent results in stellar astronomy. Innovative Uses of Small-medium Telescopes, INAF, Brera, Miláno, Taliansko, 17.-18.02.2025.

PRIKRYL, P. – RUŠIN, V.: Occurrence of tornado outbreaks in the context of solar wind coupling to magnetosphere-ionosphere-atmosphere. 2025 CAP Congress, Saskatoon, Kanada, 09.-13.06.2025.

PRIKRYL, P. – RUŠIN, V.: Interconnection between Space Weather and Tropospheric Weather: Occurrence of Large Tornado Outbreaks in the Context of Solar Wind Coupling to Magnetosphere-Ionosphere-Atmosphere. The AGU Annual Meeting, Extreme Events: Observations and Modeling. New Orleans, Louisiana, USA, 15.-19.12.2025.

SHAGATOVA, N. - SKOPAL, A.: Insights into the wind transfer in quiescent symbiotic stars. KOLOS 2025, Kolonica, Slovensko, 04.-06.12.2025.

SHUBINA, O.: Astronomical instrumentation and research projects at Astronomical Institute of the SAS – recent results of comets' observations. Innovative Uses of Small-medium Telescopes, INAF, Brera, Miláno, Taliansko, 17.-18.02. 2025.

SHUBINA, O.: Dust environment of comet 67P/Churyumov–Gerasimenko in 2021-2022 apparition. 11th Dust Workshop. Istituto di Scienze Marine (ISMAR – CNR) Arsenale, Castello, Benátky, Taliansko, 18.-21.03.2025.

SHUBINA, O.: Science without borders in Slovak-Ukrainian astronomy through shared experience and support. Recovery Plan for Ukrainian Astronomy: Post-war Recovery in Ukraine through Astronomy Seminar, Leiden University, Leiden, Holandsko, 09.-13.06. 2025.

SHUBINA, O.: Polarimetric properties of cometary dust based on DBCP V3.0. The 21st Electromagnetic and Light Scattering Conference, Milazzo, Taliansko, 23.-27.06.2025.

SHUBINA, O. – IVANOVA, O.: Quasi-simultaneous observations of comet 41P/Tuttle-Giacobini-Kresak in 2017 apparition. EPSC-DPS Joint Meeting 2025, Helsinki, Fínsko, 07.-12.09.2025.

SHUGAROV, S. – SKRIPNIKOV, V. – ZUBAREVA, A. – METLOV, V. – IKONNIKOVA, N.: Photometric investigation of AT2023qql, the optical counterpart of X-ray Nova. The Golden Age of Cataclysmic Variables and Related Objects – VII, Palermo, Taliansko, 01.-06.09.2025.

SHUGAROV, S. – METLOV, V. – IKONNIKOVA, N. – SKRIPNIKOV, V. – ZUBAREVA, A.: Multicolor observations and analysis of the optical variability of X-ray Transient Swift J1727.8-1613. European Astronomical Society Annual Meeting - EAS 2025, Cork, Írsko, 23.-27.06.2025.

SHUGAROV, S. – TARASENKOV, A. – IKONNIKOVA, N. – BURLAK, N. – NAZARENKO, S.: Evolution of superhumps of a new WZ Sge-type system in Delphini. KOLOS 2025, Kolonica, Slovensko, 04.-06.12.2025.

SKOPAL, A.: Z And-type outbursts in accreting white dwarf binaries. Tatra Astro Summit 2025, Stará Lesná, Slovensko, 22.-26.09.2025.

SKOPAL, A.: Early evolution of the recurrent symbiotic nova RS Ophiuchii. KOLOS 2025, Kolonica, Slovensko, 04.-06.12.2025.

VASHALOMIDZE, Z. – ZAQARASHVILI, T. – BENKO, M. – KURIDZE, D. - GÖMÖRY, P. – RYBÁK, J. – COLLADOS, M. – DENKER, C. – VERMA, M. – QUINTERO-NODA, C. – KUCKEIN, C.: Infrared spectropolarimetry of a C-class solar flare footpoint plasma. Waves and Instabilities in the Solar Atmosphere (WISA), Rím, Taliansko, 22.-26.09.2025.

VOITKO, A. – IVANOVA, O.: Short-term color changes in comets at large heliocentric distances. EPSC-DPS Joint Meeting 2025, Helsinki, Fínsko, 07.-12.09.2025.

VOITKO, A. – IVANOVA, O.: Mechanisms and statistics of cometary dust color changes. 31st Young Scientists' Conference on Astronomy and Space Physics, Kyjev, Ukrajina, 07.-11.04.2025.

WIŚNIEWSKA, A. – ICHIMOTO, K. – KOZA, J. – KONTOGIANNIS, I. – PIETROW, A.G. – MURO, G.D. – GÖMÖRY, P.: Propagating Waves Inside a Quiescent Prominence. Japan Geoscience Union Meeting 2025, Makuhari Messe, Chiba, Japonsko, 25.-30.05.2025.

WIŚNIEWSKA, A. – ICHIMOTO, K. – KOZA, J. – KONTOGIANNIS, I. – PIETROW, A.G. – MURO, G.D. – GÖMÖRY, P.: Wavelet-Based Method for the Analysis of Propagating Waves in a Solar Prominence. European Space Weather Week 25, Umeå, Švédsko, 27.-31.10.2025.

WIŚNIEWSKA, A.: OSCARS Funded Project Federation of solar Data. European Space Weather Week 25, Umeå, Švédsko, 27.-31.10.2025.

2.5.2. Aktívna účasť na národných vedeckých podujatiach

HAMBÁLEK, L. – MALIUK, A.: TESS Phase light curves of binaries and search for a close match in a pre-compiled database, Bezovec 2025, Nová Lehota, Slovensko, 06.-08.06.2025

Tabuľka 2h Vedecké podujatia

Prednášky a vývesky na medzinárodných vedeckých podujatiach	56
Prednášky a vývesky na národných vedeckých podujatiach	1

2.6. Vyžiadané prednášky

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

2.6.2. Vyžiadané prednášky na národných vedeckých podujatiach

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

CEHULA, J.: Theory of stellar mass loss and its implications: from binary stars to magnetars, Astronomy seminar, Tartu Observatory, University of Tartu, Estónsko, november 2025.

ĎURIŠOVÁ, S.: External Dust Flux into the Saturn System – Revisiting Data from the Cassini's CDA. Planetary Sciences and Remote Sensing Group Seminar, Freie Universität Berlin, Berlín, Nemecko, 17.07.2025.

HAJDUKOVÁ, M.: The Complexity of Meteoroid Streams and the Classification of Meteor Showers. Astronomický seminár, Ústav teoretické fyziky a astrofyziky, Přírodovědecká fakulta, Masarykova Univerzita, Brno, Česko, 12.05.2025.

HUSÁRIK, M.: Photometry & spectroscopy of the comet 12P/Pons-Brooks + Small talk about 1997 QK1, 2004 VA, and binary asteroid Tholen. Institute of Astrophysics of National Academy of Sciences of Tajikistan, Dušanbe, Tadžikistan, 28.11.2025.

KANUCHOVÁ, Z.: Ionizing particle irradiation in Astrophysical Studies. Ústav teoretické fyziky a astrofyziky, Masarykova univerzita Brno, Česko, 15.12.2025.

KOZA, J.: The Magnetism and Plasma Properties of Cool Off-limb Flare Loops. Solar Physics Seminar of the Astronomical Institute of the University of Wrocław, Wrocław, Poľsko, 17.11.2025.

MALIUK, A. – HAMBÁLEK, Ľ. – MELICHERČÍK, M. – PRIBULLA, T.: From light curves to stellar parameters machine learning applications for contact binaries. Astronomický ústav AV ČR, Ondřejov, Česko, 17.09.2025.

RYBÁK, J.: LSO/CoMP-S instrument: polarimetric calibration - preliminary results. UCoMP Science Informal Lunch Discussion, HAO/NCAR, Boulder, USA, 20.05.2025. (online)

RYBÁK, J.: Lomnický štít Observatory: last 3 years – 9/2022-7/2025. Kanzelhöhe Observatory for solar and environmental research, Treffen, Rakúsko, 19.08.2025.

RYBÁK, J.: LSO/CoMP-S instrument: polarimetric calibration - preliminary results. Kanzelhöhe Observatory for solar and environmental research, Treffen, Rakúsko, 19.08.2025.

SHUBINA, O., Dust in comae of short-period comets: case of 67P/Churyumov–Gerasimenko. Institute of Astrophysics of National Academy of Sciences of Tajikistan, Dušanbe, Tadžikistan, 28.11.2025.

VANĚKO, M.: The fine effects in the TESS light curves of selected CP stars (and other projects). Přírodovědecká fakulta, Masarykova univerzita, Brno, Česko, 17.02.2025.

VANĚKO, M.: Probing the magnetospheres of a sample of the CP stars through the dips in their TESS light curves. Institute of Astronomy, Faculty of Physics, Astronomy and Informatics, Nicolaus Copernicus University, Toruń, Poľsko, 19.05.2025.

2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2025

Vedecká činnosť na Astronomickom ústave SAV, v. v. i. je v súlade so zakladacou listinou zameraná výlučne na základný výskum, a preto nevykonáva žiadnu patentovú a licenčnú činnosť.

2.8. Účasť expertov na hodnotení národných projektov (APVV, VEGA a iných)

Tabuľka 2i Experti hodnotiaci národné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Gömöry Peter	Doktogranty - granty pre doktorandov SAV	6
Hajduková Mária	Granty mladých Univerzity Komenského	1
Hambálek Ľubomír	VVGS UPJŠ (Vnútný vedecký grantový systém Univerzity Pavla Jozefa Šafárika v Košiciach)	1
Pribulla Theodor	GAUK	1
	VEGA	1
Skopal Augustín	VEGA	1
Vaňko Martin	SAIA n. o.	58
	VEGA	1

2.9. Účasť na spracovaní hesiel do encyklopédie Beliana

Počet autorov hesiel: 20

2.10. Recenzovanie knižných publikácií a príspevkov vo vedeckých časopisoch

Tabuľka 2j Počet vypracovaných recenzií na vedecké monografie, vedecké štúdie a zborníky

Meno pracovníka	Ved. monografie		Príspevky v časopisoch			Zborníky	
	Domáce	Zahra- ničné	WoS, SCOPUS	Iné databázy	Ostatné	Domáce	Zahra- ničné
Budaj Ján	0	0	4	0	0	0	0
Cehula Jakub	0	0	1	0	0	0	0
Hajduková Mária	0	0	8	0	0	0	0
Hambálek Lubomír	0	0	1	0	0	0	0
Ivanova Oleksandra	0	0	5	0	0	0	0
Kaňuchová Zuzana	0	0	3	0	0	0	0
Krushevskia Viktoriia	0	0	1	0	0	0	0
Neslušan Luboš	0	0	2	0	0	0	0
Pribulla Theodor	0	0	15	0	0	0	0
Saniga Metod	0	0	2	0	0	0	0
Shubina Olena	0	0	3	0	0	0	0
Shugarov Sergey	0	0	2	0	0	0	0
Skopal Augustín	0	0	3	2	0	0	0
Vaňko Martin	0	0	2	0	0	0	0
Spolu	0	0	52	2	0	0	0

2.11. Iné informácie k vedecko-výskumnej činnosti.

Členstvo v medzinárodných vedeckých komisiách ad hoc, porotách a pod.:

P. Gömöry: European Solar Telescope - FUNDACIÓN CANARIA, funkcia: viceprezident medzinárodnej neziskovej nadácie; Science Advisory Group pre ďalekohľad EST, funkcia: člen.

M. Hajduková: Working Group on Meteor Shower Nomenclature of IAU Commission F1 (Meteors, Meteorites, and Interplanetary Dust), funkcia: člen.

O. Ivanova: Hlavné astronomické observatórium NAS Ukrajiny, funkcia: člen špecializovanej vedeckej rady na udelenie vedeckej hodnosti doktor fyzikálnych a matematických vied (kandidát fyzikálnych a matematických vied) v odbore 01.03.03 "Heliofyzika a fyzika Slnecnej sústavy", funkcia: člen; INSCIENCE, funkcia: člen.

A. Kučera: Hodnotiaca komisia Programu SASPRO2, funkcia: predseda; Konsenzuálny panel Programu SASPRO2, funkcia: člen.

T. Pribulla: Panel PE9, European Research Council, Consolidator grants 2025. funkcia: člen.

3. Medzinárodná vedecká spolupráca

3.1. Medzinárodné vedecké podujatia

3.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2025 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

Tatranský astronomický summit 2025, Astronomický ústav SAV, v. v. i., Tatranská Lomnica, 41 účastníkov, 22.09.-26.09.2025

Cieľom podujatia Tatra Astro Summit 2025 bolo vytvorenie príležitosti pre výmenu skúseností a nadviazanie spolupráce medzi pracovníkmi českých a slovenských vedeckých ústavov a univerzít. Konferencie sa zúčastnili pracovníci a študenti z celkovo 10 inštitúcií, ktorí prezentovali 31 príspevkov venovaných hviezdnyh sústavám, exoplanétam, Slnku, čiernym dieram v centrách galaxií, kopám galaxií, ale aj optickým a družicovým technológiám.

COST 22133 WG1 Meeting „Build it up: laboratory perspectives on planet formation”, Hotel Panoráma, Štrbské Pleso, 25 účastníkov, 24.09.-26.09.2025

Podujatie umožnilo stretnutie členov COST Akcie PLANETS, prevažne z pracovnej skupiny WG1 (experimentálny prístup) ale aj iných, s cieľom prezentovať aktuálne poznatky a diskutovať o úlohe laboratórnych experimentov a teórie pri štúdiu tvorby planetárnych diskov.

3.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2026 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

Summer School In Small Celestial Bodies in High Tatras 2026/Letná škola Malých telies Slnčnej sústavy vo Vysokých Tatrách 2026, Tatranská Lomnica, Slovensko, 20 účastníkov, 29.06.-03.07.2026, (Olena Shubina, , oshubina@astro.sk)

Hlavným cieľom letnej školy je oboznámiť postgraduálnych študentov a mladých vedcov so súčasným stavom výskumu malých telies v Slnčnej sústave. Počas školy si účastníci vypočujú prednášky o kométach, asteroidoch a kentauroch, ako aj o použití rôznych metód ich výskumu a o najnovších výsledkoch získaných pozemnými teleskopmi rôznych veľkostí a vesmírnymi misiami. Ďalším vhodným doplnkom školy sú plánované prednášky na tému „ako písať návrhy na granty a ako prezentovať svoje vedecké výsledky“.

3.1.3. Počet pracovníkov v programových a organizačných výboroch medzinárodných konferencií

Tabuľka 3a Programové a organizačné výbory medzinárodných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Adamčák Ján	0	1	0
Hambálek Lubomír	0	1	0
Kaňuchová Zuzana	0	0	1
Kováčová Martina	0	1	0
Shagatova Natalia	0	1	0
Shubina Olena	0	1	0
Spolu	0	5	1

3.2. Členstvo a funkcie v medzinárodných orgánoch

3.2.1. Členstvo a funkcie v medzinárodných vedeckých spoločnostiach, úniách a národných komitétach SR

RNDr. Ján Budaj, DrSc.

International Astronomical Union (funkcia: člen)

RNDr. Zoltán Garai, PhD.

European Astronomical Society (funkcia: člen)

International Astronomical Union (funkcia: člen)

Maďarská astronomická spoločnosť (funkcia: člen)

Verejný zbor Maďarskej akadémie vied (funkcia: člen)

Mgr. Peter Gömöry, PhD.

Consortium EAST – European Association for Solar Telescopes (funkcia: člen)

European Astronomical Society (EAS) (funkcia: člen)

International Astronomical Union (funkcia: člen)

RNDr. Mária Hajduková, PhD.

Astronomy & Astrophysics (funkcia: člen Riaditeľskej rady)

International Astronomical Union (funkcia: člen)

Mgr. Ľubomír Hambálek, PhD.

European Astronomical Society (EAS) (funkcia: člen)

International Astronomical Union (funkcia: národný koordinátor pre popularizáciu astronómie)

International Astronomical Union (funkcia: člen)

Mgr. Marek Husárik, PhD.

International Astronomical Union (funkcia: člen)

Mgr. Oleksandra Ivanova, PhD.

European Astronomical Society (EAS) (funkcia: člen)

International Astronomical Union (funkcia: člen)

Ukrainian Astronomical Society (funkcia: člen)

Mgr. Marián Jakubík, PhD.

American Astronomical Society (AAS) (funkcia: člen)

European Astronomical Society (EAS) (funkcia: člen)

International Astronomical Union (funkcia: člen)

Mgr. Zuzana Kaňuchová, PhD.

International Astronomical Union (funkcia: člen)

RNDr. Richard Komžík, CSc.

EAS - European Astronomical Society (funkcia: člen)
International Astronomical Union (IAU) (funkcia: člen)

RNDr. Martina Kováčová, PhD.

International Astronomical Union (funkcia: člen)

Mgr. Július Koza, PhD.

International Astronomical Union (funkcia: člen)
Joint Organization for Solar Observations - JOSO (funkcia: člen)

Mgr. Viktoriia Krushevska, PhD.

European Astronomical Society (funkcia: člen)
International Astronomical Union (funkcia: člen)
Ukrainian Astronomical Association (funkcia: člen)

RNDr. Aleš Kučera, CSc.

Consortium EAST – European Association for Solar Telescopes (funkcia: člen)
International Astronomical Union (funkcia: člen)
Joint Organization for Solar Observations - JOSO (funkcia: národný reprezentant Slovenska)

Mgr. Emil Kundra, PhD.

European Astronomical Society (EAS) (funkcia: člen)
International Astronomical Union (funkcia: člen)

RNDr. Luboš Neslušan, CSc.

International Astronomical Union (funkcia: člen)
International Meteor Organization (funkcia: člen)

RNDr. Theodor Pribulla, CSc.

International Astronomical Union (funkcia: člen)

RNDr. Vojtech Rušin, DrSc.

American Geophysical Union (funkcia: člen)
Česká astronomická společnost (funkcia: čestný člen)
European Astronomical Society (funkcia: člen)
International Astronomical Union (funkcia: člen pracovnej skupiny Solar Eclipses)
International Astronomical Union (funkcia: člen)

RNDr. Ján Rybák, CSc.

International Astronomical Union (funkcia: člen)

RNDr. Metod Saniga, DrSc.

American Mathematical Society / Mathematical Reviews (funkcia: reviewer (by invitation))
European Mathematical Society / Zentralblatt MATH (funkcia: reviewer (by invitation))
European Science Foundation (funkcia: reviewer - College of Expert Reviewers)
International Astronomical Union (funkcia: člen)
International Symmetry Association (funkcia: člen)

Mgr. Natalia Shagatova, PhD.

International Astronomical Union (funkcia: člen)

Msc. Leonid Shakun

International Astronomical Union (funkcia: člen)
Ukrainian Astronomical Association (funkcia: člen)

Mgr. Olena Shubina, PhD.

Europlanet Society (funkcia: člen (early-career member))
International Astronomical Union (funkcia: člen)

Mgr. Pavol Schwartz, PhD.

International Astronomical Union (funkcia: člen)

RNDr. Augustín Skopal, DrSc.

International Astronomical Union (funkcia: člen)

doc. RNDr. Ján Svoreň, DrSc.

International Astronomical Union (funkcia: člen)

Mgr. Martin Vaňko, PhD.

International Astronomical Union (funkcia: člen)

Mgr. Anhelina Voitko, PhD.

Europlanet Society (funkcia: člen (early-career member))

Msc. Aneta Barbara Wiśniewska, PhD.

EGU European Geosciences Union e.V. (funkcia: člen)
European Heliophysics Community (EHC) (funkcia: člen vedeckého organizačného výboru)

3.3. Účast' expertov na hodnotení medzinárodných projektov (EÚ RP, ESF a iných)

Tabuľka 3b Experti hodnotiaci medzinárodné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Ivanova Oleksandra	Projekt základného vedeckého výskumu, aplikovaný vedecký výskum, vedecký a technický (experimentálny) vývoj. Sekcia Vedeckej rady Ministerstva školstva a vedy Ukrajiny	1
Pribulla Theodor	Consolidator grants, ERC	25

3.4. Najvýznamnejšie prínosy MVTs ústavu vyplývajúce z mobility a riešenia medzinárodných projektov a iné informácie k medzinárodnej vedeckej spolupráci

V spolupráci s Astronomickým ústavom AV ČR v Ondřejove prevádzkujeme na Slovensku 4 stanice Európskej bolidovej siete (celkove 6 kamier, z toho 2 spektrálne). Získané výsledky sú spracovávané a publikované v spolupráci obidvoch inštitúcií (za AsÚ SAV prevádzku zabezpečujú D. Tomko, J. Svoreň a J. Ambróz).

S. Ďurišová vykonávala analýzu dát prachových častíc z meraní CDA prístroja na sonde Cassini a následne vytvárala programy na simuláciu trajektórie častíc v rámci programu študijného pobytu na základe udeleného štipendia na mobilitu z Národného štipendijného programu Slovenskej republiky na podporu mobilit študentov, doktorandov, vysokoškolských učiteľov, výskumníkov a umeleckých pracovníkov (SAIA, n. o.) na pracovisku Freie Universität Berlin.

Prostredníctvom projektu Open-Mob-2024-09 bol položený základ pre dlhodobú spoluprácu Astronomického ústavu SAV, v. v. i. s Vroclavskou univerzitou v oblasti výskumu slnečných protuberancií a erupcií (J. Koza, Z. Vashalomidze, A. Wiśniewska).

J. Rybák s pracovníkmi skupiny Observatória Lomnický štít OFS AsÚ pokračovali v prípravách projektu prístroja SLED v rámci medzinárodného neformálneho konzorcia s kolegami z Francúzska, Poľska, Írska a Veľkej Británie. Prístroj SLED pre pozorovanie vysokofrekvenčných oscilácií plazmy v slnečnej koróne by mal byť prevádzkovaný AsÚ SAV na Observatóriu Lomnický štít.

A. B. Wiśniewska a J. Rybák pokračovali v medzinárodnej spolupráci s tímom vedcov, ktorí prevádzkujú pozemný teleskop UCoMP, formou online stretnutí „UCOMP Informal Lunch Meetings“. Primárnou výhodou je udržiavanie výmeny informácií prostredníctvom týchto dvojtyždenných online stretnutí s cieľom zlepšiť fungovanie prístroja CoMP-S na Observatóriu Lomnický štít a spolupracovať pri riešení problémov súvisiacich so získavaním a analýzou údajov.

A. B. Wiśniewska nadviazala medzinárodnú spoluprácu so skupinou vedcov z Krakova a Vroclavy, ako aj s kolegami z USA (Kalifornia, Washington DC). Tieto kontakty umožnia priekopnícku kombináciu pozemných pozorovaní, ako sú tie z CoMP-S, s meraniami in situ vykonávanými teleskopmi a vesmírnymi misiami, ako je Parker Solar Probe.

A. Maliuk počas pobytu na Astronomickom ústave AV ČR v Ondřejove v rámci medziakademickej dohody CAS-SAS (projekt CAS-SAS-2024-01) vykonal spoločnú analýzu spektroskopických dát sústav TIC349480752 a QT Peg získaných prístrojom PlatoSpec v Čile. Ďalej sa venoval príprave spoločnej publikácie s pracovníkmi partnerskej inštitúcie a prezentoval svoje výsledky formou prednášky na seminári.

O. Ivanova spolu so širokým medzinárodným tímom vykonali spektrálny a fotometrický monitoring medzihviezdnej kométy 3I/ATLAS počas prvého mesiaca po jej objavení pomocou viacerých medzinárodných ďalekohľadov (SALT, NOT, FTN/FTS, Joan Oró, Lesedi, Skalnaté Pleso). Analýzy týchto dát ukázali, že v spektre pri heliocentrickej vzdialenosti kométy ~ 3.6 AU neboli detegované žiadne emisie; sklon kontinua sa menil od 21%/1000 Å v modrej oblasti po 3%/1000 Å v blízkej infračervenej oblasti. Vypočítaná rotácia jadra 16,8 hod poskytuje tvar jadra kompatibilný s elipsoidom s pomerom polosi $b/a = 0,76\text{--}0,83$. Prachová produkcia bola vypočítaná v intervale 0,3 – 4,2 kg/s.

Prehľad údajov o medzinárodnej mobilite pracovníkov organizácie je uvedený v Prílohe A-5.

Prehľad a údaje o medzinárodných projektoch sú uvedené v kapitole 2 a Prílohe A-2.

4. Aplikácia výsledkov výskumu v praxi

Vedecká činnosť na Astronomickom ústave SAV, v. v. i. je zameraná výlučne na základný výskum, ktorý nemá priame aplikačné výstupy v praxi.

5. Doktorandské štúdium a pedagogická činnosť

5.1. Údaje o doktorandskom štúdiu

Tabuľka 5a Počet doktorandov v roku 2025

Forma	Počet k 31.12.2025				Počet doktorandov po doktorandskej skúške		Počet ukončených doktorantúr v r. 2025					
							Ukončenie z dôvodov					
	celkový počet		z toho novoprijatí				ukončenie úspešnou obhajobou		predčasné ukončenie		neúspešné ukončenie	
	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž
Denná zo zdrojov SAV	3	3	2	1	1	2	0	1	0	1	0	0
Denná z iných zdrojov	0	0	0	0	0	0	0	0	0	0	0	0
Externá	0	0	0	0	0	0	0	0	0	0	0	0
Spolu	3	3	2	1	1	2	0	1	0	1	0	0
Z toho zahraničných	3	2	2	1	1	1	0	1	0	1	0	0
Súhrn	6		3		3		1		1		0	

Uvádzajte len doktorandov organizácie ako externej vzdelávacej inštitúcie.

Riadok „Spolu“ je súčtom troch riadkov nad ním. Každá bunka v riadku „Súhrn“ vyjadruje celkový počet doktorandov (mužov a žien spolu), čiže je súčtom príslušných dvoch buniek z riadku „Spolu“. V stĺpci „Počet doktorandov po doktorandskej skúške“ sa uvádza počet doktorandov, ktorí počas roku 2025 boli aspoň 1 deň doktorandami po doktorandskej skúške. Sú číselne zahrnutí aj v predchádzajúcich stĺpcoch.

Pod predčasným ukončením rozumieme ukončenie bez obhajoby dizertačnej práce pričom doktorand neabsolvoval celú štandardnú dĺžku štúdia. Pod neúspešným ukončením rozumieme ukončenie bez úspešnej obhajoby dizertačnej práce, pričom študent absolvoval celú štandardnú dĺžku štúdia.

5.2. Zmena formy doktorandského štúdia

Tabuľka 5b Počty preradení z dennej formy na externú a z externej na dennú

Pôvodná forma	Denná z prostriedkov SAV	Denná z prostriedkov SAV	Denná z iných zdrojov	Denná z iných zdrojov	Externá	Externá
Nová forma	Denná z iných zdrojov	Externá	Denná z prostriedkov SAV	Externá	Denná z prostriedkov SAV	Denná z iných zdrojov
Počet	0	0	0	0	0	0

5.3. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou

Tabuľka 5c Menný zoznam ukončených doktorandov v roku 2025 úspešnou obhajobou

Meno doktoranda	Forma DŠ	Mesiac, rok nástupu na DŠ	Mesiac, rok obhajoby	Číslo a názov študijného odboru	Meno a organizácia školiteľa	Fakulta udeľujúca vedeckú hodnotu
Mgr. Anhelina Voitko	interné štúdium hraené z prostriedkov SAV	9 / 2021	8 / 2025	1160 fyzika	Mgr. Oleksandra Ivanova PhD., Astronomický ústav SAV, v. v. i.	Fakulta matematiky, fyziky a informatiky UK

5.4. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou v nadštandardnej dĺžke štúdia

Tabuľka 5d Menný zoznam ukončených doktorandov v roku 2025 úspešnou obhajobou v nadštandardnej dĺžke štúdia

Meno doktoranda	Forma DŠ	Mesiace, rok nástupu na DŠ	Mesiace, rok obhajoby	Číslo a názov študijného odboru	Meno a organizácia školiteľa	Fakulta udeľujúca vedeckú hodnotu

5.5. Uplatnenie absolventov doktorandského štúdia

Tabuľka 5e Prehľad uplatnenia absolventov doktorandského štúdia

Počet absolventov PhD. štúdia v roku 2025 (obhajoba leto 2025)	z toho koľkí sa zamestnali vo výskume (SAV, univerzity, rezortné výskumné ústavy)	z toho koľkí sa zamestnali v praxi mimo výskum, kde využívajú svoju kvalifikáciu	z toho koľkí sa zamestnali v praxi, kde nevyužívajú svoju kvalifikáciu	z toho koľkí boli nejaký čas nezamestnaní
1	1	0	0	0

Číslo v prvom stĺpci musí byť súčtom čísel v stĺpcoch 2-4, pokiaľ je známe uplatnenie dočasne nezamestnaného absolventa/ky a bude zahrnutý do stĺpcov 2-4. Ak jeho/jej uplatnenie nie je známe, musí byť číslo v stĺpci 1 súčtom čísel v stĺpcoch 2-5

Zoznam interných a externých doktorandov je uvedený v prílohe A-1.

5.6. Medzinárodné doktorandské štúdium

Tabuľka 5f Počet študentov v medzinárodných programoch doktorandského štúdia a počet zahraničných doktorandov

Cotutelle	Co-direction	Iné	Zahranční doktorandi štátne občianstvo/počet
0	0	0	UKR/3, GEO/1, IND/1, PAK/1

Zahranční doktorandi sú doktorandi v dennej alebo externej forme štúdia, ktorí sú občanmi iných krajín.

Doktorandi školení v rámci Cotutelle alebo Co-direction sa do posledného stĺpca nezapočítavajú.

5.7. Zoznam študijných odborov, na ktoré má ústav uzatvorenú rámcovú dohodu, s uvedením VŠ

Tabuľka 5g Zoznam študijných odborov, na ktoré má ústav uzatvorenú rámcovú dohodu, s uvedením univerzity/vysokej školy a fakulty, kde sa doktorandský študijný program uskutočňuje

Názov študijného odboru (ŠO)	Číslo ŠO	Názov doktorandského študijného programu	Doktorandské štúdium uskutočňované na (univerzita/vysoká škola a fakulta)
fyzika	1160	astronómia a astrofyzika	Fakulta matematiky, fyziky a informatiky UK

Názov a číslo študijného odboru vyplňte/vyberte podľa aktuálne platného zoznamu študijných odborov

<https://www.portalvs.sk/sk/studijne-odbory?from=menu1>. Názov doktorandského študijného programu v stĺpci 3 je potrebné vložiť ako voľný text.

Tabuľka 5h Účasť na pedagogickom procese

Menný prehľad pracovníkov, ktorí boli menovaní do odborových komisií pre doktorandské štúdium	Menný prehľad pracovníkov, ktorí pôsobili ako členovia vedeckých rád univerzít, správnych rád univerzít a fakúlt	Menný prehľad pracovníkov, ktorí získali vyššiu vedeckú, pedagogickú hodnotu alebo vyšší kvalifikačný stupeň
RNDr. Ján Budaj, DrSc. (fyzika, Masarykova Univerzita, ČR)		Mgr. Anhelina Voitko, PhD. (PhD., Fakulta matematiky, fyziky a informatiky UK)
Mgr. Peter Gömöry, PhD. (fyzika, FMFI UK)		
Mgr. Marián Jakubík, PhD. (fyzika, FMFI UK)		
RNDr. Augustín Skopal, DrSc. (fyzika, FMFI UK)		
Mgr. Martin Vaňko, PhD. (fyzika, PF UPJŠ)		

5.8. Údaje o pedagogickej činnosti

Tabuľka 5i Prednášky a cvičenia vedené v roku 2025

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	8	0	1	0
Celkový počet hodín v r. 2025	311	0	146	0

Prehľad prednášateľov predmetov a vedúcich cvičení, s uvedením názvu predmetu, úväzku, katedry, fakulty, univerzity/vysokej školy je uvedený v prílohe A-4.

Tabuľka 5j Aktivity pracovníkov na VŠ

1.	Počet pracovníkov, ktorí pôsobili ako vedúci alebo konzultanti diplomových a bakalárskych prác	0
2.	Počet vedených alebo konzultovaných diplomových a bakalárskych prác	0
3.	Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)	6
4.	Počet školených doktorandov (aj pre iné inštitúcie)	7
5.	Počet oponovaných dizertačných a habilitačných prác	4
6.	Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce	4
7.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác	0
8.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác	6
9.	Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti v inauguračnom alebo habilitačnom konaní na vysokých školách	2

5.9. Iné dôležité informácie k pedagogickej činnosti

P. Gömöry pôsobil ako člen komisie pre magisterskú štátnu skúšku z odboru fyzika (študijný program fyzika) a komisie pre obhajobu diplomovej práce na Prírodovedeckej fakulte UPJŠ v Košiciach: 28. august 2025 – A. Lashkova.

Garantom doktorandského študijného programu Astronómia a astrofyzika v študijnom odbore 13. Fyzika je na Astronomickom ústave SAV, v. v. i.: A. Skopal (do 13.02.2025), P. Gömöry (od 13.02.2025).

Pracovníci ústavu pôsobili ako členovia skúšobnej komisie prijímacích pohovorov na doktorandské štúdium na AsÚ SAV, ktoré sa konali dňa 17. júna 2025, predseda: P. Gömöry, členovia: J. Budaj, Ľ. Hambálek, O. Ivanova, M. Jakubík, E. Kundra, A. Skopal a M. Vaňko.

Pracovníci ústavu pôsobili ako členovia skúšobnej komisie pre dizertačnú skúšku Mgr. Dmitra Orikhovskiyi, ktorá sa konala dňa 27. mája 2025 na AsÚ SAV v Tatranskej Lomnici, predseda: P. Gömöry, členovia: M. Jakubík, A. Skopal.

M. Vaňko bol oponentom písomnej práce dizertačnej skúšky Mgr. M. Kamenca, ktorá sa konala na Prírodovedeckej fakulte UPJŠ v Košiciach.

A. Skopal pôsobil v roku 2025 ako člen PhD komisie pre študenta Nirupam Roy na New Mexico of Mining and Technology (pôsobenie v komisii je ekvivalentom k pozícii konzultanta dizertačnej práce; komisia funguje počas celého štúdia).

Poberatelia príspevku z Podporného fondu Štefana Schwarza na vytváranie postdoktorandských miest v SAV za rok 2025: Sergo Lomineishvili, PhD., Andrii Maliuk, PhD.

Aktivity Astronomického ústavu SAV, v. v. i. zamerané na zintenzívnenie doktorandského štúdia:

- program letnej stáže pre študentov z univerzít na observatóriu na Lomnickom štíte 2025: v období jún-október 2025 boli na observatóriu na Lomnickom štíte zorganizované štyri päťdňové kurzy prednostne venované študentom magisterského stupňa vysokoškolského štúdia, ktorí by mohli v budúcnosti zvažovať PhD štúdium na AsÚ SAV. Kurzov sa zúčastnilo 14 študentov zo Slovenska, Českej Republiky, Poľska, Maďarska, Veľkej Británie a Gruzínska.
(https://www.astro.sk/~choc/lso_summer_internship_program/2025/lso_summer_internship_program_2025.html).
- vedenie pozorovaní na observatóriu Skalnaté Pleso v rámci stáže ERASMUS+ doktoranda Roberta Jarosa z Instytut Astronomii, Uniwersytet Mikołaja Kopernika, Toruń, Poľsko.

6. Zmluvná spolupráca s univerzitami/vysokými školami a inými subjektmi vedy a výskumu

Pozn.: Uvádzajte formy spolupráce a aktivity, ktoré nie sú uvedené v kapitolách 2, 3, 4, 5.

6.1. Spoločné pracoviská organizácie

6.1.1. Spolupráca s univerzitami/VŠ (fakultami)

Názov univerzity/vysokej školy a fakulty: Fakulta matematiky, fyziky a informatiky UK

Oblasť spolupráce: astronómia a astrofyzika

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 1955

Zhodnotenie: spoločne organizované doktorandské štúdium, členstvo v štátnicových komisiách, výuka - prednášky, zastúpenie FMFI UK v redakčnej rade nami vydávaného časopisu, vedecká činnosť

Názov univerzity/vysokej školy a fakulty: Federal University of Technology – Parana, Brazília

Oblasť spolupráce: astronómia a astrofyzika

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2024

Zhodnotenie: vedecká a pedagogická činnosť, výmena študentov

Názov univerzity/vysokej školy a fakulty: Odessa I. I. Mechnikov National University, Ukrajina

Oblasť spolupráce: astronómia a astrofyzika

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2021

Zhodnotenie: spoločná vedecká práca, podiel na výuke študentov

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UPJŠ

Oblasť spolupráce: astronómia a astrofyzika

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 1997

Zhodnotenie: vedecká a pedagogická činnosť, členstvo v štátnicových komisiách.

Názov univerzity/vysokej školy a fakulty: Taras Shevchenko National University, Kyjev, Ukrajina

Oblasť spolupráce: astronómia a astrofyzika

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2017

Zhodnotenie: vedecká a pedagogická činnosť, výmena študentov

Názov univerzity/vysokej školy a fakulty: Université de Technologie Belfort-Montbéliard, Belfort, Francúzsko

Oblasť spolupráce: kvantová teória informácie, teoretická fyzika a aplikovaná matematika

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2018

Zhodnotenie: vedecká a pedagogická činnosť

Pozn.: uvádzajte len tie spolupráce, na ktoré má organizácia zmluvu resp. memorandum o zriadení spoločného pracoviska, resp. o vzájomnej spolupráci v konkrétnej oblasti výskumu

6.1.2. Spoločné pracoviská s inými organizáciami SAV

Pozn.: uvádzajte len tie spolupráce, na ktoré má organizácia zmluvu resp. memorandum o zriadení spoločného pracoviska, resp. o vzájomnej spolupráci v konkrétnej oblasti výskumu

6.2. Spoločné pracoviská organizácie s inými inštitúciami mimo SAV a VŠ

Názov inštitúcie: Institute of Astronomy of V. N. Karazin Kharkiv National University, Ministry of Education and Science, Ukrajina

Oblasť spolupráce: astronómia a astrofyzika

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2024

Zhodnotenie: vedecká a pedagogická činnosť

Názov inštitúcie: Institute of Astrophysics of the Academy of Sciences of the Republic of Tajikistan

Oblasť spolupráce: astronómia a astrofyzika

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2018

Zhodnotenie: vedecká spolupráca

Pozn.: uvádzajte len tie spolupráce, na ktoré má organizácia zmluvu resp. memorandum o zriadení spoločného pracoviska, resp. o vzájomnej spolupráci v konkrétnej oblasti výskumu

6.3. Spoločné projekty s univerzitami a ostatnými inštitúciami mimo SAV

Názov projektu: Od interagujúcich hviezd k exoplanétam

Agentúra: APVV

číslo projektu: APVV-20-0148

Spolupracujúce inštitúcie: PF UPJŠ v Košiciach, Vihorlatská hvezdáreň Humenné

Koordinátor projektu: RNDr. Theodor Pribulla, CSc.

Začiatok spolupráce: 2021

Koniec spolupráce: 2025

Zhodnotenie:

Názov projektu: Odhalenie povahy špeciálnych hviezdnych sústav a exoplanét

Agentúra: APVV

číslo projektu: APVV-24-0160

Spolupracujúce inštitúcie: UPJŠ v Košiciach, Vihorlatská hvezdáreň Humenné

Koordinátor projektu: RNDr. Theodor Pribulla, CSc.

Začiatok spolupráce: 2025

Koniec spolupráce: 2029

Zhodnotenie:

Pozn.: uviesť konkrétne spoločné aj bilaterálne projekty na základe platnej zmluvy o spolupráci

6.4. Iné typy spoločných aktivít s inštitúciami mimo SAV

7. Vedecko-organizačné a popularizačné aktivity

7.1. Vedecko-popularizačná činnosť

Tabuľka 7a Súhrnné počty vedecko-popularizačných činností organizácie SAV

Typ	Počet	Typ	Počet	Typ	Počet
prednášky/besedy	79	tlač	62	TV	34
rozhlas	8	internet	235	exkurzie	60
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	0
iné	3				

7.2. Vedecko-organizačná činnosť

Tabuľka 7b Vedecko-organizačná činnosť

Názov podujatia	Domáca/ medzinárodná	Miesto	Dátum konania	Počet účastníkov
Tatranský astronomický summit 2025	medzinárodná	Astronomický ústav SAV, v. v. i., Tatranská Lomnica	22.9.-26.9.2025	41
COST 22133 WG1 Meeting „Build it up: laboratory perspectives on planet formation”	medzinárodná	Hotel Panoráma, Štrbské Pleso	24.9.-26.9.2025	25

7.3. Účasť na výstavách

Názov výstavy: Cesta za čiernym Slnkom

Miesto konania: Múzeum a Kultúrne centrum južného Zemplína, Trebišov

Dátum: 6.5.2025

Zhodnotenie účasti: Autor výstavy: Rušin, V., trvanie výstavy: od 6.5.2025 do 2.6.2025. Výstava 20 veľkoplošných obrazov.

7.4. Účasť v programových a organizačných výboroch národných konferencií

Tabuľka 7c Programové a organizačné výbory národných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Hambálek Ľubomír	0	1	0
Shubina Olena	0	1	0
Spolu	0	2	0

7.5. Členstvo v redakčných radách časopisov

RNDr. Zoltán Garai, PhD.

Contributions of the Astronomical Observatory Skalnaté Pleso (funkcia: editor)

Discover Space (funkcia: člen)

Mgr. Marek Husárik, PhD.

Pokroky matematiky, fyziky a astronómie (funkcia: člen)

Mgr. Oleksandra Ivanova, PhD.

Contributions of the Astronomical Observatory Skalnaté Pleso (funkcia: editor)

RNDr. Richard Komžík, CSc.

Contributions of the Astronomical Observatory Skalnaté Pleso (funkcia: výkonný redaktor)

Mgr. Július Koza, PhD.

Contributions of the Astronomical Observatory Skalnaté Pleso (funkcia: editor)

RNDr. Aleš Kučera, CSc.

Contributions of the Astronomical Observatory Skalnaté Pleso (funkcia: editor)

Frontiers in Astronomy and Space Sciences (funkcia: člen)

RNDr. Luboš Neslušan, CSc.

Contributions of the Astronomical Observatory Skalnaté Pleso (funkcia: editor)

RNDr. Theodor Pribulla, CSc.

Contributions of the Astronomical Observatory Skalnaté Pleso (funkcia: editor)

Kozmos (funkcia: člen)

The Open European Journal on Variable Stars (funkcia: člen)

RNDr. Ján Rybák, CSc.

Kozmos (funkcia: člen)

Mgr. Olena Shubina, PhD.

Advances in Astronomy and Space Physics (funkcia: technical editor)

RNDr. Augustín Skopal, DrSc.

Contributions of the Astronomical Observatory Skalnaté Pleso (funkcia: vedecký redaktor)

doc. RNDr. Ján Svoreň, DrSc.

Kozmos (funkcia: predseda redakčnej rady)

7.6. Činnosť v domácich vedeckých spoločnostiach

RNDr. Ján Budaj, DrSc.

Slovenská astronomická spoločnosť (funkcia: člen)

RNDr. Zoltán Garai, PhD.

Slovenská astronomická spoločnosť (funkcia: člen)

Mgr. Peter Gömöry, PhD.

Slovenská astronomická spoločnosť (funkcia: člen)

RNDr. Mária Hajduková, PhD.

Slovenská astronomická spoločnosť (funkcia: člen)

Mgr. Ľubomír Hambálek, PhD.

Národný komitét IAU (funkcia: tajomník)

Slovenská astronomická spoločnosť (funkcia: člen)

Slovenská astronomická spoločnosť (funkcia: vedecký tajomník)

Mgr. Marián Jakubík, PhD.

Slovenská astronomická spoločnosť pri SAV (funkcia: člen)

Mgr. Zuzana Kaňuchová, PhD.

Národný komitét IAU (funkcia: tajomník)

Národný komitét IAU (funkcia: predseda)

Národný komitét organizácie COSPAR (funkcia: člen)

RNDr. Richard Komžík, CSc.

Slovenská astronomická spoločnosť (funkcia: člen)

Mgr. Július Koza, PhD.

Národný komitét IAU (funkcia: člen)

Slovenská astronomická spoločnosť (funkcia: predseda Odbočky SAS pri SAV)

RNDr. Aleš Kučera, CSc.

Slovenská astronomická spoločnosť (funkcia: člen)

Mgr. Emil Kundra, PhD.

Slovenská astronomická spoločnosť (funkcia: člen)

Slovenská astronomická spoločnosť (funkcia: hospodár)

RNDr. Luboš Neslušan, CSc.

Slovenská astronomická spoločnosť (funkcia: člen)

RNDr. Theodor Pribulla, CSc.

Slovenská astronomická spoločnosť (funkcia: člen)

RNDr. Vojtech Rušin, DrSc.

Slovenská astronomická spoločnosť pri SAV (funkcia: čestný člen)
Slovenská fyzikálna spoločnosť pri SAV (funkcia: čestný člen)
Spoločnosť M. R. Štefánika (funkcia: čestný člen)

RNDr. Ján Rybák, CSc.

Národný komitét IAU (funkcia: člen)
Národný komitét organizácie COSPAR (funkcia: člen)
Národný komitét SCOSTEP (funkcia: člen)

RNDr. Metod Saniga, DrSc.

Slovenská astronomická spoločnosť (funkcia: člen)

RNDr. Augustín Skopal, DrSc.

Slovenská astronomická spoločnosť (funkcia: člen)

doc. RNDr. Ján Svoreň, DrSc.

Slovenská astronomická spoločnosť (funkcia: člen)

Mgr. Martin Vaňko, PhD.

Národný komitét IAU (funkcia: predseda)
Národný komitét IAU (funkcia: člen)
Slovenská akademická informačná agentúra, SAIA n. o. (funkcia: člen)
Slovenská astronomická spoločnosť (funkcia: člen)

7.7. Iné dôležité informácie o vedecko-organizačných a popularizačných aktivitách

Astronomický ústav SAV, v. v. i. prevádzkuje na svojom webovom sídle (<https://www.astro.sk>) službu verejnosti s názvom "Máte otázku na experta?". Návštevník stránky môže pomocou jednoduchého formulára kontaktovať expertov (pracovníkov ústavu) v 20 rôznych tematických oblastiach týkajúcich sa astronómie a astrofyziky.

Pracovníci Astronomického ústavu SAV, v. v. i. na Observatóriu Lomnický štít vykonali pre hostí z apartmánov firmy Tatra Mountain Resorts na Lomnickom štíte 88 krát exkurziu v kupole observatória s krátkym výkladom o práci Observatória (celkovo 360 návštevníkov).

Astronomický ústav SAV, v. v. i. sa zapojil do každoročnej výzvy Medzinárodnej astronomickej únie pri príležitosti Medzinárodného dňa žien a dievčat vo vede (11. februára 2025) a Medzinárodného dňa žien (8.3.2025) na zorganizovanie podujatia v rámci globálnej schémy „Ženy a dievčatá v astronómii“. Tento rok sa iniciatíva týkala konkrétne žien v slnečnej fyzike. Ústav pri tejto príležitosti pripravil akciu „Opýtaj sa astronómky Anety Wiśniewskej!“. Verejnosť mohla A. Wiśniewskej poslať otázky v slovenskom aj anglickom jazyku prostredníctvom emailu alebo komentáru na Facebook-u. Odpovede boli zverejnené vo forme rozhovoru na webovej stránke ústavu aj na Facebook-u.

Astronomický ústav SAV, v. v. i. sa prostredníctvom svojich vedeckých stánkov zúčastnil na obidvoch celoakademických popularizačných akciách - "Zaži vedu so SAV", 15.-16.5.2025 pri Dolnej bráne v Košiciach a "My sme SAV", 13.-14.6.2024 na Hviezdoslavovom námestí v Bratislave.

Vedecký stánok Astronomického ústavu SAV, v. v. i. bol tiež súčasťou najväčšieho vedeckého festivalu na Slovensku - Európska noc vedy, ktorý sa konal 26. septembra 2025 vo viacerých mestách na Slovensku. Náš stánok bol súčasťou festivalu v OC Max v Poprade.

Astronomický ústav SAV, v. v. i. pripravil aj v roku 2025 program počas podujatia Týždeň vedy a techniky na Slovensku, ktorý sa uskutočnil od 10.-14.11.2025 v areáli v Starej Lesnej. V rámci programu si návštevníci mohli pozrieť video zábery zo Slnka vo vysokom rozlíšení, mohli sa dozvedieť niečo o kométach alebo vziať do rúk reprodukcii úlomku meteoritu Košice. Veľkým lákadlom boli aj večerné pozorovania v pavilóne G2. Tejto úspešnej akcie sa zúčastnilo 318 návštevníkov.

8. Aktivity pre Národnú radu SR, vládu SR, ústredné orgány štátnej správy SR a iné inštitúcie

8.1. Členstvo v poradných zboroch vlády SR, Národnej rady SR, ministerstiev SR, orgánoch EÚ, EP, NATO a pod.

Tabuľka 8a Členstvo v poradných zboroch Národnej rady SR, vlády SR, ministerstiev SR, orgánoch EÚ, EP, NATO a pod.

Meno pracovníka	Názov orgánu	Funkcia
Ing. Jaroslav Ambróz	Národný tím technických expertov na posudzovanie tovarov a technológií dvojakého použitia a vojenského materiálu pri ministerstve hospodárstva	člen
Mgr. Peter Gömöry, PhD.	Ministerstvo školstva, výskumu, vývoja a mládeže SR, sekcia výskumu a vývoja	expert Slovenskej republiky v Rade vládnych reprezentantov pre projekt EST
	Ministerstvo obrany SR, Odbor plánovania investícií a financovania projektov MO SR	člen poradného výboru člena správnej rady Severoatlantického akcelérátora pre inovácie v obrane - DIANA
RNDr. Mária Hajduková, PhD.	Ministerstvo školstva, výskumu, vývoja a mládeže SR, Oddelenie vesmírnej politiky – vesmírna kancelária, Sekcia vedy a techniky	delegátka SR v Európskej vesmírnej agentúre (ESA)
Mgr. Marián Jakubík, PhD.	Ministerstvo školstva, výskumu, vývoja a mládeže SR, Oddelenie vesmírnej politiky – vesmírna kancelária, Sekcia vedy a techniky	člen; agenda - Problematika vesmírnych zdrojov v rámci Výboru OSN pre mierové využívanie vesmíru COPUOS
RNDr. Richard Komžík, CSc.	Riadiaci výbor národného projektu „Slovenská gridová infraštruktúra SlovakGrid“	člen
	Združenie SANET – Slovenská akademická dátová sieť	predstaviteľ riadneho člena - AsÚ
	CSIRT SK	člen

8.2. Expertízna činnosť a iné služby pre štátnu správu a samosprávu

Názov expertízy: preklad a definície odborných termínov

Adresát expertízy: Európska komisia, generálne riaditeľstvo pre preklad

Spracoval: Mgr. Ľubomír Hambálek, PhD.

Stručný opis: Vypracovanie expertného prekladu (zadanie T.3-AITE-SK-23) 208 termínov v oblasti využitia vesmírnych zdrojov a vesmírnej ťažby z anglického do slovenského jazyka, vrátane definícií, kontextov, zdrojov a kódov spoľahlivosti a následné vloženie do jednotného terminologického systému IATE.

Názov expertízy: Výpočet časov východov a západov Slnka pre slovenské letiská

Adresát expertízy: Slovenský hydrometeorologický ústav

Spracoval: Mgr. Marián Jakubík, PhD.

Stručný opis: AsÚ poskytol SHMÚ presné časy východov a západov Slnka pre vybrané letiská na Slovensku pre každý kalendárny deň roku 2025.

Názov expertízy: Správa o predpokladanom – budúcom východe Slnka (čase svitania)

Adresát expertízy: Odbor kriminálnej polície OR PZ v Rožňave

Spracoval: Mgr. Marián Jakubík, PhD.

Stručný opis: Na základe žiadosti vyšetrovateľa I. oddelenia vyšetrovania Odboru kriminálnej polície Okresného riaditeľstva Policajného zboru v Rožňave bola vyhotovená správa, v ktorej sme uviedli informácie o predpokladanom – budúcom východe Slnka (čas svitania) na mesiac júl, resp. august 2025 pre dané miesto definované GPS súradnicami.

Názov expertízy: Posudzovanie nálezov „meteoritov“ a záznamov letov zvláštnych telies a úkazov v atmosfére

Adresát expertízy: verejnosť

Spracoval: doc. RNDr. Ján Svoreň, DrSc.

Stručný opis: Expertízna činnosť pre verejnosť – posudzovanie nálezov „meteoritov“ (15) a záznamov letov zvláštnych telies a úkazov v atmosfére (11) – v roku 2025 celkovo 26 prípadov spoločne s M. Husárikom a D. Tomkom.

8.3. Členstvo v radách štátnych programov a podprogramov ŠPVV a ŠO

Tabuľka 8b Členstvo v radách štátnych programov a podprogramov ŠPVV a ŠO

Meno pracovníka	Názov orgánu	Funkcia

8.4. Prehľad aktuálnych spoločenských problémov, ktoré riešilo pracovisko v spolupráci s Kanceláriou prezidenta SR, s vládnyimi a parlamentnými orgánmi alebo pre ich potrebu

9. Aktivity v orgánoch SAV

9.1. Členstvo vo Výbore Snemu SAV

Mgr. Marián Jakubík, PhD.

- člen

9.2. Členstvo v Predsedníctve SAV a vo Vedeckej rade SAV

9.3. Členstvo v komisiách SAV

Mgr. Peter Gömöry, PhD.

- Komisia pre hodnotenie grantov doktorandov SAV (člen)
- Komisia SAV pre hodnotenie vedy (člen)
- Komisia SAV pre informačné a komunikačné technológie (člen)
- Komisia SAV pre vyhodnocovanie medzinárodných projektov (člen)

RNDr. Richard Komžík, CSc.

- Komisia SAV pre informačné a komunikačné technológie (člen)

RNDr. Aleš Kučera, CSc.

- Etická komisia SAV (člen)
- Komisia SAV pre médiá, komunikáciu a program Otvorená akadémia (člen)

9.4. Členstvo v orgánoch VEGA

RNDr. Ján Budaj, DrSc.

- Komisia VEGA č.2 pre vedy o Zemi a vesmíre, environmentálne vedy (aj zemské zdroje) (člen)

Mgr. Oleksandra Ivanova, PhD.

- Komisia VEGA č.2 pre vedy o Zemi a vesmíre, environmentálne vedy (aj zemské zdroje) (člen)

RNDr. Ľuboš Neslušan, CSc.

- Komisia VEGA č.2 pre vedy o Zemi a vesmíre, environmentálne vedy (aj zemské zdroje) (člen)

RNDr. Ján Rybák, CSc.

- Komisia VEGA č.2 pre vedy o Zemi a vesmíre, environmentálne vedy (aj zemské zdroje) (člen)

10. Starostlivosť o ľudské zdroje, rodovú rovnosť, pracovné a sociálne podmienky zamestnancov a uplatňovanie ich práv

10.1. Uplatňovanie princípov stratégie ľudských zdrojov HRS4R

Astronomický ústav SAV, v. v. i., patrí medzi ústavy SAV participujúce na procese implementácie stratégie HRS4R (Human Resources Strategy for Researchers), čím sa zaviazal realizovať a dodržiavať princípy obsiahnuté v Európskej charte pre výskumníkov a Kódexu náboru výskumníkov. Ústav spolupracuje s Pracovnou skupinou HRS4R SAV s cieľom postupného naplňovania krokov revidovaného Akčného plánu HRS4R SAV na roky 2025-2028.

Ústav prijal jednotnú metodiku vypracovanú v dokumente Zásady náboru a výberu zamestnancov vo verejnej výskumnej inštitúcii Slovenskej akadémie vied, ktorý schválilo Predsedníctvo SAV dňa 12.3.2025. Prijatie tejto stratégie umožní ústavu zvýšiť transparentnosť a efektívnosť v procese náboru zamestnancov.

V roku 2025 bol na ústave formalizovaný postup pre podanie etického podnetu prostredníctvom vydania interného predpisu č. 4/2025. Predpis upravuje postupy pre nahlasovanie a riešenie prípadov porušovania Etického kódexu SAV, ktorý vyjadruje etické zásady výskumu a vývoja. Astronomický ústav zabezpečil, aby sa vedeckí pracovníci a študenti oboznámili s novým Etickým kódexom SAV, ktorý bol schválený uznesením Predsedníctva SAV dňa 14. 8. 2025.

S cieľom zlepšiť pracovné podmienky pre výskum mladých zamestnancov a študentov sa na ústave sformovala Rada mladých, ktorá zabezpečuje efektívnu komunikáciu medzi jej členmi a vedením ústavu. Jej predsedkyňa, dr. Martina Kováčová, je prizvaná na každé stretnutie Ústavnej rady.

Vzhľadom na nízke počty uchádzačov a najmä uchádzačiek o doktorandské štúdium má Astronomický ústav SAV, v. v. i., ambíciu zvyšovať povedomie mladej generácie o vede a astronómii. Okrem vysokého počtu exkurzií, popularizačných akcií či príspevkov v médiách a na sociálnych sieťach sa ústav opätovne zapojil do výzvy Medzinárodnej astronomickej únie zorganizovať podujatie pri príležitosti Medzinárodného dňa žien a dievčat vo vede (11. februára 2025) prostredníctvom online výzvy „Opýtaj sa astronómky!“. Vrámcami jej mohli záujemcovia položiť otázky pracovníčke ústavu Anete Wiśniewskej, ktorá sa venuje slnečnej fyzike. Spolu s výzvou bol zverejnený aj stručný dokument, ktorý predstavil verejnosti oblasť výskumu našej pracovníčky. Detailné odpovede na otázky záujemcov, ktorými boli predovšetkým mladí ľudia a deti, boli zverejnené na Medzinárodný deň žien 8.3.2025 v podobe 10-stranového dokumentu.

Ústav vyvíja snahy o inkluzívne prostredie pre zahraničných pracovníkov zvyšovaním podielu mailovej komunikácie s obsahom v slovenskom aj anglickom jazyku.

Uved'te stručnú charakteristiku a hodnotenie aktivít v oblasti HRS4R.

10.2. Informácie o aktivitách súvisiacich s uplatňovaním princípov rodovej rovnosti

Na Astronomickom ústave SAV, v. v. i., sa dôrazne uplatňujú pravidlá a princípy zaručujúce rodovú rovnosť pracovníkov. Pri obsadzovaní pracovných pozícií sa vychádza výlučne z kvalitatívnych ukazovateľov uchádzačov. Pravidlá odmeňovania pracovníkov sú striktné založené na posudzovaní kvality vykonanej práce a nie sú závislé na rodovej príslušnosti zamestnancov.

Astronomický ústav SAV, v. v. i., sa hlási k implementácii Plánu rodovej rovnosti SAV na obdobie 2025-2029 a má zriadenú pozíciu koordinátora pre rodovú rovnosť.

Medzi priority Astronomického ústavu SAV, v. v. i., patrí bezpečné, transparentné a férové pracovné prostredie pre každého zamestnanca bez ohľadu na rodovú príslušnosť. Ústav má formalizovaný postup v prípade podozrenia z výskytu sexuálneho obťažovania na pracovisku

prostredníctvom interného predpisu č. 01/2024 o postupoch pre nahlasovanie a riešenie prípadov sexuálneho obťažovania, ktorý je v súlade s vnútornými postupmi prevencie a eliminácie sexuálneho obťažovania a diskriminácie určenými uzneseniami Predsedníctva SAV z apríla a mája 2023. K týmto postupom ústav zabezpečil pre zamestnancov a študentov v roku 2025 možnosť opätovného preškolenia. Školenia boli vedené dôvernou osobou SAV Mgr. Verornikou Valkovičovou, PhD., v dňoch 18.9. v slovenskom jazyku a 24.9.2025 v anglickom jazyku v online forme.

Vedecká rada Astronomického ústavu SAV, v. v. i., každoročne vyhodnocuje najvýznamnejšie vedecké publikácie, na ktorých sa v danom roku podieľali pracovníci ústavu. V roku 2025 podalo návrh na zaradenie svojej práce medzi najvýznamnejšie výsledky spolu 7 pracovníkov v dvoch kategóriách: „Výsledky na báze základného výskumu“ (2 práce) a „Výsledky na báze medzinárodnej spolupráce“ (5 prác). Spomedzi nich boli 4 práce podané mužmi a 3 práce ženami, t. j. ženy podali 43% návrhov, čo je vysoké zastúpenie vzhľadom na percentuálny podiel vedeckých pracovníčok na ústave (26%).

Stručné hodnotenie stavu uplatňovania princípov rodovej rovnosti v organizácii, súvisiace aktivity a opatrenia, návrhy na aktualizáciu Plánu rodovej rovnosti SAV.

10.2.1. Rodová skladba hlavných riešiteľov (vedúcich) projektov

Prípadný stručný komentár ako úvod (nepovinný).

Tabuľka 10a Rodová skladba hlavných riešiteľov domácich projektov

ŠTRUKTÚRA PROJEKTOV	Organizácia SAV je nositeľom projektu			Organizácia SAV je zmluvným partnerom		
	Počet	Hlavný riešiteľ		Počet	Hlavný riešiteľ za organizáciu	
		Muž	Žena		Muž	Žena
1. Projekty VEGA	5	5	0	1	0	1
2. Projekty APVV	3	2	1	0	0	0
3. Projekty EŠIF/OP ŠF, Plán obnovy EÚ	5	4	1	0	0	0
4. Projekty SASPRO	0	0	0	0	0	0
5. Projekty IMPULZ	0	0	0	0	0	0
6. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)	0	0	0	0	0	0

Tabuľka 10b Rodová skladba hlavných riešiteľov medzinárodných projektov

ŠTRUKTÚRA PROJEKTOV	Organizácia SAV je nositeľom projektu			Organizácia SAV je zmluvným partnerom		
	Počet	Hlavný riešiteľ		Počet	Hlavný riešiteľ za organizáciu	
		Muž	Žena		Muž	Žena
1a. Projekty Horizont 2020	0	0	0	0	0	0
1b. Projekty Horizont Európa	1	0	1	0	0	0
2. Projekty ERA.NET, ESA, JRP	0	0	0	0	0	0
3. Projekty COST	0	0	0	1	0	1
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	0	0	0	0	0	0
5. Projekty v rámci medzivládnych dohôd	0	0	0	0	0	0
6. Projekty Mobility, Mobility Basic, Open Mobility a Mobility Visit	3	3	0	0	0	0
7. Bilaterálne projekty ostatné	2	1	1	0	0	0
8. Podpora MVTS z národných zdrojov (SAV, APVV a iné)	0	0	0	0	0	0
9. Podpora excelentného výskumu: SAS-UPJŠ ERC Visiting Fellowship Grants, Seal of Excellence, TANDEM	0	0	0	0	0	0
10. Iné projekty	0	0	0	0	0	0

10.2.2. Výskum zameraný na rodovú problematiku

V súčasnej dobe sa na Astronomickom ústave SAV, v. v. i., nerealizuje žiadny výskum zameraný na rodovú problematiku.

Uved'te stručné, základné informácie o projektoch orientovaných na rodovú problematiku, ak organizácia takýto výskum realizuje. Informácie o financovaní a výsledkoch takýchto projektov sa nachádzajú v kapitole 2 a v prílohe A-3.

10.3. Informácie o pracovných a sociálnych podmienkach zamestnancov a uplatňovaní ich práv

Astronomický ústav SAV, v. v. i., v oblasti pracovných a sociálnych podmienok zamestnancov a uplatňovaní ich práv vychádza z aktuálnej legislatívnej úpravy a dodržiava všetky ustanovenia

dotknutých zákonov. Na ústave pôsobí Základná organizácia odborového zväzu pracovníkov SAV pri AsÚ SAV, ktorá sa podieľa na kontrole napĺňania všetkých práv zamestnancov a tiež uzatvára každoročne Kolektívnu zmluvu, ktorá vychádza z Kolektívnej zmluvy vyššieho stupňa. V roku 2025 bola uzavretá Kolektívna zmluva na nasledujúci rok, ktorá umožní nevedeckým pracovníkom čerpanie voľna na zotavenie počas 5 dní v roku. Zavádza tiež možnosť nenávratnej sociálnej výpomoci pri práceneschopnosti pracovníka ústavu dlhšej ako 5 mesiacov.

S cieľom zlepšenia komfortu pracovného prostredia ústav získal v roku 2025 finančné prostriedky na výmenu interiérových dverí na kanceláriách pracovníkov v hlavnej budove ústavu, s realizáciou prác v roku 2026. Taktiež zabezpečil rekonštrukciu príjazdovej cesty k hlavnej budove a parkoviska.

Na ústave sa uskutočnil dotazníkový prieskum týkajúci sa spokojnosti zamestnancov a študentov s pracovným prostredím, ktorý zahŕňal okruhy otázok zamerané na podmienky pre plnenie pracovných úloh, technické vybavenie, komunikáciu a spoluprácu na pracovisku, a rovnováhu medzi pracovným a osobným životom. Výsledky dotazníka boli vyhodnotené Ústavnou radou a následne prebehla diskusia medzi riaditeľom ústavu a zamestnancami na celoústavnej schôdzi.

V roku 2025 ústav organizoval tradičné spoločenské akcie - letný guláš a vianočnú kapustnicu.

Uved'te stručné, základné informácie k problematike.

11. Orgány v. v. i., ich skladba a činnosť, štrukturálne, organizačné a právne zmeny v organizácii

11.1. Správna rada - zloženie a základná informácia o činnosti

Zloženie:

Predseda:

Mgr. Peter Gömöry, PhD.

Podpredseda:

Mgr. Marián Jakubík, PhD.

Členovia:

Mgr. Ľubomír Hambálek, PhD.

Mgr. Dušan Tomko, PhD.

Mgr. Martin Vaňko, PhD.

Správna rada v roku 2025 zasadala celkovo päťkrát. Na zasadnutiach sa členovia Správnej rady zaoberali rôznymi otázkami týkajúcimi sa AsÚ SAV, v. v. i. Konkrétne, odznela informácia o konečnom rozpočte ústavu za rok 2024 a Správna rada schválila návrh rozpočtu na rok 2025 (marec 2025). Správna rada v roku 2025 ďalej zorganizovala voľby členov Vedeckej rady Astronomického ústavu SAV, v. v. i. pre funkčné obdobie 2025-2030 tak ako jej to ukladá zákon č. 243/2017 o verejnej výskumnej inštitúcii a „Volebný a nominačný poriadok na funkciu člena Vedeckej rady Astronomického ústavu Slovenskej akadémie vied, verejnej výskumnej inštitúcie“. Ďalej Správna rada prerokovala Účtovnú závierku ústavu za rok 2024 (jún 2025) a Výročnú správu o činnosti a hospodárení Astronomického ústavu SAV, v. v. i. za rok 2024 (júl 2025). Na poslednom zasadnutí v novembri 2025 Správna rada prerokovala a odporučila riaditeľovi na vydanie „Interný predpis č. 5/2025 o tvorbe a použití rezervného fondu“. Ďalej na tomto zasadnutí vzala Správna rada na vedomie účtovnú operáciu nerozdeleného hospodárskeho výsledku za rok 2025. Správna rada prijala v roku 2025 celkovo 6 uznesení.

11.2. Vedecká rada - zloženie a základná informácia o činnosti

Zloženie od 01.06.2025 (do 31.05.2030)

Predseda

Mgr. Zuzana Kaňuchová, PhD.

Podpredseda

RNDr. Ján Budaj, DrSc.

Členovia

RNDr. Miroslav Bárta, PhD. – Astronomický ústav AV ČR, Ondřejov, Česká republika

doc. Ing. Peter Butka, PhD. – Katedra kybernetiky a umelej inteligencie, FEI TUKE, Košice

Mgr. Marek Husárik, PhD.

Oleksandra Ivanova, PhD.

doc. RNDr. Tomáš Lučivjanský, PhD. – Ústav fyzikálnych vied, PF UPJŠ, Košice

RNDr. Richard Komžík, CSc.

Doc. RNDr. Leonard Kornoš, PhD. – Oddelenie astronómie a astrofyziky, FMFI UK, Bratislava

Mgr. Emil Kundra, PhD.

Ing. Ján Michlík – Phillip a.s., L. Svobodu 73, 05801 Poprad (člen predstavenstva)

RNDr. Theodor Pribulla, CSc.

RNDr. Ján Rybák, CSc.

RNDr. Metod Saniga, DrSc.

doc. RNDr. Petr Zaslach, PhD. – Astronomický ústav MFF UK, Praha, Česká republika

Zloženie do 31.05.2025

Predseda:

RNDr. Aleš Kučera, CSc.

Podpredseda:

RNDr. Theodor Pribulla, CSc.

Členovia

Ing. Ján Baláž, PhD. – Ústav experimentálnej fyziky SAV, v. v. i., Košice

RNDr. Mária Hajduková, PhD.

Mgr. Marek Husárik, PhD.

Doc. RNDr. Leonard Kornoš, PhD. – Oddelenie astronómie a astrofyziky, FMFI UK, Bratislava

Ing. Hana Mészáros, PhD. – Astronomický ústav AV ČR, Ondřejov, Česká republika

RNDr. Luboš Neslušan, CSc.

RNDr. Ján Rybák, CSc.

Mgr. Natalia Shagatova, PhD.

Mgr. Pavol Schwartz, PhD.

RNDr. Augustín Skopal, DrSc.

Doc. RNDr. Marek Wolf, CSc. – Astronomický ústav MFF UK, Praha, Česká republika

V roku 2025 bola v zmysle § 18 ods. 4 a ods. 6 zákona č. 243/2017 Z. z. o verejnej výskumnej inštitúcii ustanovená nová Vedecká rada zložená z 9 interných a 6 externých členov. Na prezenčnom zasadnutí si Vedecká rada v novom zložení na začiatku svojho funkčného obdobia zvolila svojho predsedu a podpredsedu VR. Ostatné rokovania a schvaľovania VR boli vykonané online. Vedecká rada sa počas roka 2025 vyjadrovala ku Výročnej správe Astronomického ústavu SAV, v. v. i.; k podávaným výskumným projektom na AsÚ SAV, v. v. i., k motivačným štipendiám doktorandov; k návrhu na preradenie pracovníka do kvalifikačného stupňa IIa; k návrhu kandidátov na členov komisie VEGA č. 2 pre vedy o Zemi a vesmíre, environmentálne vedy (aj zemské zdroje) na funkčné obdobie 2025 – 2029. Vedecká rada ďalej posudzovala autorské podiely v súťažnej práci prihlasovanej do súťaže mladých vedeckých pracovníkov a volila svojich zástupcov do výberových komisií pre obsadenie miest vedúcich Oddelenia medziplanetárnej hmoty a Oddelenia fyziky Slnka. Vedecká rada v roku 2025 organizovala dve zasadania Akademickej obce, na ktorých boli prerokované nominácie kandidátov na funkciu člena Predsedníctva SAV vo volebnom období 2025-2029 a pozíciu zástupcu Astronomického ústavu SAV, v. v. i. v Sneme SAV pre funkčné obdobie 2025-2029. Celkový počet uznesení Vedeckej rady prijatých v r. 2025 bolo 22.

11.3. Dozorná rada - zloženie a základná informácia o činnosti

Zloženie:

Predseda:

Mgr. Martin Venhart, DrSc. – Slovenská akadémia vied

doc. RNDr. Pavol Hvizdoš, DrSc. – Slovenská akadémia vied (od 01.07.2025)

Členovia:

prof. Ing. Vladimír Nečas, PhD. – Slovenská technická univerzita

Ing. Romana Jurkiewiczová – Slovenská akadémia vied

Dozorná rada v roku 2025 zasadala celkovo trikrát. Na zasadnutiach členovia Dozornej rady prerokovali okrem iného nasledovné body: v tajnom hlasovaní zvolili za predsedu Dozornej rady od 01.07.2025 doc. RNDr. Pavla Hvizdoša, DrSc.; v zmysle § 19, bod 7 c/ zákona č. 243/2017 Z. z. schválili Účtovnú závierku Astronomického ústavu SAV, v. v. i., za rok 2024 a prerokovali Výročnú správu Astronomického ústavu SAV, v. v. i., za rok 2024 bez vznesenia pripomienok. Okrem toho, na zasadnutiach Dozornej rady informoval riaditeľ ústavu o stave, hospodárení, personálnych otázkach a projektových aktivitách ústavu za rok 2025 ako aj o stave, manažmente, riadiacej činnosti a vedeckom vzdelávaní na ústave v priebehu roka 2025.

11.4. Informácie o štrukturálnych a organizačných zmenách v organizácii

V roku 2025 nedošlo na Astronomickom ústave SAV, v. v. i. k žiadnym štrukturálnym ani organizačným zmenám.

11.5. Zmeny zakladacej listiny, vnútorných predpisov organizácie alebo zakladateľa

V priebehu roku 2025 nedošlo k žiadnym zmenám zakladacej listiny ani vnútorných predpisov Astronomického ústavu SAV, v. v. i.

Zakladateľ Astronomického ústavu SAV, v. v. i. v súlade s § 38 ods. 1) a 4) zákona č. 243/2017 Z. z. o verejnej výskumnej inštitúcii a o zmene a doplnení niektorých zákonov vydal počas roku 2025 tieto aktualizované vnútorné predpisy

- Pravidlá odmeňovania riaditeľa verejnej výskumnej inštitúcie založenej Slovenskou akadémiou vied - v súlade s § 38 ods. 1) písm. c)

12. Činnosť knižnično-informačného pracoviska organizácie

12.1. Knižničný fond

Tabuľka 12a Knižničný fond

Knižničné jednotky spolu		9706
z toho	knihy a zviazané periodiká	9374
	audiovizuálne dokumenty	0
	elektronické dokumenty (vrátane digitálnych)	205
	mikroformy	0
	iné špeciálne dokumenty - dizertácie, výskumné správy	127
	Rukopisy, vzácne tlače	0
Počet titulov dochádzajúcich periodík		9
z toho zahraničné periodiká		8
Ročný prírastok knižničných jednotiek		33
v tom	kúpou	6
	darom	24
	výmenou	3
	bezodplatným prevodom	0
	náhradou	0
Úbytky knižničných jednotiek		0
Knižničné jednotky spracované automatizovane		9579

Výraz „**v tom**“ označuje úplné (vyčerpávajúce) údaje, ktorých súčet sa musí rovnať údaju v riadku „spolu“, čiže nadradenému riadku.

Výraz „**z toho**“ označuje neúplné (výberové) údaje, ktorých súčet sa nemusí rovnať údaju v riadku „spolu“.

12.2. Výpožičky a služby

Tabuľka 12b Výpožičky a služby

Výpožičky spolu (riadok 1)		62
v tom z r. 1	prezenčné výpožičky	22
	absenčné výpožičky	40
v tom z r. 1	odborná literatúra pre dospelých	55
	výpožičky periodík	7
MVS iným knižniciam		0
MVS z iných knižníc		0
MMVS iným knižniciam		0
MMVS z iných knižníc		0
Počet vypracovaných bibliografií		0
Počet vypracovaných rešerší		0

12.3. Používatelia

Tabuľka 12c Používatelia

Registrovaní používatelia	34
Návštevníci knižnice spolu (bez návštevníkov podujatí)	171

12.4. Iné údaje

Tabuľka 12d Iné údaje

On-line katalóg knižnice na internete (1=áno, 0=nie)	1
Náklady na nákup knižničného fondu v €	557

12.5. Iné informácie o knižničnej činnosti

13. Nadácie a fondy pri organizácii SAV

14. Realizácia Koncepcie dlhodobého rozvoja a Akčného plánu organizácie

14.1. Odporúčania z posledného pravidelného (akreditačného) hodnotenia organizácií SAV

Posledné pravidelné hodnotenie organizácií SAV sa uskutočnilo v roku 2022 a zahŕňalo posudzovanie výstupov ústavov za obdobie 01.01.2016 – 31.12.2021. V prípade Astronomického ústavu SAV, v. v. i. (ďalej len AsÚ SAV), neposkytol hodnotiaci panel žiadne konkrétne alebo špecifické odporúčania. Komisia však konštatovala výrazné kvantitatívne, ale aj kvalitatívne zlepšenie v publikačnom výstupe vedeckých pracovníkov ústavu. To sa prejavuje aj v zvyšujúcom sa počte citácií zaznamenaných za daný kalendárny rok. Vyzdvihnuté bolo zapojenie ústavu do troch projektov EÚ financovaných zo schém H2020/FP7 s hlavným dôrazom na účasť v projekte Európskeho slnečného ďalekohľadu EST. Veľmi pozitívne bolo hodnotené aj zlepšovanie vlastnej vedeckej infraštruktúry na observatóriách na Lomnickom štíte a Skalnatom Plese ako aj veľmi aktívny prístup k popularizácii vedy na Slovensku.

Ako nedostatok bol uvedený hlavne pretrvávajúci nízky počet PhD študentov školených na ústave. Vytknutá bola aj rodová nerovnováha a nevhodná veková skladba vedeckých pracovníkov.

Konštatované boli aj externé okolnosti, ktoré síce majú vplyv na výskum uskutočňovaný na AsÚ SAV, ich finálne riešenie ale nie je plne v kompetencii ústavu (napr. skutočnosť, že Slovensko stále nie je členským štátom ESO - European Southern Observatory).

14.2. Hlavné body Akčného plánu organizácie a stav ich plnenia

Aktuálny Akčný plán AsÚ SAV vychádza z historickej tradície ústavu (napr. zameranie jednotlivých vedeckých oddelení). V prevažnej miere ale zohľadňuje odporúčania formulované v dvoch predchádzajúcich medzinárodných akreditačných hodnoteniach všetkých ústavov SAV. Obe akreditačné komisie pritom potvrdili, že „výskum vykonávaný na AsÚ SAV je viditeľný na európskej úrovni“. Hlavná kritika sa sústredila na nízky počet doktorandov a nerovnomerné zastúpenie pohlaví medzi vedcami a ich zastúpenie vo vedúcich pozíciách.

Na základe spomínaných hodnotení vypracoval AsÚ SAV Akčný plán organizácie do roku 2029 s týmito kľúčovými bodmi:

- 1) zamerať sa výlučne na excelentnú vedu,
- 2) zlepšiť existujúci doktorandský program,
- 3) zvýšiť medzinárodnú viditeľnosť prostredníctvom účasti na medzinárodných projektoch,
- 4) zlepšiť rodovú rovnosť na ústave,
- 5) pokračovať v transfere poznatkov do spoločnosti formou popularizačných aktivít.

K bodu 1) – AsÚ SAV bude pokračovať v uplatňovaní prísneho systému komplexného hodnotenia vedcov, ktorý zohľadňuje najmä výstupy publikované v popredných časopisoch (excelentná veda). Priamym dôsledkom je napríklad rozhodnutie o prípadnom predĺžení pracovných zmlúv. Okrem toho, pracovníci AsÚ SAV sú finančne odmeňovaní za svoje publikačné výstupy v závislosti od kvality (impaktného faktoru) časopisu, čo motivuje vedcov k publikovaniu svojich výsledkov v najlepších periodikách.

Merateľný ukazovateľ 1a:

Aspoň 55% vedeckých publikácií AsÚ SAV uverejnených v danom kalendárnom roku bude evidovaných v prvom kvartile podľa SJR a 75% publikácií bude uverejnených v prvom a druhom kvartile podľa SJR. **Stav plnenia:** V roku 2025 bolo uverejnených celkovo 36 vedeckých publikácií, z toho v: Q1 = 23 publikácií a v Q1+Q2 = 27 publikácií podľa SJR (viď tabuľka 2f). To zodpovedá pomernému zastúpeniu publikácií na úrovni: Q1 = 63,9%, Q1+Q2 = 75%.

Merateľný ukazovateľ 1b:

Definovanie pravidiel finančného ohodnotenia publikačného výstupu pracovníkov AsÚ SAV. **Stav plnenia:** V priebehu roka 2025 bol aktualizovaný „Interný predpis Astronomického ústavu SAV, v. v. i. č. 4/2022“, ktorým sa stanovujú pravidlá Určovania nadtarifnej zložky platu a odmeňovania zamestnancov AsÚ SAV. Predmetný interný predpis obsahuje aj detailné pravidlá odmeňovania vedeckých pracovníkov ústavu za publikačnú činnosť.

K bodu 2) – Pre zlepšenie kvality poskytovaného doktorandského programu uzavrie AsÚ SAV novú dohodu o spolupráci na výchove doktorandov s uznávanou európskou inštitúciou a/alebo univerzitou. Tým sa zabezpečí priamy prístup k väčšiemu počtu potenciálnych doktorandov. AsÚ SAV sa bude snažiť prilákať vyšší počet doktorandov aj prostredníctvom propagácie potenciálnych tém doktorandského štúdia na medzinárodných platformách, napr. EURAXESS.

Merateľný ukazovateľ 2a:

Nová dohoda s renomovanou organizáciou týkajúca sa doktorandského programu. **Stav plnenia:** V priebehu roka 2025 prebehli v súvislosti s dohodou o podpore doktorandského štúdia prvotné negociácie s Instituto de Astrofisica de Canarias v Španielsku. Jedná sa o poprednú európsku organizáciu v oblasti astronómie a astrofyziky.

Merateľný ukazovateľ 2b:

Podanie projektu na financovanie PhD pozície v rámci výziev Horizont Európa: Marie Skłodowska Curie Actions. **Stav plnenia:** V roku 2025 podal AsÚ SAV ako člen konzorcia pozostávajúceho z ôsmich európsky vedeckých inštitúcií (Nemecko, Spojené kráľovstvo, Chorvátsko, Maďarsko, Portugalsko, Poľsko, Rakúsko, Slovensko) a siedmich priemyselných organizácií (prevažne z Maďarska, Poľska a Nemecka) projekt v rámci výzvy HORIZON-MSCA-2026-DN-01.

K bodu 3) – AsÚ SAV bude aj naďalej posilňovať svoju účasť na veľkom paneurópskom projekte, ktorý je zahrnutý v ESFRI, t. j. v projekte realizácie najväčšieho európskeho slnečného ďalekohľadu (EST). Bude podporovať aj ďalší rozvoj celosvetovo používanej databázy presných obežných dráh meteorov – IAU MDC. Ďalším plánom je začleniť vybrané ďalekohľady AsÚ SAV určené na nočné pozorovania do európskej siete OPTICON, alebo do podobných nadnárodných sietí, s cieľom zabezpečiť ich optimálne využívanie.

Merateľný ukazovateľ 3a:

Začlenenie vybraných ďalekohľadov AsÚ SAV určených na nočné pozorovanie do medzinárodnej siete. **Stav plnenia:** V priebehu roka 2025 boli započaté rokovania o zapojení ďalekohľadov AsÚ SAV umiestnených na observatóriu na Skalnatom Plese do medzinárodnej siete OPTICON.

Merateľný ukazovateľ 3b:

Zapojenie sa AsÚ SAV do medzinárodne významného projektu. **Stav plnenia:** V priebehu roka 2025 bol AsÚ SAV jedným z kľúčových partnerských organizácií v projekte EST. Ústav zorganizoval podujatie s názvom EST Slovakia Infoday pre predstaviteľov slovenských technologických firiem, ktoré by sa mohli podieľať na realizácii projektu EST. Výraznou mierou taktiež prispel k podpisu memoranda o porozumení pri spolupráci Slovenska a Španielska na projekte EST ako aj k vytvoreniu Rady vládnych reprezentantov EST. Viac informácií je uvedených v kapitole „15. Iné významné činnosti organizácie“.

K bodu 4) – AsÚ SAV bude pokračovať v implementácii požiadaviek „Plánu rodovej rovnosti“ a pravidiel „Stratégie ľudských zdrojov vo výskume (Human Resources Strategy for Research – HRS4R)“. Cieľom je zvýšiť počet žien na ústave a následne ich zapojenie do vedúcich vedeckých pozícií. AsÚ SAV sa bude taktiež usilovať o prilákanie vedeckých pracovníkov zo zahraničia. Hlavnou prioritou je však udržať bezpečné, transparentné a spravodlivé pracovné prostredie pre každého zamestnanca bez ohľadu na pohlavie, pôvod atď.

Merateľný ukazovateľ 4a:

Dosiahnuť aby 50% kľúčových pracovných pozícií na ústave (riaditeľ, zástupca riaditeľa, vedecký tajomník, predseda vedeckej rady) bolo obsadených ženami. **Stav plnenia:** Aktuálne je na AsÚ SAV obsadených ženami 50% kľúčových pracovných pozícií. Jedná sa o pozície vedeckej tajomníčky a predsedníčky vedeckej rady.

Merateľný ukazovateľ 4b:

Postupy prijímania zamestnancov založené na výberových komisiách, ktoré sú vždy vytvorené s ohľadom na požiadavky plánu rodovej rovnosti, ale s prihliadnutím výlučne na vedeckú kvalitu uchádzača. **Stav plnenia:** V roku 2025 boli na AsÚ SAV prijaté „Zásady náboru a výberu zamestnancov vo verejnej výskumnej inštitúcii Slovenskej akadémie vied“, ktoré sú v súlade s pravidlami HRS4R (viac informácií je dostupných na <https://www.astro.sk/implementacia-hrs4r/>).

K bodu 5) – AsÚ SAV bude aj naďalej vynakladať úsilie zamerané na oslovenie širokej verejnosti prostredníctvom transferu vedeckých poznatkov. Osobitný dôraz bude kladený na prezentáciu originálnych vedeckých výsledkov ústavu na sociálnych sieťach, aby sa zabezpečil čo najširší prístup verejnosti. Neoddeliteľnou úlohou v tejto oblasti je aj boj proti hoaxom, ktoré majú negatívny vplyv na spoločnosť, a preto je potrebné minimalizovať ich dopad. Hoaxy z oblasti astrofyziky sú, žiaľ, stále príliš časté, napr. plochá Zem, spochybňovanie pristátia človeka na Mesiaci, teória dutej Zeme. A samozrejme, samostatnou kategóriou, ktorú je potrebné opakovane vysvetľovať, je otázka UFO. Transfer poznatkov k verejnosti je preto jednou z kľúčových úloh AsÚ SAV.

Merateľný ukazovateľ 5:

Dosiahnuť najvyšší počet popularizačných výstupov zo všetkých ústavov, ktoré sú zahrnuté do prvého oddelenia SAV. **Stav plnenia:** počet popularizačných výstupov AsÚ SAV za rok 2025 = 481. Viac informácií je uvedených v kapitole „7. Vedecko-organizačné a popularizačné aktivity“ a v „Prílohe A-6“.

14.3. Aktualizácia Akčného plánu organizácie v roku 2025

V roku 2025 bol ako merateľný ukazovateľ „Výkonnostnej zmluvy 2024-2026“ Astronomického ústavu SAV, v. v. i. vypracovaný nový Akčný plán organizácie do roku 2029. Hlavné body Akčného plánu a stav ich plnenia sú zosumarizované v kapitole 14.2.

15. Iné významné činnosti organizácie

Astronomický ústav SAV, v. v. i. je stálym členom EST projektu (European Solar 4m Telescope), ktorý je od roku 2017 zahrnutý do "The pan-European infrastructure in the ESFRI ROAD MAP". Toto členstvo je kľúčové pre zabezpečenie možnosti priameho prístupu AsÚ SAV k špičkovej technike na výskum Slnka aj v budúcnosti. V roku 2021 bola zverejnená prvá Cestovná mapa výskumných infraštruktúr - SK VI Roadmap 2020 – 2030. Projekt Európskeho slnečného ďalekohľadu je jej súčasťou.

(<https://www.minedu.sk/cestovna-mapa-vyskumnych-infrastruktur-sk-vi-roadmap-2020-2030/>)

V rámci projektu EST zorganizoval Astronomický ústav SAV, v. v. i. podujatie s názvom EST Slovakia Infoday. Podujatie sa uskutočnilo dňa 24. júna 2025 v priestoroch Ústav materiálov a mechaniky strojov SAV, v. v. i. v Bratislave a bolo určené pre predstaviteľov slovenských technologických firiem, ktoré by sa mohli podieľať na konštrukčnej fáze ďalekohľadu EST. Podujatie potvrdilo, že Slovensko disponuje technickým know-how a expertízou, ktoré sú pre projekt EST mimoriadne cenné. Preukázal sa aj vysoký záujem slovenských firiem o spoluprácu pri výstavbe tejto veľkej výskumnej infraštruktúry.

(https://www.sav.sk/?lang=sk&doc=services-news&source_no=20&news_no=12901,

https://www.sav.sk/index.php?lang=sk&doc=services-news&source_no=20&news_no=12922)

Astronomický ústav SAV, v. v. i. sa podieľal aj na dosiahnutí zatiaľ najvýznamnejšieho míľnika súvisiaceho s realizovaním projektu EST, keď prispel k podpisu memoranda o spolupráci na projekte EST medzi Španielskom a Slovenskom. Predmetnú zmluvu podpísala v Madride dňa 28. októbra 2025 za španielsku stranu generálna tajomníčka pre výskum Eva Ortega-Paíno zastupujúca Ministerstvo vedy, inovácie a univerzít vlády Španielska (MICIU) a za slovenskú stranu generálny riaditeľ oddelenia vedy a výskumu Jakub Birka zastupujúci Ministerstva školstva, výskumu, rozvoja a mládeže Slovenskej republiky. Memorandum sa zameriava na vytvorenie strategického rámca spolupráce medzi oboma krajinami v projekte EST, ktorý je referenčnou infraštruktúrou pre výskum slnečnej fyziky v Európe. Sústreďuje sa aj na spoločnú prácu pri vytvorení Európskeho konzorcia pre výskumnú infraštruktúru (ERIC) pre ďalekohľad EST. V deň podpisu memoranda došlo aj k vytvoreniu tzv. Rady vládnych reprezentantov pre projekt EST, pričom Slovensko je spolu so Španielskom a Českou republikou jednou zo zakladajúcich krajín Rady.

(https://www.sav.sk/?lang=sk&doc=services-news&source_no=20&news_no=13175)

Astronomický ústav SAV, v. v. i. je správcom a prevádzkovateľom medzinárodnej IAU MDC databázy meteorických rojov a databázy dráh meteorov.

(<https://www.iaumeteordatacenter.org>)

Aj v roku 2025 plnil Astronomický ústav SAV, v. v. i. ciele stanovené vo Výkonnostnej zmluve na roky 2024-2026. Táto zmluva predstavuje významný zdroj dodatočných finančných prostriedkov zo štátneho rozpočtu, ktorý vylepšuje platové podmienky pracovníkov a výrazne prispieva k udržateľnosti prevádzky ústavu. V roku 2025 získal ústav takýmto spôsobom dodatočné prostriedky na platy zamestnancov (KTG 610+620) vo výške 123 868 Eur a bežné finančné prostriedky na prevádzku ústavu (KTG 630) vo výške 11 477 Eur.

16. Poskytovanie informácií v súlade so zákonom o slobodnom prístupe k informáciám

V zmysle zákona 546/2010 z 9. decembra 2010, ktorým sa dopĺňa zákon č. 40/1964 Zb. Občiansky zákonník v znení neskorších predpisov a ktorým sa menia a dopĺňajú niektoré zákony, zverejňuje Astronomický ústav SAV, v. v. i. ako osoba povinná faktúry, zmluvy a objednávky na svojej www v predpísanej forme.

Okrem toho Astronomický ústav SAV, v. v. i. sprístupňuje informácie v súlade so Zákonom číslo 211/2000 Z. z. o slobodnom prístupe k informáciám a o zmene a doplnení niektorých zákonov (zákon o slobode informácií). Podľa tohto zákona je Astronomický ústav SAV, v. v. i. povinnou osobou v zmysle §2 ods. 3. Takejto povinnej osobe §3 ods. 2 stanovuje povinnosť sprístupniť informácie o hospodárení s verejnými prostriedkami, nakladaní s majetkom štátu alebo majetkom obce a obsahu, plnení a činnostiach vykonávaných na základe uzatvorenej zmluvy.

V záujme čo najlepšieho, okamžitého a bezplatného poskytovania informácií záujemcom Astronomický ústav SAV, v. v. i. sprístupňuje väčšinu dokumentov na svojej webovej stránke <https://www.astro.sk>. Informácie o hospodárení s verejnými prostriedkami a nakladaní s majetkom štátu sú každoročne zverejňované vo výročných správach Astronomického ústavu SAV, v. v. i. na adrese

https://www.astro.sk/o-nas/vyrocne-spravy_akreditacie/

Okrem týchto informácií je možné na webovej stránke Astronomického ústavu SAV, v. v. i. nájsť aj všeobecnú charakteristiku pracoviska, základné kontakty, organizačnú schému a mnohé ďalšie informácie. Väčšina týchto on-line dokumentov je zverejnená dvojjazyčne (v slovenskej i anglickej verzii).

Uved'te informácie v súlade so zákonom č. 211/2000 Z.z. o slobodnom prístupe k informáciám.

17. Problémy organizácie a podnety pre Predsedníctvo SAV k činnosti SAV

Uved'te informácie a podnety v súlade s názvom kapitoly.

18. Vyjadrenia vedeckej rady organizácie k výsledkom výskumnej činnosti za uplynulý rok

Vedecká rada Astronomického ústavu SAV, v. v. i. zhodnotila výsledky výskumnej činnosti Astronomického ústavu SAV, v. v. i. za r. 2025 ako porovnateľné s výsledkami organizácie za posledných 10 rokov, aj keď počet publikovaných prác v kategóriách 1 až 10 podľa tabuľky 2e v pomere k počtu vedeckých pracovníkov (hodnota T v tabuľke 1a) je len 1.30 a je na dolnej hranici odchýlky štatistického priemeru za posledných 10 rokov (1.79 ± 0.51). Vysoko cenený trend publikovania najmä v prvom kvartile je zachovaný. Počet citácií pokračuje v dlhodobom stúpajúcom trende; oproti minulému roku sa počet citácií vo WoS zvýšil o 13%. Dlhodobý nárast počtu citačných ohlasov a publikovanie väčšiny prác v prvom kvartile poukazuje na zvyšovanie kvality a aktuálnosti tém publikovaných výsledkov ústavu. Pozitívny je nárast počtu doktorandov, pričom všetci doktorandi prijatí v roku 2025 sú zo zahraničia. Rovnako pozitívnym je nárast počtu získaných bilaterálnych projektov a projektov mobility. Astronomický ústav SAV, v. v. i. je plne spôsobilý vykonávať výskumnú činnosť.

Schválila vedecká rada organizácie SAV dňa 23.1.2026

Mgr. Zuzana Kaňuchová, PhD.
predsedníčka vedeckej rady

Výročnú správu o činnosti organizácie za rok 2025 vypracoval(i):

Jozefína Čekovská, 052/7879180

Mgr. Milena Eccles, 052/7879111

Mgr. Peter Gömöry, PhD., 052/7879182

Mgr. Marián Jakubík, PhD., 052/7879199

Mgr. Bibiána Pažická, 052/7879123

Ing. Andrea Sanigová, 052/7879159

Mgr. Natalia Shagatova, PhD., 052/7879152

Tatranská Lomnica, 26.1.2026

Mgr. Peter Gömöry, PhD.

riaditeľ organizácie

PRÍLOHY k časti A

Príloha A-1

Zoznam zamestnancov a doktorandov organizácie k 31.12.2025

Zoznam zamestnancov podľa štruktúry

	Meno s titulmi	Úväzok (v %)	Ročný prepočítaný úväzok
Vedúci vedeckí pracovníci DrSc.			
1.	RNDr. Vojtech Rušin, DrSc.	30	0.30
2.	RNDr. Metod Saniga, DrSc.	100	1.00
3.	RNDr. Augustín Skopal, DrSc.	100	1.00
4.	doc. RNDr. Ján Svoreň, DrSc.	30	0.30
Samostatní vedeckí pracovníci			
1.	RNDr. Ján Budaj, DrSc.	100	1.00
2.	Mgr. Peter Gömöry, PhD.	100	1.00
3.	RNDr. Mária Hajduková, PhD.	100	1.00
4.	Mgr. Ľubomír Hambálek, PhD.	90	0.90
5.	Mgr. Marek Husárik, PhD.	75	0.75
6.	Mgr. Oleksandra Ivanova, PhD.	100	1.00
7.	Mgr. Marián Jakubík, PhD.	100	1.00
8.	Mgr. Zuzana Kaňuchová, PhD.	100	1.00
9.	RNDr. Richard Komžík, CSc.	100	1.00
10.	Mgr. Július Koza, PhD.	100	1.00
11.	RNDr. Aleš Kučera, CSc.	30	0.30
12.	Mgr. Emil Kundra, PhD.	90	0.90
13.	RNDr. Luboš Neslušan, CSc.	100	1.00
14.	RNDr. Theodor Pribulla, CSc.	100	1.00
15.	RNDr. Ján Rybák, CSc.	100	1.00
16.	Sergey Shugarov, CSc.	30	0.30
17.	Mgr. Dušan Tomko, PhD.	95	0.95
18.	Mgr. Martin Vaňko, PhD.	100	1.00
Vedeckí pracovníci			
1.	Mgr. Martin Benko, PhD.	100	1.00
2.	Mgr. Jakub Cehula, PhD.	100	0.08
3.	RNDr. Zoltán Garai, PhD.	100	1.00

4.	RNDr. Martina Kováčová, PhD.	100	1.00
5.	Mgr. Viktoriia Krushevska, PhD.	100	1.00
6.	Mgr. Sergo Lomineishvili, PhD.	100	1.00
7.	Mgr. Andrii Maliuk, PhD.	100	1.00
8.	Mgr. Natalia Shagatova, PhD.	95	0.95
9.	Mgr. Olena Shubina, PhD.	100	1.00
10.	Zurab Vashalomidze, PhD.	100	1.00
11.	Mgr. Anhelina Voitko, PhD.	100	0.33
12.	Msc. Aneta Barbara Wiśniewska, PhD.	100	1.00
Odborní pracovníci s VŠ vzděláním (výzkumní a vývojoví zaměstnanci)			
1.	Ing. Ján Adamčák	100	1.00
2.	Ing. Jakub Ambróz	100	1.00
3.	Ing. Jaroslav Ambróz	100	1.00
4.	Ing. Miroslav Hutár	15	0.15
5.	RNDr. Daniel Novocký, CSc.	50	0.50
6.	Ing. Michal Pikler	100	1.00
7.	Ing. Peter Sivanič	100	1.00
8.	Ing. Michal Trembáč	100	1.00
Odborní pracovníci s VŠ vzděláním (ostatní zaměstnanci)			
1.	Ing. Vladimír Dubjel	100	1.00
2.	Mgr. Bibiána Pažická	100	1.00
3.	Ing. Andrea Sanigová	100	1.00
Odborní pracovníci ÚSV			
1.	Jozefína Čekovská	100	1.00
2.	Gabriel Červák	100	1.00
3.	Mgr. Milena Eccles	100	1.00
4.	RNDr. Mária Hajduková, PhD.	10	0.10
5.	Štefan Irha	110	1.10
6.	Beáta Neubellerová	100	0.92
Ostatní pracovníci			
1.	František Budzák	100	1.00
2.	Ján Klein	50	0.50
3.	Vladimír Kováč	100	1.00
4.	Mgr. Ján Kovalčík	100	0.08
5.	Libuša Pavligová	100	1.00

6.	Mgr. Zuzana Petrová	40	0.40
7.	Alena Pirožeková	100	1.00
8.	Mgr. Dušan Tomko, PhD.	10	0.10

Zoznam zamestnancov, ktorí odišli v priebehu roka

	Meno s titulmi	Dátum odchodu	Ročný prepočítaný úväzok
Samostatní vedeckí pracovníci			
1.	RNDr. Aleš Kučera, CSc.	31.12.2025	0.30
2.	Mgr. Pavol Schwartz, PhD.	31.5.2025	0.38
Vedeckí pracovníci			
1.	Mgr. Viktoriia Krushevska, PhD.	31.12.2025	1.00
2.	Mgr. Andrii Maliuk, PhD.	31.12.2025	1.00
Odborní pracovníci ÚSV			
1.	Bc. Mária Chlebovcová	31.1.2025	0.08
Ostatní pracovníci			
1.	Dalibor Jendrejčák	30.9.2025	0.90
2.	Adrián Kučečka	30.11.2025	0.07
3.	Miroslav Sidor	22.10.2025	0.05

Zoznam doktorandov

	Meno s titulmi	Škola/fakulta	Študijný odbor
Interní doktorandi hrazení z prostředků SAV			
1.	Mgr. Silvia Ďurišová	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
2.	MSc. Elene Midelashvili	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
3.	MSc. Reddy Charan Reddy Munagala	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
4.	MSc. Mishal Nadeem	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
5.	Mgr. Dmytro Orikhovskiy	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
6.	MSc. Leonid Shakun	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
Interní doktorandi hrazení z iných zdrojov			
<i>organizácia nemá interných doktorandov hrazených z iných zdrojov</i>			
Externí doktorandi			
<i>organizácia nemá externých doktorandov</i>			

Zoznam zamestnancov prijatých do jedného roka od získania PhD.

	Meno s titulmi	Dátum obhajoby	Dátum prijatia	Úväzok (v %)
1.	Mgr. Anhelina Voitko, PhD.	12.8.2025	1.9.2025	100

Zoznam emeritných vedeckých zamestnancov

	Meno s titulmi

Príloha A-2

Projekty riešené v organizácii

Medzinárodné projekty

Programy: COST

1.) Zrod slnečných sústav (*The Birth of Solar Systems*)

Zodpovedný riešiteľ:	Zuzana Kaňuchová
Trvanie projektu:	26.9.2023 / 25.9.2027
Evidenčné číslo projektu:	CA22133
Organizácia je koordinátorom projektu:	nie
Koordinátor:	University of Leeds, School of Physics and Astronomy
Počet spoluriešiteľských inštitúcií:	44 - Albánsko: 1, Rakúsko: 1, Belgicko: 2, Bulharsko: 1, Česko: 2, Nemecko: 2, Dánsko: 1, Španielsko: 2, Estónsko: 1, Fínsko: 1, Francúzsko: 2, Gruzínsko: 1, Grécko: 2, Maďarsko: 1, Švajčiarsko: 1, Írsko: 2, Izrael: 1, Taliansko: 2, Litva: 1, Lotyšsko: 1, Severné Macedónsko: 2, Holandsko: 2, Nórsko: 1, Poľsko: 2, Portugalsko: 2, Rumunsko: 1, Srbsko: 2, Slovensko: 2, Švédsko: 2
Čerpané financie:	0 Podpora medzinárodnej spolupráce z národných zdrojov: 5524 €

Dosiahnuté výsledky:

Práce:

MIFSUD, Duncan V. - KAŇUCHOVÁ, Zuzana - AURIACOMBE, Olivier - HERCZKU, Péter - QASIM, Danna - KOVÁCS, Sándor T. S. - RÁCZ, Richárd - SULIK, Béla - JUHÁSZ, Zoltán - RAJTA, István - VAJDA, István - BIRI, Sándor - MCCULLOUGH, Robert W. - IOPPOLO, Sergio** - RAUT, Ujjwal - MASON, Nigel. Cosmic ray irradiation of interstellar ices on sulfur-rich grains: A possible source of sulfur-bearing molecules. In ACS Earth and Space Chemistry, 2025, vol. 9, p. 1227-1242. (2024: 2.9 - IF, Q2 - JCR, 0.844 - SJR, Q2 - SJR). ISSN 2472-3452. Dostupné na: <https://doi.org/10.1021/acsearthspacechem.5c00036>

Hlavný zdroj síry v hustých medzihviezdnych oblakoch stále nie je známy, no dôkazy naznačujú, že ide o tuhú (žiaruvzdornú) síru na prachových zrnkách. Skúmali sme vznik anorganických zlúčenín síry pôsobením 1 MeV He⁺ žiarenia na ľady O₂, CO, CO₂, a H₂O namrazených na sírovom podklade. Vznikli SO₂, CS₂, OCS, a H₂SO₄, ale H₂S nebol detegovaný. Výsledky sú v súlade nedávnymi astronomickými pozorovaniami a podporujú teóriu vzniku SO₂ najmä energetickými (radiolytickými) procesmi, a vznik OCS neenergetickými reakciami.

Programy: Bilaterálne - iné

2.) Hľadanie ranej kometarynej aktivity a jej vývoj na základe archívnych dát (*Search for early cometary activity and its evolution based on archival data*)

Zodpovedný riešiteľ:	Marek Husárik
Trvanie projektu:	1.7.2025 / 30.6.2027
Evidenčné číslo projektu:	SK-FR-24-0014
Organizácia je koordinátorom projektu:	áno

Koordinátor: Astronomický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 1 - Francúzsko: 1
Čerpané financie: APVV: 1325 €

Dosiahnuté výsledky:

Počas pobytu sme diskutovali s francúzskymi kolegami o konkrétnej stratégii vyhľadania potenciálnych objektov/komét z archívnych prehliadok oblohy. Zamerali sme sa najprv na projekt ZTF. Z archívu sme vybrali pozorovania z obdobia posledných 4 rokov pre kométu C/2016 R2, ktorú sme vytipovali počas pobytu kolegov na Slovensku. Urobili sme prvotnú inšpekciu snímok, z ktorej vyplynulo, že nie všetky snímky budú podrobené ďalšej analýze. Pokusne sme fotometricky spracovali niekoľko súborov vo viacerých softvéroch za účelom porovnania výstupu.

3.) Komplexné štúdium komét s dlhou periódou v rámci pozemnej podpory budúcej vesmírnej misie „Comet Interceptor“ (*Comprehensive studies of long-period comets in the framework of ground-based support for the future space mission “Comet Interceptor”*)

Zodpovedný riešiteľ: Oleksandra Ivanova
Trvanie projektu: 1.1.2025 / 31.12.2026
Evidenčné číslo projektu: DAAD-SAS-2024-02
Organizácia je koordinátorom projektu: áno
Koordinátor: Astronomický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV-DAAD: 4000 €

Dosiahnuté výsledky:

Projekt zahŕňal výskumné a koordinačné aktivity zamerané na štúdium vzdialených komét a prípravu spoločných vedeckých výsledkov. Spoločné pracovné stretnutia sa uskutočnili počas pobytu členov tímu v Nemecku: 24.2.–1.3.2025 (Ivanova, Shubina, Voitko) a 17.–22.11.2025 (Voitko). Počas nich sa analyzovali pracovné stratégie, výber vedeckých cieľov, prebiehalo modelovanie vybraných komét a navrhovali sa vhodné interpretácie výsledkov. Spracovali sa nové aj archívne fotometrické, spektroskopické a polarimetrické dáta, osobitná pozornosť bola venovaná kométe C/2020 V2 (ZTF).

Referáty:

MARKKANEN, J. – IVANOVA, O. – SKOROV, Y. – SHUBINA, O. – VOITKO, A. – HUMES, O.: Light scattering by icy cometary dust particles. EPSC-DPS Joint Meeting 2025, Helsinki, Fínsko, 07.-12.09.2025.

IVANOVA, O. – MARKKANEN, J. – VOITKO, A. – KLESHCHONOK, V. – LUK'YANYK, I.: Dust Properties of Comet C/2020 V2 (ZTF) at beyond 4 au. EPSC-DPS Joint Meeting 2025, Helsinki, Fínsko, 07.-12.09.2025.

Programy: Mobility

4.) Charakterizácia vybraných exoplanetárnych sústav pomocou vesmírneho observatória CHEOPS (*Characterization of selected exoplanet systems with the CHEOPS space observatory*)

Zodpovedný riešiteľ: Zoltán Garai
Trvanie projektu: 1.1.2025 / 31.12.2026
Evidenčné číslo projektu: HAS-SAS-2024-3

Organizácia je áno
koordinátorom projektu:
Koordinátor: Astronomický ústav SAV, v. v. i.
Počet spoluriešiteľských 1 - Maďarsko: 1
inštitúcií:
Čerpané financie: SAV-Mob: 1500 €

Dosiahnuté výsledky:

Počas návštevy HUN-REN CSFK Konkoly Observatory sme študovali dotýkajúce sa exoplanéty, ktoré prechádzajú okrajom disku hviezdy. Na základe literatúry a on-line databáz bolo vybraných 23 takýchto exoplanét, ktoré boli modelované programom RMF. S hosťiteľom sme diskutovali prípravu spoločných článkov. Počas návštevy kolegu zo zahraničia sme prediskutovali aktuálne výsledky projektu a možnosti ďalšieho postupu, hlavne pokiaľ ide o objekt AU Mic. Pracovali sme ďalej na dvoch článkoch, ktoré budú čoskoro pripravené na odoslanie do astronomického časopisu A&A.

Referáty:

GARAI, Z. – BOLDOG, Á. – SZABÓ, Gy. M. – KRISKOVICS, L. – BORSATO, L. – GANDOLFI, D. – LENDL, M. – GUNTHER, M. N. – HEITZMANN, A. – WILSON, T. G. – BRANDEKER, A.: Dynamics of the AU Mic system as recently observed with CHEOPS. Detection and Dynamics of Exoplanets (DDE): Interplay Between Theory and Observations, Coimbra, Portugalsko, 07.-11.07.2025.

GARAI, Z. – BOLDOG, Á. – SZABÓ, Gy. M. – KRISKOVICS, L. – BORSATO, L. – GANDOLFI, D. – LENDL, M. – GUNTHER, M. N. – HEITZMANN, A. – WILSON, T. G. – BRANDEKER, A.: Dynamics of the AU Mic system as observed with CHEOPS. Tatra Astro Summit 2025, Stará Lesná, Slovensko, 22.-26.09.2025.

5.) Pátranie po príčinách zmien jasnosti hviezd (*Hunting for the nature of the stellar brightness variability*)

Zodpovedný riešiteľ: Martin Vaňko
Trvanie projektu: 1.1.2025 / 31.12.2026
Evidenčné číslo projektu: CAS-SAS-2024-01
Organizácia je áno
koordinátorom projektu:
Koordinátor: Astronomický ústav SAV, v. v. i.
Počet spoluriešiteľských 1 - Česko: 1
inštitúcií:
Čerpané financie: SAV-Mob: 1500 €

Dosiahnuté výsledky:

Z počiatočnej vzorky niekoľko stoviek objektov, sme vybrali 35 objektov, ktoré boli podrobené spektroskopickému a fotometrickému analýze. Po analýze svetelných kriviek a kriviek radiálnych rýchlostí sme zistili, že 51,4 % vykazuje variabilitu naznačujúcu prítomnosť ďalšieho telesa v sústave, 2,9 % bolo identifikovaných ako pulzátory, 25,7 % ako kandidáti na hviezdy so škvrnami a 20 % malo neistú klasifikáciu. Táto práca viedla k objavu 7 nových dvojhviezdnych sústav, 1 kandidáta na trojhviezdnu sústavu, 1 pulzujúcej hviezdy a 9 kandidátov na škvrnitú hviezdu. Spektroskopické pozorovania potvrdili spoľahlivosť predchádzajúcich klasifikácií pre väčšinu objektov, no tiež odhalili 2 prípady, kde sa klasifikácie líšili. Práca bola prijatá na publikovanie do časopisu A&A.

Programy: Horizont Európa

6.) Federation of Solar Data (*Federation of Solar Data*)

Zodpovedný riešiteľ: Aneta Barbara Wiśniewska
Trvanie projektu: 1.10.2024 / 30.9.2026
Evidenčné číslo projektu: 01-454
Organizácia je koordinátorom projektu: áno
Koordinátor: Astronomický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 7 - Belgicko: 1, Nemecko: 1, Španielsko: 1, Švajčiarsko: 1, Taliansko: 1, Nórsko: 1, Švédsko: 1
Čerpané financie: OSCARS: 11493 €

Dosiahnuté výsledky:

CoMP-S dáta sú teraz plne zosúladené so štandardom SOLARNET Metadata (v1.0). Prenosová tabuľka aj príslušné EPNcore kľúčové slová sú dokončené a archív dát bol úspešne prepojený so systémami SVO a SOLARNET pomocou vylepšeného softvéru DACHS a PostgreSQL. Samostatný webový server pre LSO náhľady a datasety je už tiež funkčný. Nasledujúcim krokom je finálna integrácia so SVO archívami.

Programy: Open Mobility

7.) 2D modelovanie prenosu žiarenia v protuberancii pozorovanej teleskopom SST (*2D Radiative Transfer Modelling of Prominence Observed by the SST*)

Zodpovedný riešiteľ: Július Koza
Trvanie projektu: 1.1.2025 / 31.12.2026
Evidenčné číslo projektu: Open-Mob-2024-09
Organizácia je koordinátorom projektu: áno
Koordinátor: Astronomický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 1 - Poľsko: 1
Čerpané financie: SAV-Mob: 3000 €

Dosiahnuté výsledky:

Referáty na zahraničných inštitúciách:

KOZA, J.: The Magnetism and Plasma Properties of Cool Off-limb Flare Loops, Solar Physics Seminar of the Astronomical Institute of the University of Wrocław, 17.11.2025.

VASHALOMIDZE, Z.: Infrared spectropolarimetry of a C-class solar flare footpoint plasma, Solar Physics Seminar of the Astronomical Institute of the University of Wrocław, 17.11.2025.

Domáce projekty

Programy: VEGA

1.) Extrasolárne planéty: extrémny prípad interagujúcich dvojhviezd (*Extrasolar planets: an extrem case of interacting binary stars*)

Zodpovedný riešiteľ: Ján Budaj
Trvanie projektu: 1.1.2022 / 31.12.2025

Evidenčné číslo projektu: VEGA 2/0031/22
Organizácia je áno
koordinátorom projektu:
Koordinátor: Astronomický ústav SAV, v. v. i.
Počet spoluriešiteľských 0
inštitúcií:
Čerpané financie: SAV-VEGA: 26953 €

Dosiahnuté výsledky:

Práce:

ADCA

BOLDOG, A.** - SZABÓ, Gy. M. - KRISKOVICS, Levente - BORSATO, Luca - GANDOLFI, Davide - LENDL, M. - GÜNTHER, M. N. - HEITZMANN, A. - WILSON, T. G. - BRANDEKER, A. - GARAI, Zoltán - ALIBERT, Y. - ALONSO, Roi - BÁRCZY, T. - BARRADO Y NAVASCUES, D. - BARROS, S. C. C. - BAUMJOHANN, W. - BENZ, W. - BILLOT, N. - BROEG, C. - COLLIER CAMERON, A. - CORREIA, A. C. M. - CSIZMADIA, S. - CUBILLOS, P. E. - DAVIES, M. B. - DELEUIL, M. - DELINE, A. - DEMANGEON, O. D. S. - DEMORY, B.-O. - DEREKAS, A. - EDWARDS, B. - EGGER, J. A. - EHRENREICH, D. - ERIKSON, A. - FORTIER, A. - FOSSATI, L. - FRIDLUND, M. - GAZEAS, Kosmas - GILLON, M. - GUEDEL, M. - GUTERMAN, P. - HELLING, Ch. - ISAAK, K. G. - KISS, L. L. - KOPP, E. - KORTH, J. - LAM, K. W. F. - LASKAR, J. - LECAVELIER DES ETANGS, A. - LUNTZER, A. - MAGRIN, D. - MANTOVAN, G. - MARAFATTO, L. - MAXTED, P. F. L. - MERÍN, B. - MORDASINI, C. - MUNARI, M. - NASCIMBENI, V. - OLOFSSON, G. - OTTENSAMER, Roland - PAGANO, Isabella - PALLÉ, Enric - PETER, G. - PIAZZA, D. - PIOTTO, G. - POLLACCO, Don - POPPENHAEGER, K. - QUELOZ, D. - RAGAZZONI, R. - RANDO, N. - RAUER, H. - RIBAS, Ignasi - RIEDER, M. - SANTOS, N. C. - SCANDARIATO, G. - SÉGRANSAN, D. - SIMON, A. E. - SMITH, A. M. S. - SOUSA, S. G. - SOUTHWORTH, R. - STALPORT, M. - SULIS, S. - UDRY, S. - ULMER-MOLL, S. - VAN GROOTEL, V. - VENTURINI, J. - VILLAVER, E. - WALTON, N. - ZINGALES, T. Transit-timing variations in the AU Mic system observed with CHEOPS. In *Astronomy and Astrophysics*, 2025, vol. 694, article no. A137, p. 1-15. (2024: 5.8 - IF, Q1 - JCR, 1.968 - SJR, Q1 - SJR). ISSN 0004-6361. Dostupné na: <https://doi.org/10.1051/0004-6361/202452699>

BORKOVITS, T. - RAPPAPORT, S. A. - MITNYAN, T. - GAGLIANO, R. - JACOBS, T. POWELL, B. P. - KOSTOV, V. B. - OMOHUNDRO, M. - KRISTIANSEN, M. H. - TERENCEV, I. - SCHWENGELER, H. M. - LACOURSE, D. - GARAI, Zoltán - PRIBULLA, Theodor - BIRÓ, I. B. - CSÁNYI, I. - DENCS, Z. - PÁL, A. Ten new, ultracompact triply eclipsing triple star systems. In *Astronomy and Astrophysics*, 2025, vol. 703, article no. A153, p. 1-25. (2024: 5.8 - IF, Q1 - JCR, 1.968 - SJR, Q1 - SJR). ISSN 0004-6361. Dostupné na: <https://doi.org/10.1051/0004-6361/202556942>

BUDAJ, Ján - BERNHARD, Klaus - JONES, David - MUNDAY, James. A swarm of dusty objects in orbit around the central star of planetary nebula WeSb1. In *Nature Astronomy*, 2025, vol. 9, no. 3, p. 380-392. (2024: 14.3 - IF, Q1 - JCR, 4.006 - SJR, Q1 - SJR). ISSN 2397-3366. Dostupné na: <https://doi.org/10.1038/s41550-024-02446-x>

GARAI, Zoltán** - KRENN, A. - CUBILLOS, P. E. - BRUNO, G. - SMITH, A. M. S. - WILSON, T. G. - BRANDEKER, A. - GÜNTHER, M. N. - HEITZMANN, A. - CARONE, L. - SINGH, V. - LENDL, M. - DEMANGEON, O. D. S. - ALIBERT, Y. - ALONSO, Roi - ASQUIER, J. - BÁRCZY, T. - BARRADO, D. - BARROS, S. C. C. - BAUMJOHANN, W. - BENZ, W. - BILLOT, N. - BORSATO, Luca - BROEG, C. - COLLIER CAMERON, A. - CORREIA, A. C. M. - CSIZMADIA, S. - DAVIES, M. B. - DELEUIL, M. - DELINE, A. - DEMORY, B.-O. -

DEREKAS, A. - EDWARDS, B. - EGGER, J. A. - EHRENREICH, D. - ERIKSON, A. - FARINATO, J. - FORTIER, A. - FOSSATI, L. - FRIDLUND, M. - GANDOLFI, Davide - GAZEAS, Kosmas - GILLON, M. - GUEDEL, M. - HELLING, Ch. - ISAAK, K. G. - KERSCHBAUM, F. - KISS, L. L. - KORTH, J. - LAM, K. W. F. - LASKAR, J. - LECAVELIER DES ETANGS, A. - MAGRIN, D. - MAXTED, P. F. L. - MERÍN, B. - MORDASINI, C. - NASCIMBENI, V. - OLOFSSON, G. - OTTENSAMER, Roland - PAGANO, Isabella - PALLÉ, Enric - PETER, G. - PIAZZA, D. - PIOTTO, G. - POLLACCO, Don - QUELOZ, D. - RAGAZZONI, R. - RANDO, N. - RAUER, H. - RIBAS, Ignasi - SANTOS, N. C. - SCANDARIATO, G. - SÉGRANSAN, D. - SIMON, A. E. - SOUSA, S. G. - STALPORT, M. - SULIS, S. - SZABÓ, Gy. M. - UDRY, S. - ULMER-MOLL, S. - VAN GROOTEL, V. - VENTURINI, J. - VILLAVER, E. - WALTON, N. - WOLF, S. - WOLTER, D. - ZINGALES, T. The KELT-7b atmospheric thermal-inversion conundrum revisited with CHEOPS, TESS, and additional data. In *Astronomy and Astrophysics*, 2025, vol. 700, article no. A5, p. 1-26. (2024: 5.8 - IF, Q1 - JCR, 1.968 - SJR, Q1 - SJR). ISSN 0004-6361. Dostupné na: <https://doi.org/10.1051/0004-6361/202452560>

KRUSHEVSKA, Viktoriia** - SHUGAROV, Sergey - PRIBULLA, Theodor - KUZNYETSOVA, Yuliana - PETROV, Mykola - ANDREEV, Maksim V. - PETRÍK, Karol - DUBOVSKÝ, Pavol. Analysis of photometric and spectroscopic observations of classical nova V615 Vul. In *Astrophysics and Space Science*, 2025, vol. 370, no. 10, article no. 113, p. 1-12. (2024: 1.5 - IF, Q3 - JCR, 0.378 - SJR, Q3 - SJR). ISSN 0004-640X. Dostupné na: <https://doi.org/10.1007/s10509-025-04498-5>

KURPAS, M. - DORSCH, M. - GEIER, Stefan - KUBÁTOVÁ, B. - VOS, Joris - CABEZAS, M. - KUNDRA, Emil - BUDAJ, Ján - DESHMUKH, K. - SCHAFFENROTH, Veronika - PELISOLI, Ingrid - DAWSON, H. - PRITZKULEIT, M. - MARYEVA, O. - KUBÁT, J. The twin red giant branch system BD+20 5391. A case study of low-mass double-core evolution. In *Astronomy and Astrophysics*, 2025, vol. 702, article no. A200, p. 1-8. (2024: 5.8 - IF, Q1 - JCR, 1.968 - SJR, Q1 - SJR). ISSN 0004-6361. Dostupné na: <https://doi.org/10.1051/0004-6361/202556201>

ORTIZ, J. L. - MORALES, N. - SICARDY, Bruno - ROMMEL, F. L. - BRAGA-RIBAS, F. - KILIC, Y. - FERNANDEZ-VALENZUELA, E. - RIZOS, Juan L. - MORGADO, B. - CATANI, L. - KRETLOW, M. - GÓMEZ-LIMÓN, J. M. - DESMARS, J. - SANTOS-SANZ, P. - ERECE, O. - AKOZ, I. - ULUC, K. - KASPI, Shai - MARCINIAK, Anna - TURCU, Vlad - MOLDOVAN, Dan - SONKA, A. - PETRESCU, Elisabeta - NEDELICU, A. - NEHIR, C. - MORALES, R. - DUFFARD, R. - SOUAMI, D. - THUILLOT, W. - CAMARGO, J. I. B. - VIEIRA-MARTINS, R. - LECACHEUX, Jean - ALVAREZ- CANDAL, Alvaro - ASSAFIN, M. - BENEDETTI-ROSSI, G. - GOMES-JUNIOR, A. R. - BOUFLEUR, R. C. - HOPP, U. - GOESSL, C. - SCHMIDT, M. - TAKEY, A. - ABDELAZIZ, A. M. - MIKUZ, H. - MOHAR, A. - SKVARČ, J. - SCHREURS, O. - LECOSSOIS, M. - JANIK, T. - BAGIRAN, M. N. - FIEK, S. - ALIS, S. - YELKENCI, F. K. - ACAR, M. - TAKACS, N. - SZAKÁTS, R. - PÁL, A. - MÁNEK, J. - DUMITRU, B. D. - GAZEAS, Kosmas - URSACHE, F. - NARDIELLO, D. - NASCIMBENI, V. - ROTTENBORN, M. - SONBAS, E. - OGLOZA, Waldemar - NASTASI, A. - LEONINI, S. - CONTI, M. - ROSI, P. - TINJACA RAMIREZ, L. M. - BELLIZI, L., astro - MARCHINI, Alessandro - VERNA, G. - SOLMAZ, A. - TEKES, M. - ANTUSZEWICZ, D. - PICA, D. - ILIC, D. - GROZDANOVIC, M. - STOIAN, L. - BACCI, Paolo - MAESTRIPIERI, Martina - KRANNICH, G. - BACCI, R. - ALTAN, M. - HORNOCH, Kamil - NESCI, R. - CIABATTARI, F. - SZABÓ, Gy. M. - KOVÁCS, J. - GARAI, Zoltán - BORA, Z. - ZELENY, P. - GAEHRKEN, B. - FIEDLER, M. - CURELARU, L. - ION, S. - SCHAEFER, R. - KUBÁNEK, J. - DELINCAK, P. - KALKAN, S. A high geometric albedo and small size for the Haumea cluster member (24835) 1995 SM55 determined from a stellar occultation and photometric observations. In *Astronomy and Astrophysics*, 2025, vol. 703, article no. A147, p. 1-13. (2024: 5.8 - IF, Q1 - JCR, 1.968 - SJR, Q1 - SJR). ISSN 0004-6361. Dostupné na: <https://doi.org/10.1051/0004-6361/202556498>

PARIMUCHA, Štefan - GABDEEV, Maksim M.** - MARKUS, Y. S. - VAŇKO, Martin - GAJDOŠ, P. Morphological classification of eclipsing binary stars using computer vision methods. In *Astronomy and Computing*, 2025, vol. 53, article no. 100998, p. 1-9. (2024: 1.8 - IF, Q3 - JCR, 0.647 - SJR, Q2 - SJR). ISSN 2213-1337.
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YU, H. - GARAI, Zoltán - CRETIGNIER, M. - SZABÓ, Gy. M. - AIGRAIN, S. - GANDOLFI, Davide - BRYANT, E. M. - CORREIA, A. C. M. - KLEIN, B. - BRANDEKER, A. - OWEN, J. E. - GÜNTHER, M. N. - WINN, Josh N. - HEITZMANN, A. - CEGLA, H. M. - WILSON, T. G. - GILL, S. - KRISKOVICS, Levente - BARRAGÁN, O. - BOLDOG, A. - NIELSEN, L. D. - BILLOT, N. - LAFARGA, M. - MEECH, A. - ALIBERT, Y. - ALONSO, Roi - BÁRCZY, T. - BARRADO, D. - BARROS, S. C. C. - BAUMJOHANN, W. - BAYLISS, D. - BENZ, W. - BERGOMI, M. - BORSATO, Luca - BROEG, C. - COLLIER CAMERON, A. - CSIZMADIA, S. - CUBILLOS, P. E. - DAVIES, M. B. - DELEUIL, M. - DELINE, A. - DEMANGEON, O. D. S. - DEMORY, B.-O. - DEREKAS, A. - DOYLE, L. - EDWARDS, B. - EGGER, J. A. - EHRENREICH, D. - ERIKSON, A. - FORTIER, A. - FOSSATI, L. - FRIDLUND, M. - GAZEAS, Kosmas - GILLON, M. - GUEDEL, M. - HELLING, Ch. - ISAAK, K. G. - KISS, L. L. - KORTH, J. - LAM, K. W. F. - LASKAR, J. - LECAVELIER DES ETANGS, A. - LENDL, M. - MAGRIN, D. - MAXTED, P. F. L. - MCCORMAC, James - MERÍN, B. - MORDASINI, C. - NASCIMBENI, V. - O'BRIEN, S. M. - OLOFSSON, G. - OTTENSAMER, Roland - PAGANO, Isabella - PALLÉ, Enric - PETER, G. - PIAZZA, D. - PIOTTO, G. - POLLACCO, Don - QUELOZ, D. - RAGAZZONI, R. - RANDO, N. - RAUER, H. - RIBAS, Ignasi - SANTOS, N. C. - SCANDARIATO, G. - SÉGRANSAN, D. - SIMON, A. E. - SMITH, A. M. S. - SOUSA, S. G. - SOUTHWORTH, R. - STALPORT, M. - STEINBERGER, M. - SULIS, S. - UDRY, S. - ULMER, B. - ULMER-MOLL, S. - VAN GROOTEL, V. - VENTURINI, J. - VILLAVER, E. - WALTON, N. - WHEATLEY, P. J. A possible misaligned orbit for the young planet AU Mic c. In *Monthly Notices of the Royal Astronomical Society*, 2025, vol. 536, no. 3, p. 2046-2063. (2024: 4.8 - IF, Q1 - JCR, 1.702 - SJR, Q1 - SJR). ISSN 0035-8711.
Dostupné na: <https://doi.org/10.1093/mnras/stae2655>

ADMA:

DZYGUNENKO, A. - BARANSKY, O. - KRUSHEVSKA, Viktoriia. Physical parameters of superhumps in five dwarf nova systems based on TESS observations. In *Kinematics and Physics of Celestial Bodies : space physics*, 2025, vol. 41, no. 5, p. 187-196. (2024: 0.7 - IF, Q4 - JCR, 0.3 - SJR, Q3 - SJR). ISSN 0884-5913. Dostupné na: <https://doi.org/10.3103/S0884591325050034>

2.) Fyzika slnečnej atmosféry: spektroskopia, spektro-polarimetria a numerické modelovanie javov v atmosfére Slnka. (*Physics of the solar atmosphere: spectroscopy, spectro-polarimetry, and numerical modelling of various phenomena occurring in the atmosphere of the Sun.*)

Zodpovedný riešiteľ:	Peter Gömöry
Trvanie projektu:	1.1.2024 / 31.12.2027
Evidenčné číslo projektu:	VEGA 2/0043/24
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Astronomický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV-VEGA: 29037 €

Dosiahnuté výsledky:

Práce:

ADCA

DE WILDE, M. - PIETROW, A. G. M.** - DRUETT, M. K. - PASTOR YABAR, A. - KOZA, Július - KONTOGIANNIS, Ioannis - ANDRIENKO, O. - BERLICKI, A. - BRUNVOLL, A. R. - DE LA CRUZ RODRIQUEZ, J. - THOEN FABER, J. - JOSHI, R. - KURIDZE, David - NÓBREGA-SIVERIO, D. - ROUPPE VAN DER VOORT, L. - RYBÁK, Ján - SCULLION, Eamon - SILVA, A. M. - VASHALOMIDZE, Zurab - VINCENTE ARÉVALO, A. - WISNIEWSKA, Aneta Barbara - YADAV, R. - ZAQARASHVILI, Teimuraz V. - ZBINDEN, J. - OYRE, E. S. Synthesizing Sun-as-a-star flare spectra from high-resolution solar observations. In *Astronomy and Astrophysics*, 2025, vol. 700, article no. A275, p. 1-21. (2024: 5.8 - IF, Q1 - JCR, 1.968 - SJR, Q1 - SJR). (2025 - WOS, SCOPUS, NASA ADS). ISSN 0004-6361. Dostupné na: <https://doi.org/10.1051/0004-6361/202554870> (Vega č. 2/0043/24 : Fyzika slnečnej atmosféry: spektroskopia, spektro-polarimetria a numerické modelovanie javov v atmosfére Slnka).

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MULLER, Axel - SANIGA, Metod - GIORGETTI, Alain** - HOLWECK, Frédéric - KELLEHER, Colm. A new heuristic approach for contextuality degree estimates and its four- to six-qubit portrayals. In *Journal of Physics A: Mathematical and Theoretical*, 2025, vol. 58, article no. 215302, p. 1-42. (2024: 2.1 - IF, Q2 - JCR, 0.659 - SJR, Q2 - SJR). ISSN 1751-8113. Dostupné na: <https://doi.org/10.1088/1751-8121/add22b> (Vega č. 2/0043/24 : Fyzika slnečnej atmosféry: spektroskopia, spektro-polarimetria a numerické modelovanie javov v atmosfére Slnka).

SANIGA, Metod - HOLWECK, Frédéric - KELLEHER, Colm - MULLER, Axel - GIORGETTI, Alain - DE BOUTRAY, Henri. Hexagons govern three-qubit contextuality. In *Quantum : the open journal for quantum science*, 2025, vol. 9, article no. 1601, p. 1-28. (2024: 5.4 - IF, Q1 - JCR, 2.526 - SJR, Q1 - SJR). ISSN 2521-327X. Dostupné na: <https://doi.org/10.22331/q-2025-01-20-1601> (Vega č. 2/0043/24 : Fyzika slnečnej atmosféry: spektroskopia, spektro-polarimetria a numerické modelovanie javov v atmosfére Slnka).

WISNIEWSKA, Aneta Barbara - ICHIMOTO, Kiyoshi - KOZA, Július - KONTOGIANNIS, Ioannis - PIETROW, A. G. M. - MURO, G. D. - GÖMÖRY, Peter. Wave period variability in a quiescent solar prominence. In *The Astrophysical Journal*, 2025, vol. 995, no. 1, article no. 17, p. 1-10. (2024: 5.4 - IF, Q1 - JCR, 2.038 - SJR, Q1 - SJR). (2025 - WOS, SCOPUS, NASA ADS). ISSN 0004-637X. Dostupné na: <https://doi.org/10.3847/1538-4357/ae1ef4> (Vega č. 2/0043/24 : Fyzika slnečnej atmosféry: spektroskopia, spektro-polarimetria a numerické modelovanie javov v atmosfére Slnka).

ADMB:

PRIKRYL, Paul - RUŠIN, Vojtech. Occurrence of tornado outbreaks influenced by solar wind-magnetosphere-ionosphere-atmosphere coupling. In *Advances in Science and Research*, 2025, vol. 22, p. 19-38. (2024: 0.338 - SJR, Q3 - SJR). ISSN 1992-0636. Dostupné na: <https://doi.org/10.5194/asr-22-19-2025> (Vega č. 2/0043/24 : Fyzika slnečnej atmosféry: spektroskopia, spektro-polarimetria a numerické modelovanie javov v atmosfére Slnka).

Referáty na medzinárodných konferenciách a zahraničných inštitúciách:

BENKO, M. - GÖMÖRY, P.: Structure of the sunspot magnetic field during a Solar flare. The Solar Polarization Workshop 11 (SPW11), Praha, Česko, 08.-12.9.2025. (poster)

KAŠPAROVÁ, J. – DUDÍK, J. – KARLICKÝ, M. – ZEMANOVÁ, A. – MASSA, P. – KRUCKER, S. – SCHULLER, F. - RYBÁK, J.: Radio, X-ray, and EUV signatures of internal and external reconnection of erupting flux rope. STIX Team Meeting 2025, Potsdam, Nemecko, 06.-09.10.2025.

KOZA, J. – KURIDZE, D.: Exploring Solar Flares: The Magnetism of Flare Loops, Tatra Astro Summit 2025, Stará Lesná, Slovensko, 22.-26.09.2025.

LOMINEISHVILI, S. - GÖMÖRY, P. - VASHALOMIDZE, Z.: Kink instability of partially ionized plasma jets in the solar atmosphere I. Aligned Jets. Waves and Instabilities in the Solar Atmosphere (WISA), Rím, Taliansko, 22.-26.09.2025.

MULLER, A. – GIORGETTI, A. – SANIGA, M.: Generation of state-independent contextuality proofs from hypergraphs. Journées Informatique Quantique 2025, Gif-sur-Yvette, Francúzsko, 28.-29.01.2025.

PRIKRYL, P. – RUŠIN, V.: Occurrence of tornado outbreaks in the context of solar wind coupling to magnetosphere-ionosphere-atmosphere. 2025 CAP Congress, Saskatoon, Kanada, 09.-13.06.2025.

PRIKRYL, P. – RUŠIN, V.: Interconnection between Space Weather and Tropospheric Weather: Occurrence of Large Tornado Outbreaks in the Context of Solar Wind Coupling to Magnetosphere-Ionosphere-Atmosphere. The AGU Annual Meeting, Extreme Events: Observations and Modeling. New Orleans, Louisiana, USA, 15.-19.12.2025.

VASHALOMIDZE, Z. – ZAQARASHVILI, T. – BENKO, M. – KURIDZE, D. - GÖMÖRY, P. – RYBÁK, J. – COLLADOS, M. – DENKER, C. – VERMA, M. – QUINTERO-NODA, C. – KUCKEIN, C.: Infrared spectropolarimetry of a C-class solar flare footpoint plasma. Waves and Instabilities in the Solar Atmosphere (WISA), Rím, Taliansko, 22.-26.09.2025.

WIŚNIEWSKA, A. – ICHIMOTO, K. – KOZA, J. – KONTOGIANNIS, I. – PIETROW, A.G. – MURO, G.D. – GÖMÖRY, P.: Propagating Waves Inside a Quiescent Prominence. Japan Geoscience Union Meeting 2025, Makuhari Messe, Chiba, Japonsko, 25.-30.05.2025. (online)

WIŚNIEWSKA, A. – ICHIMOTO, K. – KOZA, J. – KONTOGIANNIS, I. – PIETROW, A.G. – MURO, G.D. – GÖMÖRY, P.: Wavelet-Based Method for the Analysis of Propagating Waves in a Solar Prominence. European Space Weather Week 25, Ume?, Švédsko, 27.-31.10.2025.

WIŚNIEWSKA, A.: OSCARS Funded Project Federation of solar Data. European Space Weather Week 25, Ume?, Švédsko, 27.-31.10.2025.

WIŚNIEWSKA, A. – ICHIMOTO, K. – KOZA, J. – KONTOGIANNIS, I. – PIETROW, A.G. – MURO, G.D. – GÖMÖRY, P.: Wave Period Variability in a Quiescent Solar Prominence, ESPOS, 11.12.2025. (online seminár)

Vyžiadané prednášky na významných vedeckých inštitúciách:

KOZA, J.: The Magnetism and Plasma Properties of Cool Off-limb Flare Loops. Solar Physics Seminar of the Astronomical Institute of the University of Wrocław, Wrocław, Poľsko, 17.11.2025.

RYBÁK, J.: LSO/CoMP-S instrument: polarimetric calibration - preliminary results. UCoMP Science Informal Lunch Discussion, HAO/NCAR, Boulder, USA, 20.05.2025. (online)

RYBÁK, J.: Lomnický štít Observatory: last 3 years – 9/2022-7/2025. Kanzelhöhe Observatory for solar and environmental research, Treffen, Austria, 19.08.2025.

RYBÁK, J.: LSO/CoMP-S instrument: polarimetric calibration - preliminary results. Kanzelhöhe Observatory for solar and environmental research, Treffen, Austria, 19.08.2025.

3.) Človek ako kozmický fenomén z multidisciplinárnej perspektívy (*Humans as a Cosmic Phenomenon from a Multidisciplinary Perspective*)

Zodpovedný riešiteľ: Mária Hajduková
Trvanie projektu: 1.1.2025 / 31.12.2028
Evidenčné číslo projektu: VEGA 1/0089/25
Organizácia je koordinátorom projektu: nie
Koordinátor: Filozofická fakulta Univerzity Komenského v Bratislave
Počet spoluriešiteľských inštitúcií: 4 - Slovensko: 4
Čerpané financie: SAV-VEGA: 1194 €

Dosiahnuté výsledky:

Prednáška na medzinárodnom podujatí:

Hajduková, M.: From meteor phenomena to the body's origin. International Space Science Institute Meeting, ISSI #23-580, Bern, Switzerland, 10.-13.6.2025

Práca BEF:

PAULECH, Tomáš, HAJDUKOVÁ, Mária, NAGY, Roman. Výskum medzihviezdnych objektov v Slnecnej sústave a jeho spoločensko-etický rozmer. In Acta Historica Posoniensia - Interakcie človeka v multidisciplinárnej perspektíve. Zostavil Miroslav Daniš. Filozofická fakulta UK Bratislava, Hlbiny, 2025

4.) Fyzikálne a dynamické vlastnosti malých telies v Slnecnej sústave ako indikátory ich pôvodu a evolúcie (*Physical and dynamical properties of Solar system small bodies as indicators of their origin and evolution*)

Zodpovedný riešiteľ: Marek Husárik
Trvanie projektu: 1.1.2022 / 31.12.2025
Evidenčné číslo projektu: VEGA 2/0059/22
Organizácia je koordinátorom projektu: áno
Koordinátor: Astronomický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV-VEGA: 13646 €

Dosiahnuté výsledky:

Práce:

ADCA

KRUGLY, Yuriy N.** - GOLUBOV, Oleksiy - KYRYLENKO, Ihor - LIPATOVA, Veronika - BELSKAYA, Irina - SHEVCHENKO, Vasilij - SLYUSAREV, Ivan - INASARIDZE, Raguli - EHGAMBERDIEV, Shuhret - IVANOVA, Oleksandra - HUSÁRIK, Marek - KARPOV, Sergey - HESTROFFER, Daniel. Contact binary asteroid (153201) 2000 WO107: Rotation, shape model, and density. In Astronomy and Astrophysics, 2025, vol. 702, article no. A170, p. 1-13. (2024: 5.8 - IF, Q1 - JCR, 1.968 - SJR, Q1 - SJR). ISSN 0004-6361. Dostupné na: <https://doi.org/10.1051/0004-6361/202452553> (APVV-19-0072 : Vzťah medzi farbou a polarizáciou v kométach: kľúče k pochopeniu mikrofyzikálnych vlastností kometárneho prachu a mechanizmov jeho úniku. VEGA

2/0059/22 : Fyzikálne a dynamické vlastnosti malých telies v Slnčnej sústave ako indikátory ich pôvodu a evolúcie.)

MINKER, Kate** - CARRY, Benoit - VACHIER, Frédéric - SCHEIRICH, Petr - PRAVEC, Petr - MÜLLER, T. - MOÓR, A. - ARCIDIACONO, C. - CONRAD, A. - VEILLET, C. - JACOBSON, S. A. - MARSSET, Michael - MERLINE, W. J. - TAMBLYN, P. - BROWN, M. E. - PRAY, Donald P. - MONTAIGUT, R. - LEROY, Arnaud - GILLIER, C. - KUŠNIRÁK, Peter - HORNOCH, Kamil - HUSÁRIK, Marek - BENISHEK, Vladimir - COONEY, W. - GROSS, John - TERRELL, Dirk - JEHIN, Emmanuel - VILÁGI, Jozef - GAJDOŠ, Štefan - CHIorny, Vasilij - CHRISTMANN, Bruno - BRINSFIELD, James - DUMAS, C. - ENKE, B. L. - DURDA, D. D. - CHRISTOU, J. C. - GRUNDY, Will M. - CLOSE, Laird M. - PORTER, S. B. Orbits of very distant asteroid satellites. In *Astronomy and Astrophysics*, 2025, vol. 698, article no. A136, p. 1-18. (2024: 5.8 - IF, Q1 - JCR, 1.968 - SJR, Q1 - SJR). ISSN 0004-6361. Dostupné na: <https://doi.org/10.1051/0004-6361/202451124> (VEGA 2/0059/22 : Fyzikálne a dynamické vlastnosti malých telies v Slnčnej sústave ako indikátory ich pôvodu a evolúcie.)

SANTANA-ROS, Toni** - IVANOVA, Oleksandra - MYKHAILOVA, S. - ERASMUS, N. - KAMIŃSKI, Krzysztof - OSZKIEWICZ, Dagmara - KWIATKOWSKI, Tomasz - HUSÁRIK, Marek - NGWANE, T. S. - PENTTILA, Antti. Temporal evolution of the third interstellar comet 3I/ATLAS: Spin, color, spectra, and dust activity. In *Astronomy and Astrophysics*, 2025, vol. 702, article no. L3, p. 1-8. (2024: 5.8 - IF, Q1 - JCR, 1.968 - SJR, Q1 - SJR). ISSN 0004-6361. Dostupné na: <https://doi.org/10.1051/0004-6361/202556717> (VEGA 2/0059/22 : Fyzikálne a dynamické vlastnosti malých telies v Slnčnej sústave ako indikátory ich pôvodu a evolúcie.)

VOITKO, Anhelina - KLESHCHONOK, Valerii - SHUBINA, Olena - IVANOVA, Oleksandra - HUSÁRIK, Marek. Photometric study of eight distant comets. In *Monthly Notices of the Royal Astronomical Society*, 2025, vol. 538, no. 3, p. 1609-1627. (2024: 4.8 - IF, Q1 - JCR, 1.702 - SJR, Q1 - SJR). ISSN 0035-8711. Dostupné na: <https://doi.org/10.1093/mnras/staf400> (APVV-19-0072 : Vzťah medzi farbou a polarizáciou v kométach: kľúče k pochopeniu mikrofyzikálnych vlastností kometárneho prachu a mechanizmov jeho úniku. VEGA 2/0059/22 : Fyzikálne a dynamické vlastnosti malých telies v Slnčnej sústave ako indikátory ich pôvodu a evolúcie. 09I03-03-V01-00001 : Štipendiá pre excelentných výskumníkov ohrozených vojnovým konfliktom na Ukrajine - O. Shubina.)

IVANOVA, Oleksandra** - LUKYANYK, Igor - MORENO, Fernando - BAUER, James M. - ROSENBUSH, Vera. Photometry and spectroscopy of distant comet C/2014 N3 (NEOWISE). In *Astronomy and Astrophysics*, 2025, vol. 697, article no. A188, p. 1-11. (2024: 5.8 - IF, Q1 - JCR, 1.968 - SJR, Q1 - SJR). ISSN 0004-6361. Dostupné na: <https://doi.org/10.1051/0004-6361/202453286> (APVV-19-0072 : Vzťah medzi farbou a polarizáciou v kométach: kľúče k pochopeniu mikrofyzikálnych vlastností kometárneho prachu a mechanizmov jeho úniku. VEGA 2/0059/22 : Fyzikálne a dynamické vlastnosti malých telies v Slnčnej sústave ako indikátory ich pôvodu a evolúcie.)

KAŇUCHOVÁ, Zuzana* - BORCHERT, L. E.* - MIFSUD, Duncan V. - TRASPAS MUIÑA, Alejandra - WILSON, A. M. - PROCHAL, M. - JONES, N. C. - HOFFMANN, S. V. - CASSIDY, A. - HORNEKAER, Liv - MASON, Nigel - STRAZZULLA, Giovanni - IOPPOLO, Sergio**. Vacuum ultraviolet photoabsorption spectroscopy of space-related ices: Formation of (cyano)polyynes in 1 keV electron irradiated hydrocarbon-rich ices. In *Astronomy and Astrophysics*, 2025, vol. 700, article no. A115, p. 1-19. (2024: 5.8 - IF, Q1 - JCR, 1.968 - SJR, Q1 - SJR). ISSN 0004-6361. Dostupné na: <https://doi.org/10.1051/0004-6361/202554933> (VEGA 2/0059/22 : Fyzikálne a dynamické vlastnosti malých telies v Slnčnej sústave ako indikátory ich pôvodu a evolúcie.)

MIFSUD, Duncan V. - KAŇUCHOVÁ, Zuzana - AURIACOMBE, Olivier - HERCZKU, Péter - QASIM, Danna - KOVÁCS, Sándor T. S. - RÁCZ, Richárd - SULIK, Béla - JUHÁSZ, Zoltán - RAJTA, István - VAJDA, István - BIRI, Sándor - MCCULLOUGH, Robert W. - IOPPOLO, Sergio - RAUT, Ujjwal - MASON, Nigel. Cosmic ray irradiation of interstellar ices on sulfur-rich grains: A possible source of sulfur-bearing molecules. In ACS Earth and Space Chemistry, 2025, vol. 9, p. 1227-1242. (2024: 2.9 - IF, Q2 - JCR, 0.844 - SJR, Q2 - SJR). ISSN 2472-3452. Dostupné na: <https://doi.org/10.1021/acsearthspacechem.5c00036> (VEGA 2/0059/22 : Fyzikálne a dynamické vlastnosti malých telies v Slnecnej sústave ako indikátory ich pôvodu a evolúcie. CA22133 : Zrod slnečných sústav.)

ADMB

GRITSEVICH, Maria - NISSINEN, M. - RYSKE, J. - CASTRO-TIRADO, A.J. - PÉREZ-GARCIA, I. - WESOŁOWSKI, M. - TRIGO-RODRÍGUEZ, J. M. - PEÑA-ASENSIO, E. - BOACA, I. - PRYSTAVSKI, T. - HUSÁRIK, Marek - IVANOVA, Oleksandra - SANCHEZ, A. - LLENAS, J. M. Cometary outbursts and evolution of ejected particles. In Revista Mexicana de Astronomia y Astrofísica: Serie de Conferencias, 2025, vol.59, p. 93-100. (2024: 0.118 - SJR). ISSN 1405-2059. Dostupné na: <https://doi.org/10.22201/ia.14052059p.2025.59.18> (VEGA 2/0009/22 : Dynamická verzus generická príbuznosť v skupinách malých telies v Slnecnej sústave. VEGA 2/0059/22 : Fyzikálne a dynamické vlastnosti malých telies v Slnecnej sústave ako indikátory ich pôvodu a evolúcie.)

GII

BENISHEK, Vladimir - PRAVEC, Petr - HUSÁRIK, Marek - PIKLER, Michal - ČERVÁK, Gabriel - RUOCCO, Nello. (3255) Tholen. In Central Bureau Electronic Telegrams, 2025, no. 5505, p. 1. Názov prebraný z titulnej obrazovky. Dostupné na internete: <http://www.cbat.eps.harvard.edu/iau/cbet/005500/CBET005505.txt>

5.) Dynamická verzus generická príbuznosť v skupinách malých telies v Slnecnej sústave (Dynamical versus generic relationship in the groups of small bodies in the Solar System)

Zodpovedný riešiteľ:	Luboš Neslušan
Trvanie projektu:	1.1.2022 / 31.12.2025
Evidenčné číslo projektu:	VEGA 2/0009/22
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Astronomický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV-VEGA: 15495 €

Dosiahnuté výsledky:

Práce:

ADCA

BARGHINI, D.** - ĎURIŠOVÁ, Silvia** - KOTEN, Pavel - BERTAINA, M. - GARDIOL, D. - HAJDUKOVÁ, Mária, Jr.**. The Kresaks'; diagram: Hyperbolic meteoroid orbits and their confidence level. In Astronomy and Astrophysics, 2025, vol. 701, article no. A135, p. 1-15. (2024: 5.8 - IF, Q1 - JCR, 1.968 - SJR, Q1 - SJR). ISSN 0004-6361. Dostupné na: <https://doi.org/10.1051/0004-6361/202554274>

JOPEK, Tadeusz J. - NESLUŠAN, Luboš - ĎURIŠOVÁ, Silvia - RUDAWSKA, Regina - HAJDUKOVÁ, Mária, Jr.**. Identifying misclassified meteor showers in the IAU MDC database : Reclassification proposal. In Astronomy and Astrophysics, 2025, vol. 699, article no. A238, p. 1-30.

(2024: 5.8 - IF, Q1 - JCR, 1.968 - SJR, Q1 - SJR). ISSN 0004-6361. Dostupné na: <https://doi.org/10.1051/0004-6361/202554647>

KOVÁČOVÁ, Martina - NESLUŠAN, Luboš - TOMKO, Dušan. Search for the true parent body of the Phoenicid meteor shower. In The Astronomical Journal, 2025, vol. 169, no. 6, article no. 331, p. 1-11. (2024: 5.1 - IF, Q1 - JCR, 2.229 - SJR, Q1 - SJR). ISSN 0004-6256. Dostupné na: <https://doi.org/10.3847/1538-3881/adcf90>

ADEB

ĎURIŠOVÁ, Silvia - HAJDUKOVÁ, Mária, Jr.. Hyperbolic meteoroid orbits from meteor observation and interstellar meteoroids. In WGN : Journal of the international meteor organization, 2025, vol. 53, no. 1, p. 33-36. ISSN 1016-3115.

BDE

NESLUŠAN, Luboš - RUDAWSKA, Regina - HAJDUKOVÁ, Mária, Jr. - JAKUBÍK, Marián - ĎURIŠOVÁ, Silvia - JOPEK, Tadeusz J. A short report of news in the IAU Meteor Data Center in 2024. In eMetN Meteor Journal, 2025, vol. 10, no. 1, p. 2-4. ISSN 3041-4261. Dostupné na internete: <https://www.emeteornews.net>

NESLUŠAN, Luboš - JAKUBÍK, Marián. New version of the orbital IAU Meteor Data Center database (Version 2025). In eMetN Meteor Journal, 2025, vol. 10, no. 4, p. 217. ISSN 3041-4261. Dostupné na internete: <https://www.emeteornews.net>

Prednášky:

NESLUŠAN, L.: Newly discovered features of relativistic compact objects. 26th SIGRAV Conference on General Relativity and Gravitation (SIGRAV 2025), Milano, Taliansko, 8.-12.9.2025.

NESLUŠAN, L.: Newly discovered property of relativistic gravity in the interior of compact objects. Tatra Astro Summit 2025, Stará Lesná, Slovensko, 22.-26.9.2025.

6.) Kataklyzmatické premenné a symbiotické hviezdy ako sondy procesu akrécie, výbuchov a vývoja dvojhviezd (*Cataclysmic variables and symbiotic stars as probes of the accretion process, explosions and binary evolution*)

Zodpovedný riešiteľ:	Augustín Skopal
Trvanie projektu:	1.1.2025 / 31.12.2028
Evidenčné číslo projektu:	2/0003/25
Organizácia je	áno
koordinátorom projektu:	
Koordinátor:	Astronomický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV-VEGA: 7708 €

Dosiahnuté výsledky:

Práce:

ADCA

KRUSHEVSKA, Viktoriia** - SHUGAROV, Sergey - PRIBULLA, Theodor - KUZNYETSOVA, Yuliana - PETROV, Mykola - ANDREEV, Maksim V. - PETRÍK, Karol - DUBOVSKÝ, Pavol. Analysis of photometric and spectroscopic observations of classical nova V615 Vul. In Astrophysics and Space Science, 2025, vol. 370, no. 10, article no. 113, p. 1-12. (2024: 1.5 - IF, Q3 - JCR, 0.378 - SJR, Q3 - SJR). ISSN 0004-640X. Dostupné na: <https://doi.org/10.1007/s10509-025-04498-5>

TARASENKOV, Alexander – SHUGAROV, Sergey – IKONNIKOVA, Natalia – BURLAK, Marina – NAZAROV, Sergey – DUFOER, Sjoerd. Photometric analysis of TCP J20171288+1156589 - WZ Sge type dwarf nova with delayed ordinary superhumps emergence. In Astrophysics and Space Science, 2025, vol. 370, article no. 133, 11pp

(2024: 1.5 - IF, Q3 - JCR, 0.378 - SJR, Q3 - SJR). ISSN 0004-640X. Dostupné na: <https://doi.org/10.1007/s10509-025-04525-5>

SKOPAL, Augustín - SHAGATOVA, Natalia. V1047 Cen: The first Z And-type outburst observed in the classical nova binary. In The Astrophysical Journal, 2025, vol. 983 no. 2, article no. 148, p. 1-11. (2024: 5.4 - IF, Q1 - JCR, 2.038 - SJR, Q1 - SJR). ISSN 0004-637X. Dostupné na: <https://doi.org/10.3847/1538-4357/adc0f6>

GII

MUNARI, Ulisse - DALLAPORTA, Sergio - SHUGAROV, Sergey - GOLYSHEVA, Polina Yu. KT Eri (Nova Eri 2009) on a steep rise toward record brightness and a new state. In The Astronomer's Telegram, 2025, no. 17125, p. 1.

Dostupné na internete: <https://www.astronomerstelegram.org/>

SKOPAL, Augustin - SHUGAROV, Sergey – TATARNIKOV, Alexander - TATARNIKOV, Andrey - DODIN, Alexander – TARASENKOV, Alexander. Photometric and spectroscopic follow-up observations of AT 2025abao: A luminous symbiotic nova in M31? In The Astronomer's Telegram, 2025, no. 17476, p. 1.

Dostupné na internete: <https://www.astronomerstelegram.org/?read=17476>

Referáty:

SKOPAL, A.: Z And-type outbursts in accreting white dwarf binaries. Tatra Astro Summit 2025, Tatranská Lomnica, Slovenská republika, 22. - 26.09, 2025 (,keynote' referát).

SHUGAROV, S. – SKRIPNIKOV, V. – ZUBAREVA, A. – METLOV, V. Photometric investigation of AT2023qql, the optical counterpart of X-ray Nova. The Golden Age of Cataclysmic Variables and Related Objects – VII, Palermo, Italy, 1- 6.09.2025 (pozvaný referát).

KRUSHEVSKA, V. – SHUGAROV, S. – PRIBULLA, T. Optical investigation of the classical nova V615 Vul: determination of the main physical characteristics. The Golden Age of Cataclysmic Variables and Related Objects – VII, Palermo, Italy, 1- 6.09.2025 (poster).

Programy: APVV

7.) Výskum vzájomných vzťahov medzi malými telesami ako kľúč k pochopeniu formovania a evolúcie Slnecnej sústavy (*Investigation of the relationships between small bodies as the key to understanding the formation and evolution of the Solar System*)

Zodpovedný riešiteľ:	Oleksandra Ivanova
Trvanie projektu:	1.9.2025 / 31.8.2029
Evidenčné číslo projektu:	APVV-24-0076
Organizácia je	áno
koordinátorom projektu:	
Koordinátor:	Astronomický ústav SAV, v. v. i.
Počet spoluriešiteľských	0
inštitúcií:	
Čerpané financie:	APVV: 27510 €

Dosiahnuté výsledky:

V sledovanom období bol odoslaný na publikáciu vedecký článok o prachovej aktivite a morfológii

kométy 12P/Pons–Brooks. Pozorovania ukázali významnú evolúciu prachovej aktivity, zmeny jasnosti a farebných indexov. Kométa prejavila unikátny tvar komy a chaotické otáčanie, emisné čiary CN, C₂ a C₃ zodpovedali typickému zloženiu komét Jupiterovej rodiny. Do projektu bol prijatý doktorand Leonid Shakun, ktorý bude pracovať na téme projektu. Pozorovania prebiehali na veľkých svetových teleskopoch vrátane SALT, Himalayan Chandra, Sanglokh a teleskopov na Skalnatom plese; v rámci projektu sa tiež sledovala medzihviezdna kométa 3I/ATLAS.

8.) Od interagujúcich hviezd k exoplanétam (*From Interacting Binaries to Exoplanets*)

Zodpovedný riešiteľ: Theodor Pribulla
Trvanie projektu: 1.7.2021 / 30.6.2025
Evidenčné číslo projektu: APVV-20-0148
Organizácia je koordinátorom projektu: áno
Koordinátor: Astronomický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 2 - Slovensko: 2
Čerpané financie: APVV: 7958 €

Dosiahnuté výsledky:

Práce:

ADCA

BOLDOG, A.** - SZABÓ, Gy. M. - KRISKOVICS, Levente - BORSATO, Luca - GANDOLFI, Davide - LENDL, M. - GÜNTHER, M. N. - HEITZMANN, A. - WILSON, T. G. - BRANDEKER, A. - GARAI, Zoltán - ALIBERT, Y. - ALONSO, Roi - BÁRCZY, T. - BARRADO Y NAVASCUES, D. - BARROS, S. C. C. - BAUMJOHANN, W. - BENZ, W. - BILLOT, N. - BROEG, C. - COLLIER CAMERON, A. - CORREIA, A. C. M. - CSIZMADIA, S. - CUBILLOS, P. E. - DAVIES, M. B. - DELEUIL, M. - DELINE, A. - DEMANGEON, O. D. S. - DEMORY, B. - O. - DEREKAS, A. - EDWARDS, B. - EGGER, J. A. - EHRENREICH, D. - ERIKSON, A. - FORTIER, A. - FOSSATI, L. - FRIDLUND, M. - GAZEAS, Kosmas - GILLON, M. - GUEDEL, M. - GUTERMAN, P. - HELLING, Ch. - ISAAK, K. G. - KISS, L. L. - KOPP, E. - KORTH, J. - LAM, K. W. F. - LASKAR, J. - LECAVELIER DES ETANGS, A. - LUNTZER, A. - MAGRIN, D. - MANTOVAN, G. - MARAFATTO, L. - MAXTED, P. F. L. - MERÍN, B. - MORDASINI, C. - MUNARI, M. - NASCIMBENI, V. - OLOFSSON, G. - OTTENSAMER, Roland - PAGANO, Isabella - PALLÉ, Enric - PETER, G. - PIAZZA, D. - PIOTTO, G. - POLLACCO, Don - POPPENHAEGER, K. - QUELOZ, D. - RAGAZZONI, R. - RANDO, N. - RAUER, H. - RIBAS, Ignasi - RIEDER, M. - SANTOS, N. C. - SCANDARIATO, G. - SÉGRANSAN, D. - SIMON, A. E. - SMITH, A. M. S. - SOUSA, S. G. - SOUTHWORTH, R. - STALPORT, M. - SULIS, S. - UDRY, S. - ULMER-MOLL, S. - VAN GROOTEL, V. - VENTURINI, J. - VILLAVER, E. - WALTON, N. - ZINGALES, T. Transit-timing variations in the AU Mic system observed with CHEOPS. In *Astronomy and Astrophysics*, 2025, vol. 694, article no. A137, p. 1-15. (2024: 5.8 - IF, Q1 - JCR, 1.968 - SJR, Q1 - SJR). ISSN 0004-6361. Dostupné na: <https://doi.org/10.1051/0004-6361/202452699>

BORKOVITS, T. - RAPPAPORT, S. A. - MITNYAN, T. - GAGLIANO, R. - JACOBS, T. POWELL, B. P. - KOSTOV, V. B. - OMOHUNDRO, M. - KRISTIANSEN, M. H. - TERENCEV, I. - SCHWENGELER, H. M. - LACOURSE, D. - GARAI, Zoltán - PRIBULLA, Theodor - BIRÓ, I. B. - CSÁNYI, I. - DENCs, Z. - PÁL, A. Ten new, ultracompact triply eclipsing triple star systems. In *Astronomy and Astrophysics*, 2025, vol. 703, article no. A153, p. 1-25. (2024: 5.8 - IF, Q1 - JCR, 1.968 - SJR, Q1 - SJR). ISSN 0004-6361. Dostupné na: <https://doi.org/10.1051/0004-6361/202556942>

BUDAJ, Ján - BERNHARD, Klaus - JONES, David - MUNDAY, James. A swarm of dusty objects in orbit around the central star of planetary nebula WeSb1. In *Nature Astronomy*, 2025, vol. 9, no. 3, p. 380-392. (2024: 14.3 - IF, Q1 - JCR, 4.006 - SJR, Q1 - SJR). ISSN 2397-3366. Dostupné na: <https://doi.org/10.1038/s41550-024-02446-x>

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KRUSHEVSKA, Viktoriia** - SHUGAROV, Sergey - PRIBULLA, Theodor - KUZNYETSOVA, Yuliana - PETROV, Mykola - ANDREEV, Maksim V. - PETRÍK, Karol - DUBOVSKÝ, Pavol. Analysis of photometric and spectroscopic observations of classical nova V615 Vul. In *Astrophysics and Space Science*, 2025, vol. 370, no. 10, article no. 113, p. 1-12. (2024: 1.5 - IF, Q3 - JCR, 0.378 - SJR, Q3 - SJR). ISSN 0004-640X. Dostupné na: <https://doi.org/10.1007/s10509-025-04498-5>

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- KRETLOW, M. - GÓMEZ-LIMÓN, J. M. - DESMARS, J. - SANTOS-SANZ, P. - ERECE, O. - AKOZ, I. - ULUC, K. - KASPI, Shai - MARCINIAK, Anna - TURCU, Vlad - MOLDOVAN, Dan - SONKA, A. - PETRESCU, Elisabeta - NEDELCU, A. - NEHIR, C. - MORALES, R. - DUFFARD, R. - SOUAMI, D. - THUILLOT, W. - CAMARGO, J. I. B. - VIEIRA-MARTINS, R. - LECACHEUX, Jean - ALVAREZ-CANDAL, Alvaro - ASSAFIN, M. - BENEDETTI-ROSSI, G. - GOMES-JUNIOR, A. R. - BOUFLEUR, R. C. - HOPP, U. - GOESSL, C. - SCHMIDT, M. - TAKEY, A. - ABDELAZIZ, A. M. - MIKUZ, H. - MOHAR, A. - SKVARČ, J. - SCHREURS, O. - LECOSSOIS, M. - JANIK, T. - BAGIRAN, M. N. - FIEK, S. - ALIS, S. - YELKENCI, F. K. - ACAR, M. - TAKACS, N. - SZAKÁTS, R. - PÁL, A. - MÁNEK, J. - DUMITRU, B. D. - GAZEAS, Kosmas - URSACHE, F. - NARDIELLO, D. - NASCIMBENI, V. - ROTTENBORN, M. - SONBAS, E. - OGLOZA, Waldemar - NASTASI, A. - LEONINI, S. - CONTI, M. - ROSI, P. - TINJACA RAMIREZ, L. M. - BELLIZI, L., astro - MARCHINI, Alessandro - VERNA, G. - SOLMAZ, A. - TEKES, M. - ANTUSZEWICZ, D. - PICA, D. - ILIC, D. - GROZDANOVIC, M. - STOIAN, L. - BACCI, Paolo - MAESTRIPIERI, Martina - KRANNICH, G. - BACCI, R. - ALTAN, M. - HORNOCH, Kamil - NESCI, R. - CIABATTARI, F. - SZABÓ, Gy. M. - KOVÁCS, J. - GARAI, Zoltán - BORA, Z. - ZELENY, P. - GAEHRKEN, B. - FIEDLER, M. - CURELARU, L. - ION, S. - SCHAEFER, R. - KUBÁNEK, J. - DELINCAK, P. - KALKAN, S. A high geometric albedo and small size for the Haumea cluster member (24835) 1995 SM55 determined from a stellar occultation and photometric observations. In *Astronomy and Astrophysics*, 2025, vol. 703, article no. A147, p. 1-13. (2024: 5.8 - IF, Q1 - JCR, 1.968 - SJR, Q1 - SJR). ISSN 0004-6361. Dostupné na: <https://doi.org/10.1051/0004-6361/202556498>

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9.) Odhalenie povahy špeciálnych hviezdnych sústav a exoplanét (*Unveiling the Nature of Special Stellar Systems and Exoplanets*)

Zodpovedný riešiteľ: Theodor Pribulla
Trvanie projektu: 1.9.2025 / 30.8.2029
Evidenčné číslo projektu: APVV-24-0160
Organizácia je koordinátorom projektu: áno
Koordinátor: Astronomický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 2 - Slovensko: 2
Čerpané financie: APVV: 36248 €

Dosiahnuté výsledky:

V prvom roku riešenia bolo hlavným výsledkom pokovenie 1,3m ďalekohľadu na Skalnatom Plese. Projekt bol prezentovaný zodpovedným riešiteľom na medzinárodnom seminári KOLOS2025 v decembri 2025.

Programy: Plán obnovy EÚ

10.) Štipendia pre excelentných výskumníkov ohrozených vojnovým konfliktom na Ukrajine - O. Shubina

Zodpovedný riešiteľ: Peter Gömöry
Trvanie projektu: 1.7.2022 / 30.6.2025
Evidenčné číslo projektu: 09I03-03-V01-00001
Organizácia je koordinátorom projektu: áno
Koordinátor: Astronomický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: POO: 54462 €

Dosiahnuté výsledky:

Práce:

ADCA

VOITKO, Anhelina - KLESHCHONOK, Valerii - SHUBINA, Olena - IVANOVA, Oleksandra - HUSÁRIK, Marek. Photometric study of eight distant comets. In Monthly Notices of the Royal Astronomical Society, 2025, vol. 538, no. 3, p. 1609-1627. (2024: 4.8 - IF, Q1 - JCR, 1.702 - SJR, Q1 - SJR). ISSN 0035-8711. Dostupné na: <https://doi.org/10.1093/mnras/staf400>

Referáty na medzinárodných konferenciách a zahraničných inštitúciách:

SHUBINA, O.: Dust environment of comet 67P/Churyumov–Gerasimenko in 2021-2022 apparition. 11th Dust Workshop. Istituto di Scienze Marine (ISMAR – CNR) Arsenale, Castello, Benátky, Taliansko, 18.-21.03.2025.

SHUBINA, O.: Polarimetric properties of cometary dust based on DBCP V3.0. The 21st Electromagnetic and Light Scattering Conference, Milazzo, Taliansko, 23.-27.06.2025.

11.) Štipendia pre excelentných výskumníkov ohrozených vojnovým konfliktom na Ukrajine - V. Krushevska

Zodpovedný riešiteľ: Peter Gömöry
Trvanie projektu: 1.8.2022 / 31.7.2025
Evidenčné číslo projektu: 09I03-03-V01-00002
Organizácia je koordinátorom projektu: áno
Koordinátor: Astronomický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: POO: 44550 €

Dosiahnuté výsledky:

Práce:

ADCA

KRUSHEVSKA, Viktoriia** - SHUGAROV, Sergey - PRIBULLA, Theodor - KUZNYETSOVA, Yuliana - PETROV, Mykola - ANDREEV, Maksim V. - PETRÍK, Karol - DUBOVSKÝ, Pavol. Analysis of photometric and spectroscopic observations of classical nova V615 Vul. In Astrophysics and Space Science, 2025, vol. 370, no. 10, article no. 113, p. 1-12. (2024: 1.5 - IF, Q3 - JCR, 0.378 - SJR, Q3 - SJR). ISSN 0004-640X. Dostupné na: <https://doi.org/10.1007/s10509-025-04498-5>

ADMA

DZYGUNENKO, A. - BARANSKY, O. - KRUSHEVSKA, Viktoriia. Physical parameters of superhumps in five dwarf nova systems based on TESS observations. In Kinematics and Physics of Celestial Bodies : space physics, 2025, vol. 41, no. 5, p. 187-196. (2024: 0.7 - IF, Q4 - JCR, 0.3 - SJR, Q3 - SJR). ISSN 0884-5913. Dostupné na: <https://doi.org/10.3103/S0884591325050034>

Referáty na medzinárodných konferenciách a zahraničných inštitúciách:

ANDRIIV, Yu. – KRUSHEVSKA, V. – SHUGAROV, S. – ANDREEV, M.: Photometric Variability of the Dwarf Novae J17374270+4915116 and ASASSN-24hf. XXV Gamow International Astronomical Conference, Odesa, Ukrajina, 18.-22.08.2025.

KRUSHEVSKA, V. – SHUGAROV, S. – PRIBULLA, T. – KUZNYETSOVA, Yu. – ANDREEV, M. – PETRÍK, K. – PETROV, M. – DUBOVSKÝ, P.: Photometric investigation of the classical nova V615 Vul. European Astronomical Society Annual Meeting - EAS 2025, Cork, Írsko, 23.-27.06.2025.

12.) Vyšetrovanie transportačných vlastností rezonancie 3:1 v strednom dennom pohybe s Jupiterom

Zodpovedný riešiteľ: Martina Kováčová
Trvanie projektu: 1.7.2024 / 31.12.2025
Evidenčné číslo projektu: APD0093
Organizácia je koordinátorom projektu: áno
Koordinátor: Astronomický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: POO: 2766 €

Dosiahnuté výsledky:

V rámci tohto projektu sme v roku 2025 ukončili všetky naplánované integrácie a dáta sme následne aj spracovali. Získané výsledky (v niektorých prípadoch len čiastočné) sme prezentovali na dvoch medzinárodných vedeckých podujatiach: 6th International Chaos and Complex Systems Symposium 2025 v Istanbule a EPSC-DPS 2025 v Helsinkách. Výsledky boli tiež prezentované v rámci XVII. Interaktívnej Konferencie Mladých Vedcov 2025. Aktuálne prebieha príprava článku, v ktorom budeme získané výsledky publikovať.

13.) Kelvin-Helmholtzove nestability v slnečných chromosférických výtryskoch. (*Kelvin-Helmholtz instability of solar chromospheric jets.*)

Zodpovedný riešiteľ: Sergo Lomineishvili
Trvanie projektu: 1.7.2024 / 31.12.2025
Evidenčné číslo projektu: APD0088
Organizácia je koordinátorom projektu: áno
Koordinátor: Astronomický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: POO: 2989 €

Dosiahnuté výsledky:

Pokračovali sme v simuláciách slnečných spikúl. Boli vypracované nové časti kódu potrebné na riešenie 3D MHD rovníc. Vykonané boli viaceré testovacie simulácie s overením ich výsledkov. Vykonané práce viedli k vytvoreniu realistickejšieho modelu spikúl.

14.) Nestabilita tokov plazmy v chromosférických výtryskoch. (*Flow instability in chromospheric jets*)

Zodpovedný riešiteľ: Zurab Vashalomidze
Trvanie projektu: 1.9.2024 / 31.8.2026
Evidenčné číslo projektu: 09I03-03-V04-00015
Organizácia je koordinátorom projektu: áno
Koordinátor: Astronomický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: POO: 67232 €

Dosiahnuté výsledky:

Práce:

ADCA

DE WILDE, M. - PIETROW, A. G. M.** - DRUETT, M. K. - PASTOR YABAR, A. - KOZA, Július - KONTOGIANNIS, Ioannis - ANDRIENKO, O. - BERLICKI, A. - BRUNVOLL, A. R. - DE LA CRUZ RODRIQUEZ, J. - THOEN FABER, J. - JOSHI, R. - KURIDZE, David - NÓBREGA-SIVERIO, D. - ROUPPE VAN DER VOORT, L. - RYBÁK, Ján - SCULLION, Eamon - SILVA, A. M. - VASHALOMIDZE, Zurab - VINCENTE ARÉVALO, A. - WISNIEWSKA, Aneta - YADAV, R. - ZAQARASHVILI, Teimuraz V. - ZBINDEN, J. - OYRE, E. S. Synthesizing Sun-as-a-star flare spectra from high-resolution solar observations. In *Astronomy and Astrophysics*, 2025, vol. 700, article no. A275, p. 1-21. (2024: 5.8 - IF, Q1 - JCR, 1.968 - SJR, Q1 - SJR). ISSN 0004-6361. Dostupné na: <https://doi.org/10.1051/0004-6361/202554870>

Publikačná činnosť organizácie

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ABC Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách

- ABC01 BAUER, James - IVANOVA, Oleksandra - MCKAY, Adam - SARID, Gal. Activity, outbursts and explosions : Chapter 8. In Centaurs. - Bristol : IOP Publishing, 2025, p. 8.1-8.26. ISBN 978-0-7503-5586-5. Dostupné na: <https://doi.org/10.1088/2514-3433/ada267ch8>
- ABC02 MANDT, Kathleen - IVANOVA, Oleksandra - HARRINGTON PINTO, Olga - ROTH, Nathan X. - SELIGMAN, Darryl Z. Volatiles : Chapter 6. In Centaurs. - Bristol : IOP Publishing, 2025, p. 6.1-6.40. ISBN 978-0-7503-5586-5. Dostupné na: <https://doi.org/10.1088/2514-3433/ada267ch6>

ADCA Vedecké práce v zahraničných karentovaných časopisoch – impaktovaných

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ADCA51

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ADCA53

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ADCA58

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ADCA60

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Registrované v: WOS

ADCA64

GONZÁLEZ MANRIQUE, Sergio Javier - KUCKEIN, Christoph - COLLADOS, M. - DENKER, Carsten - SOLANKI, S.K. - GÖMÖRY, Peter - VERMA, Meetu - BALTHASAR, Horst - LAGG, A. - DIERCKE, Andrea. Temporal evolution of arch filaments as seen in He I 10 830 angstrom. In Astronomy and Astrophysics, 2018, vol. 617, article no. A55, p. 1-11. (2017: 5.565 - IF, Q1 - JCR, 2.265 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0004-6361. Dostupné na: <https://doi.org/10.1051/0004-6361/201832684>

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<https://doi.org/10.1051/0004-6361/202451069>, Registrované v: WOS

ADCA65

GONZÁLEZ MANRIQUE, Sergio Javier - KHOMENKO, Elena - COLLADOS, M. - KUCKEIN, Christoph - FELIPE, Tobias - GÖMÖRY, Peter. Two fluid dynamics in solar prominences. In Astronomy and Astrophysics, 2024, vol. 681, article no. A114, pp. 1-12. (2023: 5.4 - IF, Q1 - JCR, 1.896 - SJR, Q1 - SJR, karentované - CCC). (2024 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0004-6361. Dostupné na: <https://doi.org/10.1051/0004-6361/202348119>

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Registrované v: WOS

ADCA66

GONZÁLEZ MANRIQUE, Sergio Javier - QUINTERO NODA, C. - KUCKEIN, Christoph - RUIZ COBO, B. - CARLSSON, Mats. Capabilities of bisector analysis of the Si i 10 827 Å line for estimating line-of-sight velocities in the quiet Sun. In Astronomy and Astrophysics, 2020, vol. 634, article no. A19, p. 1-7. (2019: 5.636 - IF, Q1 - JCR, 2.174 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0004-6361. Dostupné na: <https://doi.org/10.1051/0004-6361/201937274>

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Registrované v: WOS

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Registrované v: WOS

ADCA67

GONZÁLEZ MANRIQUE, Sergio Javier - KUCKEIN, Christoph - PASTOR YABAR, A. - DIERCKE, Andrea - COLLADOS, M. - GÖMÖRY, Peter - ZHONG, Sihui - HOU, Yijun - DENKER, Carsten. Tracking downflows from the chromosphere to the photosphere in a solar arch filament system. In *The Astrophysical Journal*, 2020, vol. 890, no. 1, article no. 82, p. 1-7. (2019: 5.746 - IF, Q1 - JCR, 2.144 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0004-637X. Dostupné na: <https://doi.org/10.3847/1538-4357/ab6cee>

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ADCA68

GORAI, Prasanta - SIL, Milan - DAS, Ankan - SIVARAMAN, Bhalamurugan - CHAKRABARTI, Sandip K. - IOPPOLO, Sergio - PUZZARINI, Cristina - KAŇUCHOVÁ, Zuzana - DAWES, Anita - MENDOLICCHIO, Marco - MANCINI, Giordano - BARONE, Vincenzo - NAKATANI, Naoki - SHIMONISHI, Takashi - MASON, Nigel. Systematic study on the absorption features of interstellar ices in the presence of impurities. In *ACS Earth and Space Chemistry*, 2020, vol. 4, no. 6, p. 920-946. (2019: 3.418 - IF, Q1 - JCR, 0.936 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2472-3452. Dostupné na: <https://doi.org/10.1021/acsearthspacechem.0c00098>

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ADCA69

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. (2013: 4.479 - IF, Q1 - JCR, 2.544 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0004-6361. Dostupné na: <https://doi.org/10.1051/0004-6361/201322777>

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ADCA70

GUNÁR, Stanislav - HEINZEL, Petr - KOZA, Július - SCHWARTZ, Pavol. Large impact of the Mg II h and k incident radiation change on results of radiative transfer models and the importance of dynamics. In *The Astrophysical Journal*, 2022, vol.

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ADCA71

HABBAL, S. Rifai - DRUCKMÜLLER, Miloslav - MORGAN, Huw - DAW, Adrian - JOHNSON, Judd - DING, Adalbert - ARNDT, Martina - ESSER, Ruth - RUŠIN, Vojtech - SCHOLL, Isabelle. Mapping the distribution of electron temperature and Fe charge states in the corona with total solar eclipse observations. In *The Astrophysical Journal*, 2010, vol. 708, p. 1650-1662. (2009: 7.364 - IF, 3.394 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents, SCOPUS, NASA ADS). ISSN 0004-637X. Dostupné na: <https://doi.org/10.1088/0004-637X/708/2/1650>

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ADCA72

HABBAL, S. Rifai - DRUCKMÜLLER, Miloslav - MORGAN, Huw - SCHOLL, Isabelle - RUŠIN, Vojtech - DAW, Adrian - JOHNSON, Judd - ARNDT, Martina. Total solar eclipse observations of hot prominence shrouds. In *The Astrophysical Journal*, 2010, vol. 719, p. 1362-1369. (2009: 7.364 - IF, 3.394 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents, SCOPUS, NASA ADS). ISSN 0004-

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ADCA73

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ADCA74

HAJDUKOVÁ, Mária, Jr. - NESLUŠAN, Luboš. Regular and transitory showers of comet C/1979 Y1 (Bradfield). In *Astronomy and Astrophysics*, 2017, vol. 605, article no. A36, p. 1-13. (2016: 5.014 - IF, Q1 - JCR, 2.234 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0004-6361. Dostupné na: <https://doi.org/10.1051/0004-6361/201730646>

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<https://doi.org/10.1016/j.icarus.2024.116034>, Registrované v: WOS

ADCA75

HAJDUKOVÁ, Mária, Jr. - NESLUŠAN, Luboš**. Modeling the meteoroid streams of comet C/1861 G1 (Thatcher), Lyrids. In *Planetary and Space Science*, 2021, vol.

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<https://doi.org/10.1016/j.icarus.2024.116034>, Registrované v: WOS

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<https://doi.org/10.1016/j.icarus.2024.116165>, Registrované v: WOS

ADCA76

HAJDUKOVÁ, Mária, Jr. - RUDAWSKA, Regina - KORNOŠ, Leoš - TÓTH, Juraj. April p Cygnids and comet C/1917 F1 Mellish. In Planetary and Space Science, 2015, vol. 118, p. 28-34. (2014: 1.875 - IF, Q3 - JCR, 1.118 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0032-0633. Dostupné na: <https://doi.org/10.1016/j.pss.2015.05.002>

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<https://doi.org/10.1016/j.icarus.2024.116034>, Registrované v: WOS

ADCA77

HAJDUKOVÁ, Mária, Jr. - KOTEN, Pavel - KORNOŠ, Leoš - TÓTH, Juraj. Meteoroid orbits from video meteors. The case of the Geminid stream. In Planetary and Space Science, 2017, vol. 143, p. 89-98. (2016: 1.892 - IF, Q3 - JCR, 1.207 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0032-0633. Dostupné na: <https://doi.org/10.1016/j.pss.2017.01.004>

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ADCA78 HAJDUKOVÁ, Mária, Jr. - NESLUŠAN, Ľuboš. Modeling of the meteoroid stream of comet C/1975 T2 and lambda-Ursae Majorids. In Astronomy and Astrophysics, 2019, vol. 627, article no. A73, p. 1-8. (2018: 6.209 - IF, Q1 - JCR, 2.527 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0004-6361. Dostupné na: <https://doi.org/10.1051/0004-6361/201935630>

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Dostupné na: <https://doi.org/10.3847/1538-4357/ad0f1c>, Registrované v: WOS

ADCA133

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 - SOSNOVSKIY, Aleksei - OKSANEN, Arto - HARLINGTON, Caisey - TYYSKA, Jenni - MONARD, Berto - SHUGAROV, Sergey - 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 - KOCHANIEK, 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. (2013: 2.009 - IF, Q2 - JCR, 1.213 - SJR, Q2 - SJR, karentované - CCC). (2014 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0004-6264. Dostupné na: <https://doi.org/10.1093/pasj/psu014>

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ADCA134

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 - HARLINGTON, Caisey - SHUGAROV, Sergey - 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, Bartłomiej - 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 - KOCHANÉK, 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. (2013: 2.009 - IF, Q2 - JCR, 1.213 - SJR, Q2 - SJR, karentované - CCC). (2014 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0004-6264. Dostupné na: <https://doi.org/10.1093/pasj/psu072>

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Registrované v: WOS

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Registrované v: SCOPUS

ADCA135

KATO, Taichi - MAEHARA, Hiroyuki - MILLER, Ian - OHSHIMA, Tomohito - DE MIGUEL, Enrique - TANABE, Kenji - IMAMURA, Kazuyoshi - AKAZAWA, Hidehiko - KUNITOMI, Nanae - TAKAGI, Ryosuke - NOSE, Mikiha - HAMBSCH, Franz-Josef - KIYOTA, Seiichiro - PAVLENKO, Elena - BAKLANOV, Aleksei - ANTONYUK, Oksana I. - SAMSONOV, Denis A. - SOSNOVSKIY, Aleksei - ANTONYUK, Kirill - ANDREEV, Maksim V. - MORELLE, Etienne - DUBOVSKÝ, Pavol - KUDZEJ, Igor - OKSANEN, Arto - MASI, Gianluca - KRAJCI, Thomas - PICKARD, Roger - SABO, Richard - ITOH, Hiroshi - STEIN, William - DVORAK, Shawn - HENDEN, Arne - NAKAGAWA, Shinichi - NOGUCHI, Ryo - IINO, Eriko - MATSUMOTO, Katsura - NISHITANI, Hiroki - AOKI, Tomoya - KOBAYASHI, Hiroshi - AKASAKA, Chihiro - BOLT, Greg - SHEARS, Jeremy - RUIZ, Javier - SHUGAROV, Sergey - CHOCHOL, Drahomír - PARAKHIN, Nikolay A. - MONARD, Berto - SHIOKAWA, Kazuhiko - KASAI, Kiyoshi - STAELS, Bart - MIYASHITA, Atsushi - STARKEY, Donn - ÖGMEN, Yenal - LITTLEFIELD, Colin - KATYSHEVA, Natalia A. - SERGEY,

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ADCA136 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 - GOLYSHEVA, Polina Yu. - CHOCHOL, Drahomír - KRUSHEVSKA, Viktoriia - 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 - KOCHANKE, 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. (2014: 2.066 - IF, Q2 - JCR, 1.122 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0004-6264. Dostupné na: <https://doi.org/10.1093/pasj/psv072>

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<https://doi.org/10.1093/mnras/stae2524>, Registrované v: WOS

ADCA137 KATO, Taichi - HAMBSCH, Franz-Josef - MONARD, Berto - VANMUNSTER, Tonny - MAEDA, Yutaka - MILLER, Ian - ITOH, Hiroshi - KIYOTA, Seiichiro - ISOGAI, Keisuke - KIMURA, Mariko - IMADA, Akira - TORDAI, Tamas - AKAZAWA, Hidehiko - TANABE, Kenji - OTANI, Noritoshi - OGI, Minako - ANDO, Kazuko - TAKIGAWA, Naoki - DUBOVSKÝ, Pavol - KUDZEJ, Igor - SHUGAROV, Sergey - KATYSHEVA, Natalia A. - GOLYSHEVA, Polina Yu. - GLADILINA, Natalia - CHOCHOL, Drahomír - STARR, Peter - KASAI, Kiyoshi - PICKARD, Roger - DE MIGUEL, Enrique - KOJIGUCHI, Naoto - SUGIURA, Yuki - FUKUSHIMA, Daiki - YAMADA, Eiji - UTO, Yusuke - KAMIBETSUNAWA, Taku - TATSUMI, Taiki - TAKEDA, Nao - MATSUMOTO, Katsura - COOK, Lewis - PAVLENKO, Elena - BABINA, Julia - PIT, Nikolai - ANTONYUK, Oksana I. - ANTONYUK, Kirill - SOSNOVSKIJ, Aleksei - BAKLANOV, Aleksei - KAFKA, Stella - STEIN, William - VOLOSHINA, Irina - RUIZ, Javier - SABO, Richard - DVORAK, Shawn - STONE, Geoff - ANDREEV, Maksim V. - ANTIPIN, Sergey V. - ZUBAREVA, Alexandra M. - ZAOSTROJNYKH, Anna M. - RICHMOND, Michael - SHEARS, Jeremy - DUBOIS, Franky - LOGIE, Ludwig - RAU, Steve - VANAVERBEKE, Siegfried - SIMON, Andrei - OKSANEN, Arto - GOFF, William N. - BOLT, Greg - DEBSKI, Bartłomiej - KOCHANIEK, Christopher S. - SHAPPEE, Benjamin - STANEK, Krzysztof Z. - PRIETO, Jose L. - STUBBINGS, Rod - MUYLLAERT, Eddy - HIRAGA, Mitsutaka - HORIE, Tsuneo - SCHMEER, Patrick - HIROSAWA, Kenji. Survey of period variations of superhumps in SU UMa-type dwarf novae. VIII. The eight year (2015-2016). In Publications of the Astronomical Society of Japan, 2016, vol. 68, no. 4, article no. 65, p. 1-64. (2015: 1.961 - IF, Q2 - JCR, 0.750 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0004-6264. Dostupné na: <https://doi.org/10.1093/pasj/psw064>

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Registrované v: WOS

ADCA138 KATO, Taichi - ISHIOKA, Ryoko - ISOGAI, Keisuke - KIMURA, Mariko - IMADA, Akira - MILLER, Ian - MASUMOTO, Kazunari - NISHINO, Hirochika - KOJIGUCHI, Naoto - KAWABATA, Miho - SAKAI, Daisuke - SUGIURA, Yuki - FURUKAWA, Hisami - YAMAMURA, Kenta - KOBAYASHI, Hiroshi - MATSUMOTO, Katsura - WANG, Shiang-Yu - CHOU, Yi - NGEOW, Chow-Choong - CHEN, Wen-Ping - PANWAR, Neelam - LIN, Chi-Sheng - HSIAO, H.Y. - GUO, Jhen-Kuei - LIN, Chien-Cheng - OMAROV, Chingis - KUSAKIN, Anatoly - KRUGOV, Maxim - STARKEY, Donn - PAVLENKO, Elena - ANTONYUK, Kirill - SOSNOVSKIJ, Aleksei - ANTONYUK, Oksana I. - PIT, Nikolai -

BAKLANOV, Aleksei - BABINA, Julia - ITOH, Hiroshi - PADOVAN, Stefano - AKAZAWA, Hidehiko - KAFKA, Stella - DE MIGUEL, Enrique - PICKARD, Roger - KIYOTA, Seiichiro - SHUGAROV, Sergey - CHOCHOL, Drahomír - KRUSHEVSKA, Viktoriia - SEKERÁŠ, Matej - PIKALOVA, Olga - SABO, Richard - DUBOVSKÝ, Pavol - KUDZEJ, Igor - ULOWETZ, Joseph - DVORAK, Shawn - STONE, Geoff - TORDAI, Tamas - DUBOIS, Franky - LOGIE, Ludwig - RAU, Steve - VANAVERBEKE, Siegfried - VANMUNSTER, Tonny - OKSANEN, Arto - MAEDA, Yutaka - KASAI, Kiyoshi - KATYSHEVA, Natalia A. - MORELLE, Etienne - NEUSTROEV, Vitaly V. - SJOBERG, George. RZ Leonis Minoris bridging between ER Ursae Majoris-type dwarf nova and nova-like system. In Publications of the Astronomical Society of Japan, 2016, vol. 68, no. 6, article no. 107, p. 1-14. (2015: 1.961 - IF, Q2 - JCR, 0.750 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents, WOS, SCOPUS, NASA ADS). ISSN 0004-6264. Dostupné na: <https://doi.org/10.1093/pasj/psw101>

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ADCA139

KATO, Taichi - IMADA, Akira - UEMURA, Makoto - NOGAMI, Daisaku - MAEHARA, Hiroyuki - ISHIOKA, Ryoko - BABA, Hajime - MATSUMOTO, Katsura - IWAMATSU, Hidetoshi - KUBOTA, Kaori - SUGIYASU, Kei - SOEJIMA, Yuichi - MORITANI, Yuuki - OHSHIMA, Tomohito - OHASHI, Hiroyuki - TANAKA, Junpei - SASADA, Mahito - ARAI, Akira - NAKAJIMA, Kazuhiro - KIYOTA, Seiichiro - TANABE, Kenji - IMAMURA, Kazuyoshi - KUNITOMI, Nanae - KUNIHIRO, Kenji - TAGUCHI, Hiroki - KOIZUMI, Mitsuo - YAMADA, Norimi - NISHI, Yuichi - KIDA, Mayumi - TANAKA, Sawa - UEOKA, Rie - YASUI, Hideki - MARUOKA, Koichi - HENDEN, Arne - OKSANEN, Arto - MOILANEN, Marko - TIKKANEN, Petri - AHO, Mika - MONARD, Berto - ITOH, Hiroshi - DUBOVSKÝ, Pavol - KUDZEJ, Igor - DANKIKOVA, Radka - VANMUNSTER, Tonny - PIETZ, Jochen - BOLT, Greg - BOYD, David - NELSON, Peter - KRAJCI, Thomas - COOK, Lewis - TORII, Ken'ichi - STARKEY, Donn - SHEARS, Jeremy - JENSEN, Lasse-Teist - MASI, Gianluca - HYNEK, Tomáš - NOVÁK, Rudolf - KOCIÁN, Radek - KRÁL, Lukáš - KUČÁKOVÁ, Hana - KOLASA, Marek - ŠŤASTNÝ, Petr - STAELS, Bart - MILLER, Ian - SANO, Yasuo - DE PONTIÈRE, Pierre - MIYASHITA, Atsushi - CRAWFORD, Tim - BRADY, Steve - SANTALLO, Roland - RICHARDS, Tom - MARTIN, Brian - BUCZYNSKI, Denis - RICHMOND, Michael - KERN, Jim - DAVIS, Stacey - CRABTREE, Dustin - BEAULIEU, Kevin - DAVIS, Tracy - AGGLETON, Matt - MORELLE, Etienne - PAVLENKO, Elena - ANDREEV, Maksim V. - BAKLANOV, Alexander - KOPPELMAN, Michael - BILLINGS, Gary - URBANČOK, Ľubomír - ÖGMEN, Yenal - HEATHCOTE, Bernard - GOMEZ, Tomas - VOLOSHINA, Irina - RETTER, Alon - MULARCZYK, Krzysztof - ZŁOCZEWSKI, Kamil - OLECH, Arkadiusz - KEDZIERSKI, Piotr - PICKARD, Roger - STOCKDALE, Chris - VIRTANEN, Jani - MORIKAWA, Koichi - HAMBSCH, Franz-Josef - GARRADD, Gordon - GUALDONI, Carlo - GEARY, Keith - OMODAKA, Toshihiro - SAKAI, Nobuyuki - MICHEL, Raul -

CÁRDENAS, Alvaro - GAZEAS, Kosmas - NIARCHOS, Panagiotis - YUSCHENKO, Alexander - MALLIA, Franco - FIASCHI, Marco - GOOD, Gerry - WALKER, Stan - JAMES, Nick - DOUZU, Ken-ichi - JULIAN II, Mack - BUTTERWORTH, Neil - SHUGAROV, Sergey - VOLKOV, Igor - CHOCHOL, Drahomír - KATYSHEVA, Natalia A. - ROSENBUSCH, Alexander - KHRAMTSOVA, Maria - KEHUSMAA, Petri - RESZELSKI, Maciej - BEDIENT, James - LILLER, William - POJMAŃSKI, Grzegorz - SIMONSEN, Mike - STUBBINGS, Rod - SCHMEER, Patrick - MUYLLAERT, Eddy - KINNUNEN, Timo - POYNER, Gary - RIPERO, Jose - KRIEBEL, Wolfgang. Survey of period variations of superhumps in SU UMa-type dwarf novae. In Publications of the Astronomical Society of Japan, 2009, vol. 61, p. 395-616. (2008: 4.429 - IF, Q1 - JCR, 2.307 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents, NASA ADS). ISSN 0004-6264.

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ADCA198

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ADCA357

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- AEC06 KRESÁK, Ľubor. Dynamical interrelations among comets and asteroids. In *Asteroids*. - Tucson : University of Arizona Press, 1979, p.289-309. ISBN 8165-0428-8.

Citácie:

1. [3.2] CORREA-OTTO, J. - GARCIA-MIGANI, E. - GIL-HUTTON, R. *The population of comet candidates among quasi-Hilda objects revisited and updated*. In *MONTHLY NOTICES OF THE ASTRONOMICAL SOCIETY*, 2024, vol. 527, no. 1, p. 876-881. ISSN 0035-8711. Dostupné na: <https://doi.org/10.1093/mnras/stad3234>, Registrované v: NASA ADS

- AEC07 LINDBLAD, Bertil A. - PORUBČAN, Vladimír. Activity of the Lyrid meteor stream. In *Asteroids, Comets, Meteors 1991*. - Flagstaff : JPL, 1992, P.367-370.

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1. [3.2] JOPEK, T. J. - NESLUSAN, L. - RUDAWSKA, R. - HAJDUKOVA, M. *Search for duplicates of showers in the IAU MDC database. Methods and general results*. In *ASTRONOMY AND ASTROPHYSICS*, 2024, vol. 682, article no. A159, p. 1-12. ISSN 0004-6361. Dostupné na: <https://doi.org/10.1051/0004-6361/202347910>, Registrované v: NASA ADS

- AEC08 MINAROVJECH, Milan - RYBANSKÝ, Milan - RUŠIN, Vojtech. Time-latitude prominence and the green corona distribution over the solar activity cycle. In *New*

Perspectives on Prominences, IAU Colloquium 167. - San Francisco : Astronomical Society of the Pacific, 1998, p.484-487. ISBN 1-886733-70-8. 5017

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1. [3.2] LI, K. J. - XU, J. C. - FENG, W. - XIE, J. L. - SHI, X. J. - DENG, L. H. *How are the abnormally hot chromosphere and corona heated by the solar magnetic fields? In ASTROPHYSICAL JOURNAL, 2024, vol. 962, no. 2, article no. 144, p. 1-6. ISSN 0004-637X. Dostupné na: <https://doi.org/10.3847/1538-4357/ad1ab3>, Registrované v: NASA ADS*

AEC09

ÖZGÜÇ, Atila - ATAÇ, Tamer - RYBÁK, Ján. Short-term periodicities in the flare index between the years 1966-2001. In Solar Variability as an Input to the Earth's Environment : International Solar Cycle Studies (ISCS) Symposium 2003. Edited by A. Wilson. - Noordwijk : ESA Publications Division, 2003, s. 141-143. ISBN 92-9092-845-X.

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AEC10

SKOPAL, Augustín - PRIBULLA, Theodor - BUIL, Christian - VITTONI, Alberto A. - ERRICO, Luigi. A non-spherical mass outflow from RS Oph during its 2006 outburst. In RS Ophiuchi (2006) and the Recurrent Nova Phenomenon : ASP Conference Series Vol. 401. Edited by A. Evans, M.F. Bode, T.J. O'Brien and M.J. Darnley. - San Francisco : Astronomical Society of Pacific, 2008, p. 227-230. ISBN 978-1-58381-674-5.

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***AEE Vedecké práce v zahraničných nerecenzovaných vedeckých zborníkoch, monografiách**

AEE01

HAJDUK, Anton. On the very high velocity meteors. In Proceedings of the Meteoroids 2001 Conference. - Kiruna : Swedish Inst. of Space Phys., 2001, p.557-559.

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1. [1.1] HAJDUKOVA, M. - STOBBER, G. - BARGHINI, D. - KOTEN, P. - VAUBAILLON, J. - STERKEN, V. J. - DURISOVA, S. - JACKSON, A. - DESCH, S. *No evidence for interstellar fireballs in the CNEOS database. In ASTRONOMY AND ASTROPHYSICS, 2024, vol. 691, article no. A8, p. 1-20. ISSN 0004-6361. Dostupné na: <https://doi.org/10.1051/0004-6361/202449569>, Registrované v: WOS*

AEE02

KOUTCHMY, Olga - KOUTCHMY, Serge - NITCHELM, Christian - SÝKORA, Július - SMARTT, Raymond N. Image processing of coronal pictures. In Solar and Stellar Coronal Structure and Dynamics. - Sunspot, NM : NOAO/Sacramento Peak Observatory, 1988, p.256-266.

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Registrované v: NASA ADS

AEE03 KRESÁK, Ľubor - KRESÁKOVÁ, Margita. The mass loss rates of periodic comets. In The Diversity and Similarity of Comets, ESA SP-278. - European Space Agency, 1987, p.739-744.

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1. [3.2] YE, Quanzhi - JENNISKENS, Peter. Comets and meteor showers. In MEECH, Karen J. et al. ed. COMETS III, SPACE SCIENCE SERIES. Tucson: University of Arizona Press, 2024, p. 799-822. ISBN 9780816553631. Dostupné na: <https://www.jstor.org/stable/jj.21819446.30>, Registrované v: NASA ADS

AEE04 MIKULÁŠEK, Zdeněk - KRTIČKA, Jiří - JANÍK, Jan - ZEJDA, Miloslav - HENRY, Gregg W. - PAUNZEN, Ernst - ŽIŽŇOVSKÝ, Jozef - ZVERKO, Juraj. Ap stars with variable periods. In Putting A Stars into Context: Evolution, Environment, and Related Stars : Proceedings of the international conference held on June 3–7, 2013 at Moscow M.V. Lomonosov State University in Moscow, Russia. - Moscow : Publishing House Pero, 2014, p. 270-278. ISBN 978-5-00086-273-5.

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AEE05 RUŠIN, Vojtech - RYBANSKÝ, Milan - MINAROVJECH, Milan - PINTER, P. The White-Light, Far Red (600-700 nm) and Emission Coronae at the July 11, 1991 Eclipse. In Infrared Solar Physics. - Dordrecht/Boston/London : Kluwer Academic Publ., 1994, p.211-215.

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1. [3.2] RAMESH, R. - MUTHU PRIYAL, V. - SINGH, Jagdev - SASIKUMAR RAJA, K. - SAVARIMUTHU, P. - GAVSHINDE, Priya. New results on the onset of a coronal mass ejection from 5303 Å emission line observations with VELC/ADITYA-L1. In ASTROPHYSICAL JOURNAL LETTERS, 2024, vol. 976, no. 1, article no. L6, p. 1-8. ISSN 2041-8213. Dostupné na: <https://doi.org/10.3847/2041-8213/ad8c45>, Registrované v: NASA ADS

BEE Odborné práce v zahraničných zborníkoch (konferenčných aj nekonferenčných, recenzovaných a nerecenzovaných)

BEE01 BALTHASAR, Horst - GÖMÖRY, Peter - GONZÁLEZ MANRIQUE, Sergio Javier - KUCKEIN, Christoph - KUČERA, Aleš - SCHWARTZ, Pavol - BERKEFELD, T. - COLLADOS, M. - DENKER, Carsten - FELLER, A. - HOFMANN, A. - SCHMIDT, D. - SCHMIDT, Wolfgang - SOBOTKA, M. - SOLANKI, S.K. - SOLTAU, D. - STAUDE, J. - STRASSMEIER, Klaus G. - VON DER LÜHE, O. Spectropolarimetric observations of an arch filament system with GREGOR. In Solar Polarization 8. In Honor of Egidio Landi Degl'Innocenti : ASP Conference Series vol. 526. - San Francisco : Astronomical Society of the Pacific, 2019, p. 217-222. ISBN 978-1-58381-939-5.

Citácie:

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2. [3.2] PASECHNIK, M. N. A spectral study of active region site with an

Ellerman Bomb and Ha Ejections: Chromosphere. Arch Filament System. In KINEMATICS AND PHYSICS OF CELESTIAL BODIES, 2024, vol. 40, no. 5, p. 269-288. ISSN 0884-5913. Dostupné na:

<https://doi.org/10.3103/S0884591324050040>, Registrované v: NASA ADS

- BEE02 GEPPERT, W. - DUNÉR, David - HEMMINGER, E. - KAŇUCHOVÁ, Zuzana - WALTERMATHE, M. Education, training and scholarship. In *Astrobiology and Society in Europe Today*. - Cham : Springer Nature Switzerland AG, 2018, p. 31-35. ISBN 978-3-319-96264-1.

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2. [1.1] STYCZINSKI, M. J. - GLASER, D. M. - HOOKS, M. - JIA, T. Z. - JOHNSON-FINN, K. - SCHAIBLE, G. A. - SCHAIBLE, M. J. Chapter 11: Astrobiology Education, Engagement, and Resources. In *ASTROBIOLOGY*, 2024, vol. 24, p. S216-S227. ISSN 1531-1074. Dostupné na: <https://doi.org/10.1089/ast.2021.0098>, Registrované v: WOS

- BEE03 CHOCHOL, Drahomír - IKONNIKOVA, Natalia - KATYSHEVA, Natalia A. - SHUGAROV, Sergey - 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.

Citácie:

1. [3.2] BRUCH, Albert. TESS light curves of cataclysmic variables. V. Improved or corrected orbital periods of 53 systems. In *ASTRONOMICAL JOURNAL*, 2024, vol. 168, no. 3, article no. 121, p. 1-10. ISSN 0004-6256. Dostupné na: <https://doi.org/10.3847/1538-3881/ad6260>, Registrované v: NASA ADS

GHG Práce zverejnené spôsobom umožňujúcim hromadný prístup

- GHG01 VOLKOV, Igor. GRB 081203A: optical observations. In *Gamma-Ray Bursts Coordinates Network Circular*, 2008, no. 8604. Názov prebraný z titulnej strany. Dostupné na internete: <http://gcn.gsfc.nasa.gov>

Citácie:

1. [3.2] ANGULO-VALDEZ, Camila - BECERRA, Rosa L. - PEREYRA,

Margarita - GARCIA-CIFUENTES, Keneth - VARGAS, Felipe - WATSON, Alan M. - DE COLLE, Fabio - FRAJJA, Nissim - BUTLER, Nathaniel R.- DAINOTTI, Maria G. - DICHIARA, Simone - LEE, William H. - TROJA, Eleonora - BLOOM, Joshua S. - GONZALEZ, J. Jesús - KUTYREV, Alexander S. - PROCHASKA, J. Xavier - RAMIREZ-RUIZ, Enrico - RICHER, Michael G. Machine-learning enhanced photometric analysis of the extremely bright GRB 210822A. In MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, 2024, vol. 527, no. 3, p. 8140-8150. ISSN 0035-8711. Dostupné na: <https://doi.org/10.1093/mnras/stad3624>, Registrované v: NASA ADS

2. [3.2] KANN, D. A. - WHITE, N. E. - GHIRLANDA, G. - OATES, S. R. - MELANDRI, A. - JELINEK, M.; DE UGARTE POSTIGO, A. - LEVAN, A. J. - MARTIN-CARRILLO, A. - PAEK, G. S. -H. - IZZO, L. - BLAZEK, M. - THONE, C. C. - AGUI FERNANDEZ, J. F. - SALVATERRA, R. - TANVIR, N. R. - CHANG, T. -C. - O';BRIEN, P. - ROSSI, A. - PERLEY, D. A. - IM, M. - MALESANI, D. B. - ANTONELLI, A. - COVINO, S. - CHOI, C. - D';AVANZO, P. - D';ELIA, V. - DICHIARA, S. - FAUSEY, H. M. - FUGAZZA, D. - GOMBOC, A. - GORSKI, K. M. - GRANOT, J. - GUIDORZI, C. - HANLON, L. - HARTMANN, D. H. - HUDEC, R. - JUN, H. D. - KIM, J. - KIM, Y. - KLOSE, S. - KLUZNIAK, W. - KOBAYASHI, S. - KOUVELIOTOU, C. - LIDZ, A. - MARONGIU, M. - MARTONE, R. - MEINTJES, P. - MUNDELL, C. G. - MURPHY, D. - NALEWAJKO, K. - PARK, W. -K. - SZECSEI, D. - SMITH, R. J. - STECKLUM, B. - STEELE, I. A. - ŠTROBL, J. - SUNG, H. -I. - - UPDIKE, A. - URATA, Y. - VAN DER HORST, A. J. Fires in the deep: The luminosity distribution of early-time gamma-ray-burst afterglows in light of the Gamow Explorer sensitivity requirements. In ASTRONOMY AND ASTROPHYSICS, 2024, vol. 686, article no. A56, p. 1-43. ISSN 0004-6361. Dostupné na: <https://doi.org/10.1051/0004-6361/202348159>, Registrované v: NASA ADS

Príloha A-4

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

Mgr. Peter Gömöry, PhD.

Názov semestr. predmetu: Fyzika Slnka

Počet hodín za semester: 56

Názov katedry a vysokej školy: Prírodovedecká fakulta UPJŠ, Ústav fyzikálnych vied, Katedra teoretickej fyziky a astrofyziky

Mgr. Peter Gömöry, PhD.

Názov semestr. predmetu: Fyzika Slnka

Počet hodín za semester: 39

Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, Katedra astronómie, fyziky Zeme a meteorológie

Mgr. Peter Gömöry, PhD.

Názov semestr. predmetu: Vybrané kapitoly z fyziky Slnka I (pre doktorandský stupeň)

Počet hodín za semester: 26

Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, Katedra astronómie, fyziky Zeme a meteorológie

Mgr. Marián Jakubík, PhD.

Názov semestr. predmetu: Nebeská mechanika

Počet hodín za semester: 56

Názov katedry a vysokej školy: Prírodovedecká fakulta UPJŠ, Ústav fyzikálnych vied, Katedra teoretickej fyziky a astrofyziky

RNDr. Luboš Neslušan, CSc.

Názov semestr. predmetu: Numerické metódy v astronómii (pre doktorandský stupeň)

Počet hodín za semester: 14

Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, Katedra astronómie, fyziky Zeme a meteorológie

RNDr. Theodor Pribulla, CSc.

Názov semestr. predmetu: Spektroskopia v astronómii (pre doktorandský stupeň)

Počet hodín za semester: 18

Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, Katedra astronómie, fyziky Zeme a meteorológie

RNDr. Augustín Skopal, DrSc.

Názov semestr. predmetu: Vybrané kapitoly z fyziky hviezd 1 (pre doktorandský stupeň)

Počet hodín za semester: 18

Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, Katedra astronómie, fyziky Zeme a meteorológie

Mgr. Dušan Tomko, PhD.

Názov semestr. predmetu: Populácia malých telies slnečnej sústavy 1 (pre doktorandský stupeň)

Počet hodín za semester: 26

Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, Katedra astronómie, fyziky Zeme a meteorológie

Mgr. Martin Vaňko, PhD.

Názov semestr. predmetu: Planetárne systémy

Počet hodín za semester: 56

Názov katedry a vysokej školy: Prírodovedecká fakulta UPJŠ, Ústav fyzikálnych vied, Katedra teoretickej fyziky a astrofyziky

Semestrálne cvičenia:

Mgr. Marek Husárik, PhD.

Názov semestr. predmetu: Odborné astronomické pozorovania I (pre doktorandský stupeň)

Počet hodín za semester: 52 (zimný semester)

Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, Katedra astronómie, fyziky Zeme a meteorológie

Mgr. Marek Husárik, PhD.

Názov semestr. predmetu: Odborné astronomické pozorovania I (pre doktorandský stupeň)

Počet hodín za semester: 52 (letný semester)

Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, Katedra astronómie, fyziky Zeme a meteorológie

Mgr. Marek Husárik, PhD.

Názov semestr. predmetu: Praktikum z astronómie

Počet hodín za semester: 42

Názov katedry a vysokej školy: Prírodovedecká fakulta UPJŠ, Ústav fyzikálnych vied, Katedra teoretickej fyziky a astrofyziky

Semináre:

Terénne cvičenia:

Individuálne prednášky:

RNDr. Mária Hajduková, PhD.

Názov semestr. predmetu: Astronómia II

Počet hodín za semester: 2

Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Centrum ďalšieho vzdelávania

Príloha A-5

Medzinárodná mobilita organizácie

(A) Vyslanie vedeckých pracovníkov do zahraničia na základe dohôd:

Krajina	D r u h d o h o d y					
	MAD, KD, VTS		Medziústavná		Ostatné	
	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní
Belgicko					Theodor Pribulla	8
Česko	Martin Vaňko	4	Andrii Maliuk	6	Ján Budaj	2
			Dmytro Orikhovskiy	6	Mária Hajduková	1
					Zuzana Kaňuchová	1
					Martin Vaňko	4
Dánsko					Zuzana Kaňuchová	28
Francúzsko					Mária Hajduková	4
					Marek Husárik	5
Gruzínsko	Sergo Lomineishvili	28				
Holandsko					Zoltán Garai	3
Maďarsko	Zoltán Garai	3			Zoltán Garai	6
	Dmytro Orikhovskiy	3			Zuzana Kaňuchová	4
	Theodor Pribulla	3			Dmytro Orikhovskiy	29
					Theodor Pribulla	4
Nemecko	Oleksandra Ivanova	4			Silvia Ďurišová	179
	Olena Shubina	4			Zuzana Kaňuchová	5
	Anhelina Voitko	4			Sergey Shugarov	22
					Anhelina Voitko	4
Poľsko	Július Koza	13			Dmytro Orikhovskiy	72
	Zurab Vashalomidze	13			Martin Vaňko	1
					Anhelina Voitko	16
Rakúsko					Zoltán Garai	4

Španielsko	Zurab Vashalomidze	76			Peter Gömöry	5
					Sergo Lomineishvili	29
Švajčiarsko					Mária Hajduková	3
Tadžikistan			Marek Husárik	5		
			Oleksandra Ivanova	5		
			Olena Shubina	5		
Taliansko					Mária Hajduková	3
					Zuzana Kaňuchová	6
Počet vyslaní spolu	11	155	5	27	26	448

(B) Prijatie vedeckých pracovníkov zo zahraničia na základe dohôd:

Krajina	D r u h d o h o d y					
	MAD, KD, VTS		Medziústavná		Ostatné	
	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní
Česko	Ema Šipková	2			Zdeněk Mikulášek	18
	Jozef Lipták	2				
	Marek Skarka	2				
	Michaela Vítková	2				
	Michal Zumner	5				
Čile					Patricia Araya	22
Francúzsko					Alexey Sergeyev	4
					Jin Beniyama	4
Maďarsko	Levente Kriskovics	4			Péter Lévy	5
Nemecko					Johannes Markkanen	4
					Klaus Bernhard	4
					Oriel Humes	4
Poľsko					Aaron W. Peat	12
					Arkadiusz Berlicki	8

					Robert Jaros	29
Taliansko					Mario Acolla	5
Počet prijatí spolu	6	17			12	119

(C) Účasť pracovníkov pracoviska na konferenciách v zahraničí (nezahrnutých v "A"):

Krajina	Názov konferencie	Meno pracovníka	Počet dní
Austrália	Meteoroids 2025	Mária Hajduková	5
Česko	SPW 11	Martin Benko	5
Fínsko	EPSC-DPS 2025	Oleksandra Ivanova	5
		Martina Kováčová	5
		Olena Shubina	5
		Dušan Tomko	5
		Anhelina Voitko	5
Holandsko	Recovery Plan UA	Olena Shubina	4
Portugalsko	DDE	Ján Budaj	7
		Zoltán Garai	7
		Dmytro Orikhovskiy	7
Španielsko	AstroRob 2025	Ján Adamčák	7
Švédsko	ESWW 2025	Aneta Barbara Wiśniewska	4
Taliansko	DW 11	Oleksandra Ivanova	3
		Olena Shubina	3
	ELSC 2025	Oleksandra Ivanova	5
		Olena Shubina	5
	GOLDEN 2025	Viktoriiia Krushevskia	6
		Sergey Shugarov	6
	ISMT	Marek Husárik	2
		Theodor Pribulla	2
		Olena Shubina	2
	WISA	Sergo Lomineishvili	5
		Zurab Vashalomidze	5
	XXVI SIGRAV	Luboš Neslušan	5
Turecko	SCCS 2025	Martina Kováčová	4
Spolu	14	26	124

Vysvetlivky: MAD - medziakademické dohody, KD - kultúrne dohody, VTS - vedecko-technická spolupráca v rámci vládnych dohôd

Skratky použité v tabuľke C:

AstroRob 2025 - VIII Workshop on Robotic Autonomous Observatories

DDE - Detection and Dynamics of Exoplanets: Interplay between theory and observations

DW 11 - 11th Dust Workshop

ELSC 2025 - The 21st Electromagnetic and Light Scattering Conference

EPSC-DPS 2025 - EPSC-DPS Joint Meeting 2025

ESWW 2025 - ESWW 2025 Technological expansion of the Arctic: the new frontiers of space weather

GOLDEN 2025 - The Golden Age of Cataclysmic Variables and Related Objects - VII

ISMT - Inovative uses of small-medium telescopes

Meteoroids 2025 - Meteoroids 2025

Recovery Plan UA - Recovery Plan for Ukrainian Astronomy: Post-war Recovery in Ukraine through Astronomy

SCCS 2025 - 6th International Interdisciplinary Chaos Symposium on Chaos and Complex Systems

SPW 11 - The Solar Polarisation Workshop 11

WISA - Waves and Instabilities in the Solar Atmosphere

XXVI SIGRAV - XXVI SIGRAV Conference on General Relativity and Gravitation

Príloha A-6

Vedecko-popularizačná činnosť pracovníkov organizácie

Meno	Spoluautori	Typ¹	Názov	Miesto zverejnenia	Dátum alebo počet za rok
Ing. Ján Adamčák		EX	Pozorovacie metódy v observatóriu v Starej Lesnej	AsÚ SAV, verejnosť	27.2.2025
Ing. Ján Adamčák		EX	Pozorovacie metódy v observatóriu v Starej Lesnej	AsÚ SAV, verejnosť, Česko	27.10.2025
Ing. Ján Adamčák		EX	Výskum na Astronomickom ústave SAV, v. v. i.	AsÚ SAV, pracovníci Centra vied o umení SAV, v. v. i.	7.5.2025
Ing. Ján Adamčák	Benko, M.	EX	Pozorovacie metódy v observatóriu v Starej Lesnej	ZŠ s MŠ, Nižná brána 8, 060 01 Kežmarok	14.11.2025
Ing. Ján Adamčák	Benko, M., Kundra, E., Shagatova, N.	EX	Pozorovanie nočnej oblohy v observatóriu v Starej Lesnej	verejnosť	11.11.2025
Ing. Jakub Ambróz		PB	O práci Observatória Lomnický štít AsÚ SAV	Observatórium Lomnický štít AsÚ SAV, exkurzia pre členov Výboru Snemu SAV	26.8.2025
Ing. Jakub Ambróz		PB	O práci Observatória Lomnický štít AsÚ SAV	Observatórium Lomnický štít AsÚ SAV, exkurzia pre hostí SHMÚ	19.8.2025
Ing. Jakub Ambróz		PB	O práci Observatória Lomnický štít AsÚ SAV	Observatórium Lomnický štít AsÚ SAV, exkurzia pre hostí UEF SAV, Košice	18.1.2025
Ing. Jakub Ambróz		PB	O práci Observatória Lomnický štít AsÚ SAV	Observatórium Lomnický štít AsÚ SAV, exkurzia pre pracovníkov spoločnosti TMR	16.1.2025
Mgr. Martin Benko, PhD.		PB	Pozorovanie hviezd a nočnej oblohy	Večera pod hviezdami - Skalnaté Pleso	18.4.2025
Mgr. Martin Benko, PhD.		PB	Pozorovanie hviezd a nočnej oblohy	Večera pod hviezdami - Skalnaté Pleso	19.7.2025
Mgr. Martin Benko, PhD.		PB	Pozorovanie hviezd a nočnej oblohy	Večera pod hviezdami - Skalnaté Pleso	27.9.2025
Mgr. Martin Benko, PhD.	Adamčák J.	EX	Pozorovacie metódy v observatóriu v Starej Lesnej	ZŠ s MŠ, Nižná brána 8, 060 01 Kežmarok	14.11.2025
Mgr. Martin Benko, PhD.	Adamčák J.	PB	Výskum na Astronomickom ústave SAV, v. v. i.	Klub orientačného behu Sokol, Pezinok	7.1.2025
Mgr. Martin Benko, PhD.	Adamčák J.	PB	Výskum na Astronomickom ústave SAV, v. v. i.	Kúpele Horný Smokovec	31.1.2025
Mgr. Martin Benko, PhD.	Adamčák J.	PB	Výskum na Astronomickom ústave SAV, v. v. i.	Stredná priemyselná škola techniky a dizajnu, Mnoheľova 828, 058 46 Poprad	5.5.2025

Mgr. Martin Benko, PhD.	Adamčák J., Shagatova N.	PB	Výskum na Astronomickom ústave SAV, v. v. i.	ZŠ, Štúrova 341, 094 31 Hanušovce nad Topľou	10.6.2025
Mgr. Martin Benko, PhD.	Kundra, E.	EX	Pozorovacie metódy v observatóriu v Starej Lesnej	ZŠ s MŠ, Jarná ulica 3168/13, 058 01 Poprad, a ZŠ s MŠ, Ždiar 255, 059 55	13.11.2025
Mgr. Martin Benko, PhD.	Trembáč, M., Vashalomidze, Z., Langer, R.	EX	Dni otvorených dverí na Observatóriu Lomnický štít	Observatórium Lomnický štít AsÚ SAV, verejnosť	19.7.2025
RNDr. Ján Budaj, DrSc.		TL	Hviezda, ktorá zničila svoj planetárny systém	Tlačová správa SAV	15.1.2025
RNDr. Ján Budaj, DrSc.		IN	Hviezda, ktorá zničila svoj planetárny systém	vedanadosah.cvtisr.sk	17.1.2025
RNDr. Ján Budaj, DrSc.		IN	Jedinečný výskum Slovákov: Astrofyzici sa podieľali na prelomovom objave hviezdy smrti	www.startitup.sk	16.1.2025
RNDr. Ján Budaj, DrSc.		PB	O Astronomickom ústave SAV	Observatórium Skalnaté Pleso, Občianske združenie Meli-Beli	8.8.2025
RNDr. Ján Budaj, DrSc.		IN	Objav astronómov: Hviezda, ktorá možno zničila svoj planetárny systém	uploading.sk	15.1.2025
RNDr. Ján Budaj, DrSc.		IN	Objavili hviezdu, ktorá zničila svoj planetárny systém. Skúmali ju aj astronómovia SAV.	dennikn.sk	15.1.2025
RNDr. Ján Budaj, DrSc.		IN	Slovak astronomer helps discover star destroying its system	The Slovak Spectator - spectator.sme.sk	23.1.2025
RNDr. Ján Budaj, DrSc.		IN	Slovák skúma záhadnú hviezdu. Mohla zničiť svoje planéty (rozhovor)	www.aktuality.sk	20.2.2025
RNDr. Ján Budaj, DrSc.		IN	TÝŽDEŇ VO VEDE: Objavili unikátnu ničivú hviezdu	www.teraz.sk	17.1.2025
RNDr. Ján Budaj, DrSc.		IN	Unikátny vesmírny objav: Astronómovia našli hviezdu, ktorá zrejme zničila svoj planetárny systém	www.ta3.com	16.1.2025
RNDr. Ján Budaj, DrSc.		IN	Vedci objavili hviezdu, ktorá pravdepodobne zničila svoj planetárny systém	www.epochtimes.sk	15.1.2025
RNDr. Ján Budaj, DrSc.		IN	Vedci objavili hviezdu, ktorá pravdepodobne zničila svoj planetárny systém	www.hlavnespravy.sk	15.1.2025
RNDr. Ján Budaj, DrSc.		IN	Vedci objavili hviezdu, ktorá pravdepodobne zničila svoj planetárny systém	zive.aktuality.sk	15.1.2025
RNDr. Ján Budaj, DrSc.		IN	Vedci objavili hviezdu, ktorá zrejme	www.inews.sk	15.1.2025

DrSc.			zničila svoj planetárny systém		
RNDr. Ján Budaj, DrSc.		IN	Vedci objavili hviezdu, ktorá zrejme zničila svoj planetárny systém	www.teraz.sk	15.1.2025
RNDr. Ján Budaj, DrSc.		IN	Veľký úspech: Tím zložený aj zo slovenských vedcov objavil hviezdu, ktorá pravdepodobne zničila vlastný planetárny systém	www.interez.sk	15.1.2025
RNDr. Ján Budaj, DrSc.	Jones D., Bernhard K., Munday, J.	IN	Descubierta una nebulosa que destruyó su sistema solar y conservó restos de un exoplaneta	Huelva Informacion, Tecnología y Ciencia - www.huelvainformacion.es	17.1.2025
RNDr. Ján Budaj, DrSc.	Jones D., Bernhard K., Munday, J.	IN	El IAC descubre un destructor de mundos, una nebulosa que arrasó su propio sistema solar	AtlanticoHoy.com	8.1.2025
RNDr. Ján Budaj, DrSc.	Jones D., Bernhard K., Munday, J.	TL	Trosky planét okolo hviezdy uprostred planetárnej hmloviny	Kozmos 56, 2025/4, s. 7	2025
RNDr. Ján Budaj, DrSc.	Jones, D., Bernhard, K., Munday, J.	IN	A Planetary Nebula that Destroyed its Planetary System	ING telescopes - www.ing.iac.es	24.1.2025
RNDr. Ján Budaj, DrSc.	Jones, D., Bernhard, K., Munday, J.	IN	Así es esta nebulosa que destruyó su sistema solar y conservó restos de un exoplaneta	Guatemala: 949nuevecuatronueve - 949.com.gt	8.1.2025
RNDr. Ján Budaj, DrSc.	Jones, D., Bernhard, K., Munday, J.	IN	Astronomers spot debris of obliterated worlds in planetary nebula	India: www.news9live.com	10.1.2025
RNDr. Ján Budaj, DrSc.	Jones, D., Bernhard, K., Munday, J.	IN	Cómo es que hay planetas en enanas blancas	Argentina - Pablo Della Paolera - paolera.wordpress.com	10.1.2025
RNDr. Ján Budaj, DrSc.	Jones, D., Bernhard, K., Munday, J.	IN	Descoberta inédita: nebulosa planetária destruiu sistema solar mas preservou restos de exoplaneta	SIC Notícias, TV - siconoticias.pt	11.1.2025
RNDr. Ján Budaj, DrSc.	Jones, D., Bernhard, K., Munday, J.	IN	Descoberta nebulosa que destruiu o seu sistema	CNN Portugal - cnnportugal.iol.pt	9.1.2025
RNDr. Ján Budaj, DrSc.	Jones, D., Bernhard, K., Munday, J.	IN	Descoberta nebulosa que destruiu o seu sistema solar e preservou restos de exoplaneta	dnoticiac - www.dnoticias.pt	9.1.2025
RNDr. Ján Budaj, DrSc.	Jones, D., Bernhard, K., Munday, J.	IN	Descoberta nebulosa que destruiu o seu sistema solar e preservou restos de exoplaneta	Observador - observador.pt	9.1.2025
RNDr. Ján Budaj,	Jones, D.,	IN	Descubierta una	Diario de Sevilla -	17.1.2025

DrSc.	Bernhard, K., Munday, J.		nebulosa que destruyó su sistema solar y conservó restos de un exoplaneta	www.diariodesevilla.es	
RNDr. Ján Budaj, DrSc.	Jones, D., Bernhard, K., Munday, J.	IN	Descubierta una nebulosa que destruyó su sistema solar y conservó restos de un exoplaneta	elDía de Codoba, Tecnología y Ciencia - www.eldiadicordoba.es	17.1.2025
RNDr. Ján Budaj, DrSc.	Jones, D., Bernhard, K., Munday, J.	IN	Descubierta una nebulosa que destruyó su sistema solar y conservó restos de un exoplaneta	EuropaSur, Tecnología y Ciencia - www.europasur.es	17.1.2025
RNDr. Ján Budaj, DrSc.	Jones, D., Bernhard, K., Munday, J.	IN	Descubren por primera vez restos de un planeta que sobrevivió a la violenta explosión de su estrella	El Dia - www.eldia.es	8.1.2025
RNDr. Ján Budaj, DrSc.	Jones, D., Bernhard, K., Munday, J.	IN	Descubren un exoplaneta convertido en polvo atrapado dentro de una nebulosa	Antena 3 - www.antena3.com	8.1.2025
RNDr. Ján Budaj, DrSc.	Jones, D., Bernhard, K., Munday, J.	IN	Descubren una nebulosa asesina que devoró su sistema solar y conservó restos de un exoplaneta en su interior	EFE-Agencia de noticias - efe.com	8.1.2025
RNDr. Ján Budaj, DrSc.	Jones, D., Bernhard, K., Munday, J.	IN	Descubren una nebulosa asesina que devoró su sistema solar y conservó restos de un exoplaneta en su interior	El Debate - www.eldebate.com	8.1.2025
RNDr. Ján Budaj, DrSc.	Jones, D., Bernhard, K., Munday, J.	IN	Descubren una nebulosa asesina que devoró su sistema solar y conservó restos de un exoplaneta en su interior	INVDES Investigación y Desarrollo - invdes.com.mx	10.1.2025
RNDr. Ján Budaj, DrSc.	Jones, D., Bernhard, K., Munday, J.	IN	Descubren una nebulosa planetaria que destruyó su propio sistema solar pero conserva escombros de un exoplaneta	msn.com/es-es	10.1.2025
RNDr. Ján Budaj, DrSc.	Jones, D., Bernhard, K., Munday, J.	IN	Descubren una nebulosa planetaria que destruyó su propio sistema solar pero conserva escombros de un exoplaneta	Peru: CentralTV - centraltv.pe	8.1.2025
RNDr. Ján Budaj, DrSc.	Jones, D., Bernhard, K., Munday, J.	IN	Descubren una nebulosa que destruye su sistema solar	Ecuador - www.expreso.ec	11.1.2025
RNDr. Ján Budaj, DrSc.	Jones, D., Bernhard, K., Munday, J.	IN	Descubren una nebulosa que destruyó su sistema solar	El Sumario - elsumario.com	8.1.2025
RNDr. Ján Budaj,	Jones, D.,	IN	Descubren una	NATXOS -	9.1.2025

DrSc.	Bernhard, K., Munday, J.		nebulosa que destruyó su sistema solar	natxos.com	
RNDr. Ján Budaj, DrSc.	Jones, D., Bernhard, K., Munday, J.	TL	El IAC descubre una nebulosa planetaria que destruyó su sistema solar conservando los restos de un exoplaneta en su interior	tlačové vyhlásenie - IAC press release on WeSb1	8.1.2025
RNDr. Ján Budaj, DrSc.	Jones, D., Bernhard, K., Munday, J.	IN	El polvo cósmico revela el colapso de un sistema solar en una nebulosa	Islas Informa - islasinforma.es	9.1.2025
RNDr. Ján Budaj, DrSc.	Jones, D., Bernhard, K., Munday, J.	IN	Hallazgo insólito: una nebulosa planetaria destruyó su sistema solar y conservó restos de un exoplaneta	Nova Ciencia - novaciencia.es	12.1.2025
RNDr. Ján Budaj, DrSc.	Jones, D., Bernhard, K., Munday, J.	IN	Restos de un Sistema Planetario en una Nebulosa	Head Topics - es.headtopics.com	8.1.2025
RNDr. Ján Budaj, DrSc.	Jones, D., Bernhard, K., Munday, J.	IN	The IAC discovers a planetary nebula that destroyed its solar system	Science Springs - sciencesprings.wordpr ess.com	8.1.2025
RNDr. Ján Budaj, DrSc.	Jones, D., Bernhard, K., Munday, J.	IN	Uma nebulosa planetária destruiu o seu sistema solar	Centro Ci?ncia Viva do Algarve - www.ccvalg.pt	10.1.2025
RNDr. Ján Budaj, DrSc.	Jones, D., Bernhard, K., Munday, J.	IN	Unprecedented discovery: planetary nebula destroyed solar system but preserved remains of exoplanet	Canada: LNG in Northern BC - lnginnorthernbc.ca	17.1.2025
RNDr. Ján Budaj, DrSc.	Jones, D., Bernhard, K., Munday, J.	IN	WeSB1: Über die entdeckung eines sterns, der sein planetensystem zerstört	The magazine of the astronomical association in Linz	2025
RNDr. Ján Budaj, DrSc.	Svoreň, J.	IN	Hviezda, ktorá zničila svoj planetárny systém	facebook.com/Astrono mickyustavSAV	14.1.2025
Mgr. Jakub Cehula, PhD.		TL	Zlaté „bane“ vo vesmíre: o pôvode zlata a ako nám v súčasnosti pomáha pri výskume vesmíru	recenzia popularizačného článku – Zajaček M., Československý časopis pro fyziku, 75 (2025), č. 5	2025
RNDr. Zoltán Garai, PhD.		PB	Exoplanéty a exoplanetárne sústavy	študenti pomaturitného štúdia astronómie, Slovenská ústredná hviezdáreň, Hurbanovo	10.4.2025
RNDr. Zoltán Garai, PhD.		PB	Galaktická a mimogalaktická astrofyzika	študenti pomaturitného štúdia astronómie, Slovenská ústredná hviezdáreň, Hurbanovo	15.5.2025
RNDr. Zoltán Garai, PhD.		TL	Planetárna sústava AU Microscopii: kozmičné laboratórium v priamom prenose	Kozmos 56, 2025/6, s. 26	2025

RNDr. Zoltán Garai, PhD.		PB	Premenné hviezdy a dvojhviezdy	študenti pomaturitného štúdia astronómie, Slovenská ústredná hviezdáreň, Hurbanovo	15.3.2025
RNDr. Zoltán Garai, PhD.		PB	Výskum exoplanét z vesmíru - misia ESA CHEOPS	účastníci Astronomickej výmeny skúseností, AsÚ SAV	6.8.2025
RNDr. Zoltán Garai, PhD.		PB	Základy hviezdnej fotometrie	študenti pomaturitného štúdia astronómie, Slovenská ústredná hviezdáreň, Hurbanovo	9.1.2025
RNDr. Zoltán Garai, PhD.		PB	Základy hviezdnej spektroskopie	študenti pomaturitného štúdia astronómie, Slovenská ústredná hviezdáreň, Hurbanovo	13.2.2025
RNDr. Zoltán Garai, PhD.	Bratko, B.	PB	Exoplanéty	členovia Astrovisum Klubu, on-line formou	27.3.2025
Mgr. Peter Gömöry, PhD.		EX	Čo robia astronómovia	pre MŠ Jarná v Poprade	25.11.2025
Mgr. Peter Gömöry, PhD.		PB	Kult Slnka a moderná astronómia	Metro/Arch Camp, Poprad	11.6.2025
Mgr. Peter Gömöry, PhD.		PB	Rozprávanie o vesmíre	Gymnázium D. Tatarku, Poprad	12.11.2025
Mgr. Peter Gömöry, PhD.		PB	Slnčná sústava	Gymnázium D. Tatarku, Poprad	12.11.2025
Mgr. Peter Gömöry, PhD.		PB	Slnko – naša superhviezda	Vedecká kaviareň, Košice	26.3.2025
Mgr. Peter Gömöry, PhD.		PB	Slnko – naša úžasná hviezda	Vivat Scentia! Nech žije veda! – cyklus prednášok organizovaných SAV v Rožňave	26.6.2025
Mgr. Peter Gömöry, PhD.		PB	Vznik a vývoj vesmíru	Gymnázium D. Tatarku, Poprad	12.11.2025
Mgr. Peter Gömöry, PhD.	Beňo, M.	IN	Slovak companies and scientists could play crucial role in new European telescope	The Slovak Spectator	28.8.2025
Mgr. Peter Gömöry, PhD.	Jakubík, M.	EX	O práci na Astronomickom ústave SAV	AsÚ SAV, pre predstaviteľov spoločnosti ESET	6.5.2025
Mgr. Peter Gömöry, PhD.	Jakubík, M.	EX	Výskum na Astronomickom ústave SAV, v. v. i.	AsÚ SAV, exkurzia pre pracovníkov ESA Headquarters, Noordwijk (Holandsko) v sprievode pracovníčok Ministerstva školstva SR	12.6.2025
Mgr. Peter Gömöry, PhD.	Mareš, G.	TV	Prečo sa slnečná plazma pohybuje extrémne rýchlo?	VAT: Veda a technika, RTVS	25.1.2025
Mgr. Peter Gömöry, PhD.	Múčková, S.	IN	EST Slovakia Infoday. Ako sa zapojiť do výstavby	Aktuality webu SAV	19.6.2025

			najväčšieho slnečného ďalekohľadu v Európe		
Mgr. Peter Gömöry, PhD.	Múčková, S., Gáliková, K.	IN	Slovenské firmy prejavili záujem zapojiť sa do projektu EST	Aktuality webu SAV	26.6.2025
Mgr. Peter Gömöry, PhD.	Rybák, J.	PB	O práci Observatória Lomnický štít AsÚ SAV	Observatórium Lomnický štít AsÚ SAV, exkurzia pre pracovníkov ESA Headquarters, Noordwijk (Holandsko) v sprievode pracovníčok Ministerstva školstva SR	12.6.2025
Mgr. Peter Gömöry, PhD.	Rybák, J., Trembáč, M.	PB	O práci Observatória Lomnický štít AsÚ SAV	Observatórium Lomnický štít AsÚ SAV, exkurzia pre prezidentov Poľska a Slovenska, p. A. Dudu a P. Pellegriniho so sprievodom	1.4.2025
Mgr. Peter Gömöry, PhD.	Vaculová, I.	RO	Vedecká kaviareň - Slnko naša superhviezda	Rádio Regina Východ	26.3.2025
RNDr. Mária Hajduková, PhD.		PB	Jej veda, jej príbeh	interview pre študentskú súťaž SAVIA, Gymnázium Grösslingova, Bratislava	20.10.2025
RNDr. Mária Hajduková, PhD.		PB	Vesmírne balvany alebo sondy mimozemských civilizácií?	Gymnázium Grösslingova, Bratislava	3.9.2025
Mgr. Ľubomír Hambálek, PhD.		TV	Aktuálne o hviezde T Coronae Borealis	STVR, rozhovor STVR 24	11.1.2025
Mgr. Ľubomír Hambálek, PhD.		TL	Objav starej dvojhviezdy pomocou rádioteleskopu	Kozmos 56, 2025/4, s. 45	2025
Mgr. Ľubomír Hambálek, PhD.		EX	Pozorovacie metódy v observatóriu v Starej Lesnej	AsÚ SAV, verejnosť, Košice	12.9.2025
Mgr. Ľubomír Hambálek, PhD.		EX	Výskum na Astronomickom ústave SAV, v. v. i.	Kúpele Horný Smokovec	30.4.2025
Mgr. Ľubomír Hambálek, PhD.	Kováčová, M., Kundra, E., Shagatova, N.	EX	Pozorovacie metódy v observatóriu v Starej Lesnej	verejnosť	14.11.2025
Mgr. Ľubomír Hambálek, PhD.	Kundra, E.	EX	Pozorovanie hviezd a nočnej oblohy	pozorovanie pre hostí hotela KC Academia	1.3.2025
Mgr. Ľubomír Hambálek, PhD.	Shagatova, N.	EX	Čo ukrývajú hviezdičky	ZŠ s MŠ, Komenského ulica 587/15, Poprad	23.6.2025
Mgr. Ľubomír Hambálek, PhD.	Shagatova, N.	EX	Pozorovacie metódy v observatóriu v Starej Lesnej	ZŠ s MŠ, Holumnica č. 121, 059 94, a verejnosť Zvolen	11.11.2025
Mgr. Ľubomír Hambálek, PhD.	Shagatova, N.	EX	Pozorovacie metódy v observatóriu v Starej Lesnej	ZŠ s MŠ, Školská 339, 032 61 Važec	12.11.2025

Mgr. Ľubomír Hambálek, PhD.	Shagatova, N.	EX	Výskum na Astronomickom ústave SAV, v. v. i.	Gymnázium F. V. Sasinka, Námestie slobody č. 3, 909 01 Skalica	14.1.2025
Mgr. Marek Husárik, PhD.		TL	Ambiciózny krok do vesmíru	Quark 7/2025	8.7.2025
Mgr. Marek Husárik, PhD.		IN	Polotieňové zatmenie Mesiaca nastane v piatok nadránom.	Veda na dosah	11.3.2025
Mgr. Marek Husárik, PhD.		IN	Tretí medzihviezdny návštevník pozorovaný slovenskými astronómami	Veda na dosah	10.7.2025
Mgr. Marek Husárik, PhD.		TL	Vesmírne baníctvo realitou?	Quark 9/2025	26.9.2025
Mgr. Marek Husárik, PhD.	Vítková, Z.	IN	Riziko zrážky asteroidu so Zemou rastie. Apokalypsa však z toho nebude.	Denník N	7.2.2025
RNDr. Richard Komžík, CSc.		EX	O práci Observatória Skalnaté pleso AsÚ SAV	Observatórium Skalnaté Pleso, Astronomický klub, Bratislava	5.8.2025
RNDr. Richard Komžík, CSc.		EX	O práci Observatória Skalnaté pleso AsÚ SAV	Observatórium Skalnaté Pleso, Centrum pre rodiny a deti, Valaská	9.6.2025
RNDr. Richard Komžík, CSc.		EX	O práci Observatória Skalnaté pleso AsÚ SAV	Observatórium Skalnaté pleso, pracovníci Planetária Ostrava, Ostrava	18.8.2025
RNDr. Richard Komžík, CSc.		EX	O práci Observatória Skalnaté pleso AsÚ SAV	Observatórium Skalnaté pleso, Škola pre nadané deti, ŠpMNDaG, Bratislava	24.9.2025
RNDr. Richard Komžík, CSc.		EX	O práci Observatória Skalnaté pleso AsÚ SAV	Observatórium Skalnaté pleso, ZŠ Mirka Nešpora, Prešov	11.6.2025
RNDr. Richard Komžík, CSc.	Gömöry, P.	EX	O práci Observatória Skalnaté pleso AsÚ SAV	Observatórium Skalnaté pleso, pracovníci Ministerstva školstva a ESA	12.6.2025
RNDr. Richard Komžík, CSc.	Kučera, A.	EX	O práci Observatória Skalnaté pleso AsÚ SAV	Observatórium Skalnaté pleso, Astroklub	21.8.2025
RNDr. Martina Kováčová, PhD.	Kundra, E.	EX	Pozorovacie metódy v observatóriu v Starej Lesnej	Spojená škola, Letná 3453/34, 058 01 Poprad	12.11.2025
RNDr. Martina Kováčová, PhD.	Neslušan, L., Tomko, D.	PB	Hľadanie materského telesa meteorického roja Fénicidy (#254; PHO)	Astroworkshop 2025, AGO Modra	12.4.2025
Mgr. Július Koza, PhD.		PB	Noc pod hviezdou oblohou – Skalnaté Pleso	Večera pod hviezdami TMR, Skalnaté Pleso	4.1.2025
Mgr. Július Koza, PhD.		PB	Noc pod hviezdou oblohou – Skalnaté Pleso	Večera pod hviezdami TMR, Skalnaté Pleso	15.2.2025
Mgr. Július Koza, PhD.		PB	Noc pod hviezdou oblohou – Skalnaté	Večera pod hviezdami TMR, Skalnaté Pleso	1.3.2025

			Pleso		
Mgr. Július Koza, PhD.		PB	Noc pod hviezdou oblohou – Skalnaté Pleso	Večera pod hviezdami TMR, Skalnaté Pleso	24.3.2025
Mgr. Július Koza, PhD.		PB	Noc pod hviezdou oblohou – Skalnaté Pleso	Večera pod hviezdami TMR, Skalnaté Pleso	10.5.2025
Mgr. Július Koza, PhD.		PB	Slnčné erupcie zblízka: magnetizmus erupčných oblúkov	Astronomický klub Bratislava	8.8.2025
Mgr. Július Koza, PhD.	Adamčák, J., Shagatova, N.	EX	Pozorovacie metódy v observatóriu v Starej Lesnej	účastníci konferencie "VII. Labuda's days"	16.6.2025
RNDr. Aleš Kučera, CSc.		PB	Slnko naša najbližšia hviezda	AsÚ SAV, Týždeň vedy a techniky, ZŠ s MŠ Holumnica č. 121, 059 94	11.11.2025
RNDr. Aleš Kučera, CSc.		PB	Slnko naša najbližšia hviezda	AsÚ SAV, Týždeň vedy a techniky, ZŠ, Školská 7/6, 059 95 Toporec	10.11.2025
RNDr. Aleš Kučera, CSc.		PB	Slnko naša najbližšia hviezda	AsÚ SAV, Týždeň vedy a techniky, ZŠ Tatranská Lomnica 14123, Vysoké Tatry	10.11.2025
RNDr. Aleš Kučera, CSc.		PB	Slnko naša najbližšia hviezda	Spoločenstvo vlastníkov bytov, blok Fialka, Poprad	13.2.2025
Mgr. Emil Kundra, PhD.		EX	Pozorovacie metódy v observatóriu v Starej Lesnej	Astronomický klub Bratislava	8.8.2025
Mgr. Emil Kundra, PhD.		EX	Pozorovacie metódy v observatóriu v Starej Lesnej	Ústav teoretickej fyziky a astrofyziky Masarykovej univerzity a Fyzikálny ústav Akadémie vied ČR	25.9.2025
Mgr. Emil Kundra, PhD.	Adamčák J.	EX	Pozorovacie metódy v observatóriu v Starej Lesnej	ZŠ, Školská 7/6, 059 95 Toporec	10.11.2025
Mgr. Emil Kundra, PhD.	Benko, M.	EX	Pozorovacie metódy v observatóriu v Starej Lesnej	ZŠ s MŠ, Jarná ulica 3168/13, 058 01 Poprad, a ZŠ s MŠ, Ždiar	13.11.2025
Mgr. Emil Kundra, PhD.	Kováčová, M.	EX	Pozorovacie metódy v observatóriu v Starej Lesnej	Spojená škola, Letná 3453/34, 058 01 Poprad	12.11.2025
Mgr. Emil Kundra, PhD.	Voitko, A.	EX	Výskum na Astronomickom ústave SAV, v. v. i.	ZŠ, L. Kossutha 580/56, 077 01 Kráľovský Chlmec	15.5.2025
RNDr. Luboš Neslušan, CSc.		TL	Meteorické dátové stredisko Medzinárodnej astronomickej únie	Kozmos 4 (2025), str. 39-40	2025
RNDr. Theodor Pribulla, CSc.		TL	Ani hviezda Betelgeuse nie je osamelá	Kozmos 56, 2025/5, s. 5	2025
RNDr. Theodor Pribulla, CSc.		TL	ICRS: J2000.0 navždy	Kozmos 56, 2025/2, s. 40-41	2025
RNDr. Theodor Pribulla, CSc.		TL	Misia GAIA: pozorovania skončili, „žatva“ výsledkov	Kozmos 56, 2025/4, s. 12-14	2025

			pokračuje		
RNDr. Theodor Pribulla, CSc.		TL	Okolodvojhviezdna planéta na kolmej dráhe	Kozmos 56, 2025/4, s. 4-5	2025
RNDr. Theodor Pribulla, CSc.		TL	Prvá dvojhviezda pri supermasívnej čiernej diere Sgr A*	Kozmos 56, 2025/2, s. 8-9	2025
RNDr. Theodor Pribulla, CSc.	Adamčák, J., Sivanič, P, Tomko, D.	EX	Dni otvorených dverí na observatóriu Skalnaté Pleso	Observatórium Skalnaté Pleso, verejnosť	9.8.2025
RNDr. Theodor Pribulla, CSc.	Kundra, E.	EX	Odborný program na AsÚ SAV - pozorovanie nočnej oblohy v pavilóne G2	Komisia pre koordináciu aktivít SR vo výsk. infraštruktúrach ESFRI v oblasti fyz. vied, materiál. vied a energ. zar.	8.10.2025
RNDr. Theodor Pribulla, CSc.	Vaňko, M.	EX	O práci Observatória Skalnaté pleso AsÚ SAV	Observatórium Skalnaté Pleso, pracovníci AsÚ AV ČR Ondřejov a MFF UK Praha	23.6.2025
RNDr. Vojtech Rušin, DrSc.		PB	Čierne Slnko nad Saharou	AsÚ SAV, návštevníci Kiwanis klubu	20.3.2025
RNDr. Vojtech Rušin, DrSc.		PB	Čierne Slnko nad Saharou	XLVI. Dni radiačnej techniky 2025, hotel Satel, Poprad	11.11.2025
RNDr. Vojtech Rušin, DrSc.		PB	Za čiernym Slnkom po svete	Penzión Teniscentrum, Tatranská Lomnica	28.6.2025
RNDr. Ján Rybák, CSc.		IN	Na Lomnickom štíte sa skončil LSO Summer Internship Program 2025	Aktuality webu SAV	20.10.2025
RNDr. Ján Rybák, CSc.		PB	O práci Observatória Lomnický štít AsÚ SAV	exkurzia pre pracovníkov Oddelenia radiačnej hygieny, Fakulta verejného zdravotníctva, SZU Bratislava	5.2.2025
RNDr. Ján Rybák, CSc.		PB	O práci Observatória Lomnický štít AsÚ SAV	exkurzia pre pracovníkov Úradu pre ochranu ústavných činiteľov a diplomatických misií a Odboru protokolu prezidentskej kancelárie	20.3.2025
RNDr. Ján Rybák, CSc.		PB	O práci Observatória Lomnický štít AsÚ SAV	Observatórium Lomnický štít AsÚ SAV, exkurzia pre astronóma-amatéra M. Kaveckého a astrofotografa O. Králíka	8.2.2025
RNDr. Ján Rybák, CSc.		PB	O práci Observatória Lomnický štít AsÚ SAV	Observatórium Lomnický štít AsÚ SAV, exkurzia pre Betlehémcov Spišskej diecézy vedených	21.12.2025

				biskupom F. Trstenským	
RNDr. Ján Rybák, CSc.		PB	O práci Observatória Lomnický štít AsÚ SAV	Observatórium Lomnický štít AsÚ SAV, exkurzia pre členov vedenia VÚB banky, Bratislava	18.9.2025
RNDr. Ján Rybák, CSc.		PB	O práci Observatória Lomnický štít AsÚ SAV	Observatórium Lomnický štít AsÚ SAV, exkurzia pre pracovníkov SHMÚ	14.6.2025
RNDr. Ján Rybák, CSc.		PB	O práci Observatória Lomnický štít AsÚ SAV	Observatórium Lomnický štít AsÚ SAV, exkurzia pre pracovníkov Ústavu vied o Zemi SAV, Bratislava	17.3.2025
RNDr. Ján Rybák, CSc.		PB	O práci Observatória Lomnický štít AsÚ SAV	Observatórium Lomnický štít AsÚ SAV, exkurzia pre účastníkov konferencie XLVI. DNI RADIAČNEJ OCHRANY, hotel Satel, Poprad	19.11.2025
RNDr. Ján Rybák, CSc.		PB	O práci Observatória Lomnický štít AsÚ SAV	Observatórium Lomnický štít AsÚ SAV, exkurzia pre účastníkov podujatia organizácie SLOVAKIA Travel pre médiá	15.12.2025
RNDr. Ján Rybák, CSc.		PB	O práci Observatória Lomnický štít AsÚ SAV	Observatórium Lomnický štít AsÚ SAV, exkurzia pre víťazku diváckej súťaže Cena verejnosti 2025 ESET Science Award	13.7.2025
RNDr. Ján Rybák, CSc.	Benko, M., Langer, R.	EX	Dni otvorených dverí na Observatóriu Lomnický štít	Observatórium Lomnický štít AsÚ SAV, verejnosť	9.8.2025
RNDr. Ján Rybák, CSc.	Slivenský, J., Eliášová, Z.	TV	Tatry lákajú výhľadmi aj vedou. Lomnický štít je domovom najvyššieho observatória, kde vedci sledujú Slnko	reportáž v TV TA3	24.12.2025
RNDr. Ján Rybák, CSc.	Trembáč, M., Langer, R.	PB	O práci Observatória Lomnický štít AsÚ SAV	Observatórium Lomnický štít AsÚ SAV, exkurzia pre vedenie spoločnosti ESET a vedenie Nadácie ESET	5.5.2025
Mgr. Natalia Shagatova, PhD.		PB	Astrofyzici za mier	ZŠ s MŠ, Školská 339, 032 61 Važec	12.11.2025
Mgr. Natalia Shagatova, PhD.		EX	Výskum na Astronomickom ústave SAV, v. v. i.	AsÚ SAV, Gréckokatolícka farnosť Humenné	29.11.2025
Mgr. Natalia Shagatova, PhD.		EX	Výskum na Astronomickom ústave SAV, v. v. i.	AsÚ SAV, verejnosť, Bobrov	11.4.2025

Mgr. Natalia Shagatova, PhD.		EX	Výskum na Astronomickom ústave SAV, v. v. i.	AsÚ SAV, verejnosť, Košice	17.2.2025
Mgr. Natalia Shagatova, PhD.		EX	Výskum na Astronomickom ústave SAV, v. v. i.	AsÚ SAV, verejnosť, Košice	22.8.2025
Mgr. Natalia Shagatova, PhD.		EX	Výskum na Astronomickom ústave SAV, v. v. i.	AsÚ SAV, verejnosť, Poprad	2.5.2025
Mgr. Natalia Shagatova, PhD.		EX	Výskum na Astronomickom ústave SAV, v. v. i.	Gymnázium, Kukučínova 4239/1, 058 39 Poprad	14.10.2025
Mgr. Natalia Shagatova, PhD.		EX	Výskum na Astronomickom ústave SAV, v. v. i.	Spojená škola, Kostolné námestie 28, 060 01 Kežmarok	22.5.2025
Mgr. Natalia Shagatova, PhD.	Adamčák, J.	EX	Čo ukrývajú hviezdičky	MŠ pri ZŠ, Ul. Jarná 3293/16, 058 01 Poprad	21.5.2025
Mgr. Natalia Shagatova, PhD.	Benko, M., Kaňuchová, Z., Kundra, E., Dubjel, V.	iné	My sme SAV	Bratislava, vedecký stánok, verejnosť	13.6.2025
Mgr. Natalia Shagatova, PhD.	Budaj, J., Kaňuchová, Z., Pribulla, T.	EX	Dni otvorených dverí na Observatóriu Skalnaté Pleso	Observatórium Skalnaté Pleso, verejnosť	19.7.2025
Mgr. Natalia Shagatova, PhD.	Hambálek, L.	EX	Čo ukrývajú hviezdičky	ZŠ s MŠ, Komenského ulica 587/15, Poprad	23.6.2025
Mgr. Natalia Shagatova, PhD.	Hambálek, L.	EX	Výskum na Astronomickom ústave SAV, v. v. i.	Stredná zdravotnícka škola, Levočská 5, 058 01 Poprad	23.6.2025
Mgr. Natalia Shagatova, PhD.	Hambálek, L., Orikhovskiy, D., Voitko, A.	iné	Sila drobných zmien v rozľahlom vesmíre - vedecký stánok	Európska noc vedy 2025, OC MAX Poprad	26.9.2025
Mgr. Natalia Shagatova, PhD.	Komžík, R.	EX	O práci Observatória Skalnaté pleso AsÚ SAV	příprava pre nakrúcanie scény filmu, filmári z Talianska	27.10.2025
Mgr. Natalia Shagatova, PhD.	Tóthezere, A.	RO	Čiastočné zatmenie Slnka 29.3.2025	Rádio Slovensko	28.3.2025
Sergey Shugarov, CSc.		EX	Výskum na Astronomickom ústave SAV, v. v. i.	pre pracovníkov FMFI UK Bratislava	1.1.2025
Sergey Shugarov, CSc.		EX	Výskum na Astronomickom ústave SAV, v. v. i.	pre pracovníkov UPJŠ Košice	28.5.2025
Sergey Shugarov, CSc.		EX	Výskum na Astronomickom ústave SAV, v. v. i.	pre pracovníkov UPJŠ Košice	18.12.2025
Sergey Shugarov, CSc.		EX	Výskum na Astronomickom ústave SAV, v. v. i.	verejnosť	13.5.2025
doc. RNDr. Ján Svoreň, DrSc.		PB	15 rokov od pádu meteoritu Košice	vystúpenie na pódiu, Zaži vedu so SAV, Košice	15.5.2025
doc. RNDr. Ján Svoreň, DrSc.		IN	3I/ATLAS nie je koráb mimozemšťanov, ale medzihviezdna kométa	facebook.com/AstronomickyustavSAV	8.9.2025

doc. RNDr. Ján Svoreň, DrSc.		TL	Ako rýchlo starnú kométy	Kozmos 56, 2025/4, s. 21-23	2025
doc. RNDr. Ján Svoreň, DrSc.		IN	Ako vzniká röntgenové žiarenie komét?	vedanadosah.cvtisr.sk	28.1.2025
doc. RNDr. Ján Svoreň, DrSc.		IN	Arrokoth – bájna zem na konci sveta	vedanadosah.cvtisr.sk	26.2.2025
doc. RNDr. Ján Svoreň, DrSc.		IN	Asteroidy pozorované pred dopadom na Zem	vedanadosah.cvtisr.sk	2.4.2025
doc. RNDr. Ján Svoreň, DrSc.		TL	Astrometria – metóda merania polôh nebeských telies sa stále zlepšuje	Kozmos 56, 2025/2, s. 29-31	2025
doc. RNDr. Ján Svoreň, DrSc.		TL	Astronómovia zaznamenali kométu s najväčšou vzdialenosťou perihélia	Kozmos 56, 2025/3, s. 54	2025
doc. RNDr. Ján Svoreň, DrSc.		IN	Astronómovia zo SAV: Žiadni mimozemšťania nás nenavštívia	www.kosiceonline.sk	10.9.2025
doc. RNDr. Ján Svoreň, DrSc.		IN	Bahenné sopky na trpasličej planéte Ceres sú stále aktívne	vedanadosah.cvtisr.sk	25.4.2025
doc. RNDr. Ján Svoreň, DrSc.		IN	Čaká nás ďalšie vesmírne divadlo: Spln Mesiaca i jeho zatmenie	www1.pluska.sk	11.3.2025
doc. RNDr. Ján Svoreň, DrSc.		IN	Čína po lunárnej misii mieri k asteroidu, ktorý sa mohol odlúpiť z Mesiaca	vedanadosah.cvtisr.sk	25.7.2025
doc. RNDr. Ján Svoreň, DrSc.		IN	Čo môžete vidieť na oblohe v druhom štvrtroku 2025	www.astro.sk/ astronews	7.4.2025
doc. RNDr. Ján Svoreň, DrSc.		IN	Čo môžete vidieť na oblohe v prvom štvrtroku 2025	www.astro.sk/ astronews	2.1.2025
doc. RNDr. Ján Svoreň, DrSc.		IN	Čo môžete vidieť na oblohe v prvom štvrtroku 2026	www.astro.sk/ astronews	29.12.2025
doc. RNDr. Ján Svoreň, DrSc.		IN	Čo môžete vidieť na oblohe v treťom štvrtroku 2025	www.astro.sk/ astronews	3.7.2025
doc. RNDr. Ján Svoreň, DrSc.		IN	Čo môžete vidieť na oblohe vo štvrtom štvrtroku 2025	www.astro.sk/ astronews	29.9.2025
doc. RNDr. Ján Svoreň, DrSc.		IN	Dnes si aj z vášho okna budete môcť pozrieť polárnu žiaru, nesmiete však zaspať hneď po správach	www.bystricak.sk	1.9.2025
doc. RNDr. Ján Svoreň, DrSc.		IN	Dnes si aj z vášho okna budete môcť pozrieť polárnu žiaru, nesmiete však zaspať hneď po správach	www.kosicak.sk	1.9.2025
doc. RNDr. Ján Svoreň, DrSc.		IN	Dnes si aj z vášho okna budete môcť pozrieť polárnu žiaru,	www.nitrak.sk	1.9.2025

			nesmieste však zaspáť hneď po správach		
doc. RNDr. Ján Svorenň, DrSc.		IN	Dnes si aj z vášho okna budete môcť pozrieť polárnu žiaru, nesmieste však zaspáť hneď po správach	www.presovak.sk	1.9.2025
doc. RNDr. Ján Svorenň, DrSc.		IN	Dnes si aj z vášho okna budete môcť pozrieť polárnu žiaru, nesmieste však zaspáť hneď po správach	www.trencinak.sk	1.9.2025
doc. RNDr. Ján Svorenň, DrSc.		IN	Dnes si aj z vášho okna budete môcť pozrieť polárnu žiaru, nesmieste však zaspáť hneď po správach	www.trnavak.sk	1.9.2025
doc. RNDr. Ján Svorenň, DrSc.		TL	Dopad asteroidu v archaiku podporil rozvoj života	Kozmos 56, 2025/1, s. 3-5	2025
doc. RNDr. Ján Svorenň, DrSc.		TL	ESA nainštalovala na ISS najmodernejšie atómové hodiny na svete	Kozmos 56, 2025/4, s. 3-4	2025
doc. RNDr. Ján Svorenň, DrSc.		IN	Halova-Boppova kométa: Objavili ju pred tridsiatimi rokmi	vedanadosah.cvtisr.sk	2.9.2025
doc. RNDr. Ján Svorenň, DrSc.		TL	Inventarizácia Slnečnej sústavy k 31.12.2024	Kozmos 56, 2025/2, s. 13	2025
doc. RNDr. Ján Svorenň, DrSc.		TL	Je asteroid 2024 YR4 na kolíznej dráhe so Zemou?	Kozmos 56, 2025/2, s. 5-6	2025
doc. RNDr. Ján Svorenň, DrSc.		TL	Kométa 3I/ATLAS – Tretie teleso z medzihviezdneho priestoru	Kozmos 56, 2025/5, s. 6-9	2025
doc. RNDr. Ján Svorenň, DrSc.		IN	Kométa C/2025 A6 Lemmon je v týchto dňoch na hranici viditeľnosti voľným okom	www.sav.sk - Aktuality	22.10.2025
doc. RNDr. Ján Svorenň, DrSc.		IN	Kométy sú známe vďaka svojim chvostom. Niektoré dosahujú ohromujúcu dĺžku	vedanadosah.cvtisr.sk	26.9.2025
doc. RNDr. Ján Svorenň, DrSc.		TL	Koncom týždňa nastane zatmenie Slnka	Pravda, s. 3	25.3.2025
doc. RNDr. Ján Svorenň, DrSc.		TL	Lemmo	Zlatomoravsko, číslo 44/2025; str. 2	31.10.2025
doc. RNDr. Ján Svorenň, DrSc.		IN	Meteorický roj Geminid má priaznivé podmienky na pozorovanie	www.sav.sk – Aktuality	12.12.2025
doc. RNDr. Ján Svorenň, DrSc.		IN	Meteorický roj Geminid vrcholí. Podmienky na pozorovanie sú priaznivé	vat.pravda.sk	13.12.2025

doc. RNDr. Ján Svoreň, DrSc.		TL	Miznúce rieky, skryté jazerá, nekonečné hľadanie vody na Marse	Kozmos 56, 2025/3, s. 19-21	2025
doc. RNDr. Ján Svoreň, DrSc.		TL	Na Jupiterovom mesiaci Európa je oceán pokrytý mimoriadne hrubým ľadom	Kozmos 56, 2025/2, s. 7-8	2025
doc. RNDr. Ján Svoreň, DrSc.		IN	Na oblohe budú Lyridy, lepšie ich uvidíte po Veľkonočných sviatkoch	facebook.com/AstronomickyustavSAV	18.4.2025
doc. RNDr. Ján Svoreň, DrSc.		IN	Na oblohe budú Lyridy, lepšie ich uvidíte po Veľkonočných sviatkoch	www.astro.sk	17.4.2025
doc. RNDr. Ján Svoreň, DrSc.		IN	Na oblohe možno pozorovať meteorický roj Geminíd	bleskovky.zoznam.sk	13.12.2025
doc. RNDr. Ján Svoreň, DrSc.		IN	Na oblohe možno pozorovať meteorický roj Geminíd	www.hlavnespravy.sk	13.12.2025
doc. RNDr. Ján Svoreň, DrSc.		IN	Na oblohe možno pozorovať meteorický roj Geminíd	www.info.sk	13.12.2025
doc. RNDr. Ján Svoreň, DrSc.		IN	Na oblohe možno pozorovať meteorický roj Geminíd	www.sme.sk	13.12.2025
doc. RNDr. Ján Svoreň, DrSc.		TL	Naša planetárna sústava nie je taká nezvyčajná, ako sme si mysleli	Kozmos 56, 2025/3, s. 6-7	2025
doc. RNDr. Ján Svoreň, DrSc.		IN	Nebeské divadlo: Na oblohe možno pozorovať meteorický roj Geminíd	www.teraz.sk	13.12.2025
doc. RNDr. Ján Svoreň, DrSc.		IN	Nebeské divadlo: Na oblohe možno pozorovať meteorický roj Geminíd	zilina.sp21.sk	12.12.2025
doc. RNDr. Ján Svoreň, DrSc.		IN	Nezmeškajte vesmírne divadlo: Meteorický roj Geminíd vrcholí už dnes v noci, podmienky na pozorovanie sú ideálne	www.aktuality.sk	13.12.2025
doc. RNDr. Ján Svoreň, DrSc.		IN	Objavenie röntgenového žiarenia pri pozorovaní kométy Hyakutake uviedlo do pomykova aj odborníkov	facebook.com/AstronomickyustavSAV	28.1.2025
doc. RNDr. Ján Svoreň, DrSc.		IN	Obloha plná meteorov: Roj Geminíd dosiahne svoj vrchol už tento víkend	www.topky.sk	13.12.2025
doc. RNDr. Ján Svoreň, DrSc.		PB	Od padajúcich hviezd k zrnkám	Spojená škola, Letná 3453/34, 058 01	12.11.2025

			medziplanetárneho prachu	Poprad	
doc. RNDr. Ján Svoreň, DrSc.		TL	Odber mesačných vzoriek medzi 10 najvýznamnejšími fyzikálnymi objavmi roka 2024 (Kozmos v bodke)	Kozmos 56, 2025/2, s. 14	2025
doc. RNDr. Ján Svoreň, DrSc.		TL	Ohrozená čistá obloha nad Paranal Observatóriou	Kozmos 56, 2025/2, s. 3-5	2025
doc. RNDr. Ján Svoreň, DrSc.		IN	Počas celého leta možno na oblohe pozorovať Venušu, tvrdí SAV	dennikn.sk	7.6.2025
doc. RNDr. Ján Svoreň, DrSc.		TL	Pozorujte kométu Lemmon	Banskobystricko, číslo 44/2025; str. 2	31.10.2025
doc. RNDr. Ján Svoreň, DrSc.		TL	Pozorujte kométu Lemmon	Bratislavsko - východ, číslo 44/2025; str. 6	31.10.2025
doc. RNDr. Ján Svoreň, DrSc.		TL	Pozorujte kométu Lemmon	Bratislavsko - západ, regionálne noviny, číslo 44/2025; str. 2	31.10.2025
doc. RNDr. Ján Svoreň, DrSc.		TL	Pozorujte kométu Lemmon	Košicko, číslo 44/2025; str. 7	31.10.2025
doc. RNDr. Ján Svoreň, DrSc.		TL	Pozorujte kométu Lemmon	Levicko, číslo 44/2025; str. 2	31.10.2025
doc. RNDr. Ján Svoreň, DrSc.		TL	Pozorujte kométu Lemmon	Liptovsko, číslo 44/2025; str. 7	31.10.2025
doc. RNDr. Ján Svoreň, DrSc.		TL	Pozorujte kométu Lemmon	Lubovniansko, číslo 44/2025; str. 2	31.10.2025
doc. RNDr. Ján Svoreň, DrSc.		TL	Pozorujte kométu Lemmon	Malacko, číslo 44/2025; str. 4	31.10.2025
doc. RNDr. Ján Svoreň, DrSc.		TL	Pozorujte kométu Lemmon	Nitriansko, číslo 44/2025; str. 2	31.10.2025
doc. RNDr. Ján Svoreň, DrSc.		TL	Pozorujte kométu Lemmon	Novozámocko, číslo 44/2025; str. 1	31.10.2025
doc. RNDr. Ján Svoreň, DrSc.		TL	Pozorujte kométu Lemmon	Oravsko, číslo 44/2025; str. 11	31.10.2025
doc. RNDr. Ján Svoreň, DrSc.		TL	Pozorujte kométu Lemmon	Popradsko, číslo 44/2025; str. 8	31.10.2025
doc. RNDr. Ján Svoreň, DrSc.		TL	Pozorujte kométu Lemmon	Prešovsko, číslo 44/2025; str. 12	31.10.2025
doc. RNDr. Ján Svoreň, DrSc.		TL	Pozorujte kométu Lemmon	Priedvidzsko, číslo 44/2025; str. 2	31.10.2025
doc. RNDr. Ján Svoreň, DrSc.		TL	Pozorujte kométu Lemmon	Spišsko, číslo 44/2025; str. 4	31.10.2025
doc. RNDr. Ján Svoreň, DrSc.		TL	Pozorujte kométu Lemmon	Topoľčiansko, číslo 44/2025; str. 2	31.10.2025
doc. RNDr. Ján Svoreň, DrSc.		TL	Pozorujte kométu Lemmon	Trenčiansko, číslo 44/2025; str. 2	31.10.2025
doc. RNDr. Ján Svoreň, DrSc.		TL	Pozorujte kométu Lemmon	Zvolensko, číslo 44/2025; str. 4	31.10.2025
doc. RNDr. Ján Svoreň, DrSc.		TL	Pozorujte kométu Lemmon	Žiarsko, číslo 44/2025; str. 2	31.10.2025

doc. RNDr. Ján Svoreň, DrSc.		TL	Prvί vesmírni stroskotanci	Kozmos 56, 2025/3, s. 3-5	2025
doc. RNDr. Ján Svoreň, DrSc.		IN	Saturnove prstence vznikli nedávno, z kozmického hľadiska sú mladými útvarmi	vedanadosah.cvtisr.sk	25.11.2025
doc. RNDr. Ján Svoreň, DrSc.		TL	Sonda Tianwen-2 preskúma asteroid aj kométu	Kozmos 56, 2025/5, s. 3-4	2025
doc. RNDr. Ján Svoreň, DrSc.		IN	Stanovisko Astronomického ústavu SAV, v.v.i. v Tatranskej Lomnici k povahe medzihviezdneho objektu 3I/ATLAS	www.astro.sk	8.9.2025
doc. RNDr. Ján Svoreň, DrSc.		IN	Sústavy ľadových obrov: Čo (ne)vieme o Uráne a Neptúne	vedanadosah.cvtisr.sk	28.10.2025
doc. RNDr. Ján Svoreň, DrSc.		IN	Už zajtra uvidíte zákryt Saturna Mesiacom	facebook.com/AstronomickyustavSAV	3.1.2025
doc. RNDr. Ján Svoreň, DrSc.		IN	V kometárnych atmosférach sa nachádzajú stopy železa a niklu	vedanadosah.cvtisr.sk	24.6.2025
doc. RNDr. Ján Svoreň, DrSc.		IN	V piatok nastane čiastočné zatmenie Slnka, viditeľné bude aj zo Slovenska	dennikn.sk	25.3.2025
doc. RNDr. Ján Svoreň, DrSc.		IN	V piatok nastane zatmenie Mesiaca. Zo Slovenska bude viditeľné ráno, aj to len čiastočne	denn	11.3.2025
doc. RNDr. Ján Svoreň, DrSc.		IN	V pondelok večer nastala jesenná rovnodennosť. Jej termín je však pohyblivý. Astronóm vysvetlil, čo ju ovplyvňuje	spravy.stvr.sk	23.9.2025
doc. RNDr. Ján Svoreň, DrSc.		IN	V sobotu uvidíme zatmenie Slnka	www.epochtimes.sk	25.3.2025
doc. RNDr. Ján Svoreň, DrSc.		PB	Vizualizácia observatória Astronomického ústavu SAV na Skalnatom Plese	Medzinárodný filmový festival Astrofilm, Piešťany	15.10.2025
doc. RNDr. Ján Svoreň, DrSc.		TL	Voyager 1 žije a komunikuje so Zemou	Kozmos 56, 2025/1, s. 8-9	2025
doc. RNDr. Ján Svoreň, DrSc.		IN	Výnimočný úkaz pod Tatrami vám vyrazí dych. Mladý fotograf ho zachytil náhodou	tvnoviny.sk	18.12.2025
doc. RNDr. Ján Svoreň, DrSc.		IN	Vzácná návšteva na Lomnickom štíte	facebook.com/AstronomickyustavSAV	25.4.2025
doc. RNDr. Ján Svoreň, DrSc.		IN	Vzácná návšteva na Lomnickom štíte	www.astro.sk	25.4.2025

doc. RNDr. Ján Svoreň, DrSc.		IN	Vznikol mesiac Marsu Fobos pri obrovskom impakte?	vedanadosah.cvtisr.sk	27.5.2025
doc. RNDr. Ján Svoreň, DrSc.		TL	Vznikol národný register vypúšťaných kozmických telies	Kozmos 56, 2025/1, s. 42	2025
doc. RNDr. Ján Svoreň, DrSc.		IN	Zatmenie Slnka viditeľné aj zo Slovenska	www.astro.sk	24.3.2025
doc. RNDr. Ján Svoreň, DrSc.		IN	Zaži vedu so Slovenskou akadémiou vied v Košiciach 15. a 16. mája 2025	www.astro.sk	9.5.2025
doc. RNDr. Ján Svoreň, DrSc.	Adamčák J.	IN	Konferencia VIII Workshop on Robotic Autonomous Observatories, Almeria, Španielsko, 6.-10. október 2025	www.astro.sk	22.10.2025
doc. RNDr. Ján Svoreň, DrSc.	Balaszová, H.	IN	K Zemi sa vraj blíži záhadný objekt s mimozemskou civilizáciou. Skúmali ho aj slovenskí vedci	www.emefka.sk	14.9.2025
doc. RNDr. Ján Svoreň, DrSc.	Baláž, J.	IN	Dnes v noci sledujte oblohu, čaká nás nebeské divadlo. Preženie sa nad nami meteorický roj Geminid	www.interez.sk	13.12.2025
doc. RNDr. Ján Svoreň, DrSc.	Bálint, A.	TV	Čiastočné zatmenie Slnka	RTVS 24, Správy RTVS z regiónov	28.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Benko, M.	IN	Fázy Venuše	facebook.com/AstronomickyustavSAV	31.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Benko, M.	IN	Venuša v tvare úzkeho kosáčika	www.astro.sk	31.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Bodorová, A.	IN	Toto nesmieš zmeškať. Slovákov o pár dní čaká dychberúce vesmírne divadlo	fontech.startitup.sk	10.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Bodorová, A.	IN	Zmeškal si magické vesmírne divadlo? Pozri si tieto úžasné fotografie zo sveta	fontech.startitup.sk	16.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Bodorová, A., Šebeň, D., Dušek, J.	IN	Niektoré uvidíš raz za život. Slovákov čakajú výnimočné vesmírne divadlá, tu je prehľad	fontech.startitup.sk	25.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Čaranová, B., Salayová, V.	IN	Dnes si aj z vášho okna budete môcť pozrieť polárnu žiaru, nesmiete však zaspať hneď po správach	www.bratislavak.sk	1.9.2025
doc. RNDr. Ján Svoreň, DrSc.	Demeter, J., Bobík, P.	TV	Čiastočné zatmenie Slnka	Televízna stanica Markíza; Televízne noviny	28.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Demeter, J., Bobík, P.	IN	Dych-berúce objavy: Prvé galaxie a planéty, na ktorých by mohol	tvnoviny.sk	26.12.2025

			vzniknúť život		
doc. RNDr. Ján Svoreň, DrSc.	Demeter, J., Bobík, P.	TV	Nebo plné meteorov	Televízna stanica Markíza; Televízne noviny	12.8.2025
doc. RNDr. Ján Svoreň, DrSc.	Demeter, J., Bobík, P.	TV	Planetárne zoradenie	Televízna stanica Markíza; Televízne noviny	28.2.2025
doc. RNDr. Ján Svoreň, DrSc.	Demeter, J., Bobík, P.	IN	V sobotu nás čaká veľké vesmírne divadlo. Kedy a kde bude možné pozorovať čiastočné zatmenie Slnka?	tvnoviny.sk	28.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Demeter, J., Bobík, P.	TV	Záhadné vesmírne signály	Televízna stanica Markíza; Televízne noviny	23.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Demeter, J., Bobík, P.	IN	Záhadné vesmírne signály, ktoré dokážu zatieniť celé galaxie. Kozmické ohňostroje vydali svoje tajomstvo	tvnoviny.sk	23.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Demeter, J., Bobík, P.,	TV	Rok v znamení teleskopu	Televízna stanica Markíza; Televízne noviny	26.12.2025
doc. RNDr. Ján Svoreň, DrSc.	Demeter, J., Bobík, P., Tóth, J.	TV	Lyridy na oblohe	Televízna stanica Markíza; Televízne noviny	19.4.2025
doc. RNDr. Ján Svoreň, DrSc.	Demeter, J., Čeliga, M., Bobík, P.	IN	Unikátna vesmírna prehliadka sa naskytne dnes večer. Na oblohe sa planéty zoradia v nezvyčajnom útvere	tvnoviny.sk	28.2.2025
doc. RNDr. Ján Svoreň, DrSc.	Demeter, J., Parimucha, Š., Bobík, P.	TV	Voyager prekonáva očakávania	Televízna stanica Markíza; Televízne noviny	6.1.2025
doc. RNDr. Ján Svoreň, DrSc.	Demeter, J., Tináková, M.	IN	Noc plná prianí. Na oblohe zažiarí meteorický roj Lyrid	tvnoviny.sk	19.4.2025
doc. RNDr. Ján Svoreň, DrSc.	Demeter, J., Tóth, J.	TV	Meteorit s názvom Košice	Televízna stanica Markíza; Televízne noviny	12.7.2025
doc. RNDr. Ján Svoreň, DrSc.	Demeter, J., Tóth, J.	IN	Unikátny meteorit dopadol z hlbokého vesmíru na Slovensko. Dodnes je výnimočný jedným faktom	tvnoviny.sk	12.7.2025
doc. RNDr. Ján Svoreň, DrSc.	Dobiašová, S.	IN	Čiastočné zatmenie Slnka a krvavý Mesiac. Aj na našej oblohe môžeš v noci sledovať zaujímavé vesmírne javy	brainee.hnonline.sk/no tsorry/news/veda/vesm ir	13.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Dominik, D.	IN	Krvavý mesiac na oblohe. Kedy presne bude na Slovensku?	lepsiden.sk	11.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Dujnič, M.	IN	Už čoskoro to vypukne: Nad našimi hlavami sa objaví výnimočný úkaz, v tomto čase nastane čiastočné zatmenie	www.interez.sk	29.3.2025

			Slnka		
doc. RNDr. Ján Svoreň, DrSc.	Durbák, J.	IN	Počas celého leta možno na oblohe pozorovať Venušu, informuje SAV	www.hlavnespravy.sk	7.6.2025
doc. RNDr. Ján Svoreň, DrSc.	Ďuriačová, S.	IN	Letné rána budú patriť Venuši. Jasná planéta ťa zobudí skôr ako Slnko	fontech.startitup.sk	9.6.2025
doc. RNDr. Ján Svoreň, DrSc.	Ďuriačová, S., Tináková, M.	IN	Noc plná padajúcich hviezd. Meteorický roj Lyrid vrcholí už 22. apríla	fontech.startitup.sk	17.4.2025
doc. RNDr. Ján Svoreň, DrSc.	Fecko, I.	IN	Nad Slovenskom spozorovali prelet výnimočne jasného bolidu	slovensky-vecernik.sk	14.7.2025
doc. RNDr. Ján Svoreň, DrSc.	Ferenc, M.	IN	Slnko – naša superhviezda	facebook.com/AstronomickyustavSAV	15.4.2025
doc. RNDr. Ján Svoreň, DrSc.	Firek, S.	IN	Čo sa to zjavilo pod Tatrami? Unikátny záber slovenského fotografa, ktorý vyzerá ako zo sci-fi filmu	www.azet.sk	19.12.2025
doc. RNDr. Ján Svoreň, DrSc.	Firek, S.	IN	Sebastiánovi sa naskytl pohľad ako zo sci-fi filmu: Aha, čo sa zjavilo na východe Slovenska!	koktejl.azet.sk	25.12.2025
doc. RNDr. Ján Svoreň, DrSc.	Gáliková, K.	IN	Astronomický ústav na akcii Zaži vedu so SAV v Košiciach	facebook.com/AstronomickyustavSAV	19.5.2025
doc. RNDr. Ján Svoreň, DrSc.	Garai, Z.	IN	Konferencia Detekcia a dynamika exoplanét, Coimbra, 7.-11. júla 2025	www.astro.sk	4.8.2025
doc. RNDr. Ján Svoreň, DrSc.	Gömöry, P., Ferenc, M.	IN	Slnko – naša superhviezda	www.astro.sk	17.4.2025
doc. RNDr. Ján Svoreň, DrSc.	Gospičová, A.	IN	Slováci pozorovali prelet žiarivého objektu. Časti meteoru mohli skončiť aj u nás	news.refreshers.sk	14.7.2025
doc. RNDr. Ján Svoreň, DrSc.	Gudiak, M.	IN	Záhadný úkaz na nočnej oblohe: Výnimočne jasný meteor fascinuje Slovákov!	www.topky.sk	16.7.2025
doc. RNDr. Ján Svoreň, DrSc.	Hergovitsová, Z.	IN	Meteorický roj Perzeydy sa oplatí pozorovať už počas týchto nocí	vedanadosah.cvtisr.sk	5.8.2025
doc. RNDr. Ján Svoreň, DrSc.	Hergovitsová, Z., Husárik, M.	IN	Polotieňové zatmenie Mesiaca nastane v piatok nad ránom	vedanadosah.cvtisr.sk	11.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Hodál, P., Hambálek, Ľ., Švanda, M., Chochol, D., Kroupa, P.	IN	Nie sme sami vo vesmíre. Slovenskí vedci píšú, kde hľadať mimozemské formy života	fontech.startitup.sk	16.11.2025

doc. RNDr. Ján Svoreň, DrSc.	Hodál, P., Horálek, P.	IN	Deje sa to len raz za život. Slávna hviezda je na pokraji výbuchu, uvidíme ju voľným okom (vyjadrenia vedcov)	fontech.startitup.sk	10.1.2025
doc. RNDr. Ján Svoreň, DrSc.	Horálek, P.	IN	Meteorický roj Lyridy zažiarí na nočnej oblohe	vedanadosah.cvtisr.sk	19.4.2025
doc. RNDr. Ján Svoreň, DrSc.	Horálek, P., Druckmüller, M., Koza, J.	IN	Zatmenie Slnka nastane už o niekoľko dní	vedanadosah.cvtisr.sk	24.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Chren, K.	IN	Nebeské divadlo, ktoré sa opakuje raz za 15 rokov. Záver februára bude patriť priaznivcom astronómie	tvnoviny.sk	10.2.2025
doc. RNDr. Ján Svoreň, DrSc.	Ivanova, O.	IN	Prehľadová publikácia o kentauroch aj s príspevím pracovníčky Astronomického ústavu SAV	www.astro.sk	12.9.2025
doc. RNDr. Ján Svoreň, DrSc.	Jurčík, M.	IN	Na nočnej oblohe uvidíte plno „padajúcich hviezd“. Kedy a ako ich pozorovať	zive.aktuality.sk	3.8.2025
doc. RNDr. Ján Svoreň, DrSc.	Jurčík, M.	IN	Nezabudnite dnes sledovať nočnú oblohu. Na oblohe sa odohrá kozmické divadlo	zive.aktuality.sk	12.8.2025
doc. RNDr. Ján Svoreň, DrSc.	Kaňuchová, Z.	IN	Hľadanie zdrojov sýry v kozmickom priestore	facebook.com/AstronomickyustavSAV	16.6.2025
doc. RNDr. Ján Svoreň, DrSc.	Kaňuchová, Z.	IN	Hľadanie zdrojov sýry v kozmickom priestore	www.astro.sk	16.6.2025
doc. RNDr. Ján Svoreň, DrSc.	Kapusta, M.	IN	Nezmeškaj dychberúce nebeské divadlo: Podmienky na jeho pozorovanie sú podľa odborníkov veľmi priaznivé	news.refreshers.sk	13.12.2025
doc. RNDr. Ján Svoreň, DrSc.	Kašiarová, M.	RO	Všetko, čo by ste mali vedieť o čiastočnom zatmení Slnka	Rádio Expres, Dopodrobna	27.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Kašiarová, M., Nádaská, K.	IN	Všetko, čo by ste mali vedieť o čiastočnom zatmení Slnka	podcasts.apple.com/sk/ podcast/dopodrobna	27.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Kmecová Mičková, A., Tináková, M.	IN	Polotieňové zatmenie Mesiaca: Ranný úkaz, ktorý si nesmiete nechať ujsť	www.nazahori.sk	12.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Knoteková, D.	IN	Najjasnejšia planéta leta: Venuša bude žiariť každé ráno pred úsvitom	sita.sk	4.6.2025
doc. RNDr. Ján Svoreň, DrSc.	Knoteková, D.	IN	Nebeské divadlo: Lyridy opäť rozžiaria aprílovú oblohu	sita.sk	17.4.2025

doc. RNDr. Ján Svoreň, DrSc.	Kováčová, M.	IN	Sympóziu Chaos a komplexné systémy, Istanbul, 8.-10. mája 2025	www.astro.sk	19.5.2025
doc. RNDr. Ján Svoreň, DrSc.	Kováčová, M., Kučera, A., Pribulla, T., Jendrejčák, D.	iné	Zaži vedu so SAV	Košice, vedecký stánok, verejnosť	16.5.2025
doc. RNDr. Ján Svoreň, DrSc.	Kubáni, J., Beránek, V., Smetanka, M., Lipták, R.	TV	Užívajte si ticho	TV JOJ, Noviny	17.4.2025
doc. RNDr. Ján Svoreň, DrSc.	Kuriľák, J.	TV	Jesenná rovnodennosť	RTVS 24, Správy 24	23.9.2025
doc. RNDr. Ján Svoreň, DrSc.	Kurpašová, P., Tináková, M.	IN	Nočná obloha chystá nezabudnuteľné divadlo. Nastavte si budík, čaká nás meteorický roj Lyríd	www.zilina.sk	19.4.2025
doc. RNDr. Ján Svoreň, DrSc.	Macko, O., Tináková, M.	IN	V sobotu uvidíme zatmenie Slnka aj zo Slovenska. Takto ho možno pozorovať	touchit.sk	24.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Malovcová, N.	IN	Už tento piatok nás čaká nebeské divadlo: Nastane zatmenie Mesiaca, sledovať ho budete môcť len v tomto presnom čase	www.interez.sk	11.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Malovcová, N., Tináková, M.	IN	Tieto dni budú výnimočné: Obloha sa rozžiari meteorickým rojom Lyríd, vidieť bude až 15 meteorov za hodinu	www.interez.sk	17.4.2025
doc. RNDr. Ján Svoreň, DrSc.	Mešťánek, I.	IN	Kométy, tajuplné poslovia z hviezd	www.nazor.info	25.2.2025
doc. RNDr. Ján Svoreň, DrSc.	Mináriková, M.	IN	Tento víkend nás čaká vzácné nebeské divadlo. Nezabudnite sledovať nočnú oblohu	www.imeteo.sk	29.1.2025
doc. RNDr. Ján Svoreň, DrSc.	Mináriková, M.	IN	Už o pár hodín nás čaká exkluzívna nebeská šou. Všímajte si, do akej farby sa zaodeje Mesiac	www.imeteo.sk	13.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Mináriková, R.	IN	Obloha už o pár hodín ponúkne šou, akú len tak neuvidíme. Nebeské divadlo odohrajú všetky planéty	www.dobrenoviny.sk	1.2.2025
doc. RNDr. Ján Svoreň, DrSc.	Mišíková, D.	IN	Čoskoro nastane vynikajúca astronomická udalosť. Opakuje sa iba raz za 15 rokov, priláka milovníkov nebeských fenoménov	www.istream.sk	9.2.2025
doc. RNDr. Ján	Mišíková, D.,	IN	Jasná kráľovná neba	www.istream.sk	10.6.2025

Svoreň, DrSc.	Tináková, M.		opäť rozžiari letnú oblohu. Ako sa Venuša premení na letnú „Zorničku“ a očarí vás svojimi tajomnými fázami?		
doc. RNDr. Ján Svoreň, DrSc.	Némethová, J.	TL	Čaká nás čiastočné zatmenie Slnka, predtým aj Mesiaca	My Na Pohroní	10.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Némethová, J.	TL	Na oblohe bude úkaz pozorovateľný len raz za niekoľko rokov	My Nitrianske noviny	3.2.2025
doc. RNDr. Ján Svoreň, DrSc.	Némethová, J.	IN	Na oblohe bude úkaz pozorovateľný len raz za niekoľko rokov	mylevice.sme.sk	3.2.2025
doc. RNDr. Ján Svoreň, DrSc.	Némethová, J.	IN	Na oblohe je dnes nevidaný úkaz. V najbližších hodinách bude pokračovať, stratí sa jedna z planét	mylevice.sme.sk	3.1.2025
doc. RNDr. Ján Svoreň, DrSc.	Némethová, J.	IN	V piatok nás čaká čiastočné zatmenie Mesiaca, stratí sa aj časť Slnka. Použiť treba špeciálne okuliare	mylevice.sme.sk	14.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Neslušan, L., Kováčová, M., Tomko, D.	IN	Hľadanie materského telesa meteorického roja Phoenicidy	www.astro.sk	18.7.2025
doc. RNDr. Ján Svoreň, DrSc.	Nežná, H., Demeter, J., Bobík, P., Masui, K.	IN	Vedci odhalili tajomstvo záhadných signálov z vesmíru. Milisekundové záblesky poznajú svoj zdroj	fontech.startitup.sk	25.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Nozdrovická, A.	IN	Čo nás čaká v roku 2025 na oblohe	www.epochtimes.sk	3.1.2025
doc. RNDr. Ján Svoreň, DrSc.	Nozdrovická, A.	IN	Čo nás čaká v roku 2025 na oblohe	www.sav.sk – Aktuality	3.1.2025
doc. RNDr. Ján Svoreň, DrSc.	Nozdrovická, A.	RO	Rýchla správa o úkazoch na nočnej oblohe	Trnavské rádio	5.1.2025
doc. RNDr. Ján Svoreň, DrSc.	Nozdrovická, A.	IN	V najbližších dňoch môžeme pozorovať zaujímavé zoskupenie planét	www.epochtimes.sk	28.2.2025
doc. RNDr. Ján Svoreň, DrSc.	Nozdrovická, A.	IN	V najbližších dňoch môžeme pozorovať zaujímavé zoskupenie planét	www.sav.sk – Aktuality	28.2.2025
doc. RNDr. Ján Svoreň, DrSc.	Olexová, M., Firek, S.	IN	Nepôsobí reálne: Slovák ukázal záber našej oblohy. Nič podobné ste ešte nikdy nevideli	www.interez.sk	18.12.2025
doc. RNDr. Ján Svoreň, DrSc.	Olexová, M., Tóth, J.	IN	Pozoruhodné divadlo budeme môcť pozorovať niekoľko ďalších večerov	www.interez.sk	1.3.2025
doc. RNDr. Ján	Paríľáková, M.,	IN	Rozprávkový nebeský úkaz: Zo Slovenska	www.startitup.sk	18.4.2025

Svoreň, DrSc.	Tináková, M.		uvidíš úchvatné meteory, „spadne“ ich až 15 za hodinu		
doc. RNDr. Ján Svoreň, DrSc.	Pavlíková, M.	TV	Slovensko: Astronómov „baví“ nečakaný hosť	TV JOJ, Noviny	9.9.2025
doc. RNDr. Ján Svoreň, DrSc.	Pavlíková, M., Horálek, P.	IN	Divadlo na oblohe, ktoré sa nevidí často: V nedeľu nás čaká úplné zatmenie Mesiaca	www.noviny.sk	6.9.2025
doc. RNDr. Ján Svoreň, DrSc.	Pavlíková, M., Horálek, P.	TV	Slovensko: Čaká nás krvavý Mesiac	TV JOJ, Noviny	6.9.2025
doc. RNDr. Ján Svoreň, DrSc.	Petko, P., Tináková, M.	IN	Kométa C/2025 A6 Lemmon je v týchto dňoch na hranici viditeľnosti voľným okom	www.epochtimes.sk	23.10.2025
doc. RNDr. Ján Svoreň, DrSc.	Petková, M.	IN	Na oblohe môžeme v týchto dňoch pozorovať Lyridy	www.epochtimes.sk	18.4.2025
doc. RNDr. Ján Svoreň, DrSc.	Pustayová, J.	IN	Už o pár hodín Mesiac čiastočne zakryje Slnko! Kedy to uvidíte najlepšie?	www1.pluska.sk	29.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Pustayová, J., Rapavý, P.,	TL	Odkiaľ uvidíte nebeský úkaz najlepšie?	Plus jeden deň	27.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Rapavý, P.	IN	Cez víkend sa na oblohe schová časť Slnka. Zatmenie bude viditeľné aj na Slovensku	hnonline.sk	27.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Rapavý, P.	TL	Časť Slnka sa schová, zatmenie bude viditeľné aj na Slovensku	Hospodárske noviny; TECH, s. 14.	28.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Rapavý, P.	IN	Zatmenie Slnka viditeľné aj zo Slovenska	facebook.com/AstronomickyustavSAV	24.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Rapavý, P.	IN	Zatmenie Slnka viditeľné aj zo Slovenska	www.astro.sk	24.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Rapavý, P., Nagy, R., Koči, E., Bella, I., Hambálek, Ľ., Kürti, Š.	PB	Načo nám je astronómia?	panelová diskusia, Medzinárodný filmový festival Astrofilm, Piešťany	14.10.2025
doc. RNDr. Ján Svoreň, DrSc.	Rapavý, P., Tináková, M.	IN	Nezmeškajte to: Veľkonočné sviatky obohatí aj meteorický roj Lyridy	zilina.sp21.sk	20.4.2025
doc. RNDr. Ján Svoreň, DrSc.	Ratkovská, I.	TV	Ľudia nad Slovenskom spozorovali prelet výnimočne jasného mimozemského telesa: Astronómovia zisťujú dráhu letu	RTVS, Ranné správy RTVS	14.7.2025
doc. RNDr. Ján	Ratkovská, I.	RO	Nadšenci vesmíru a pozorovaní majú	RTVS - Rádio Slovensko,	28.3.2025

Svoreň, DrSc.			príležitosť opäť zajtra	Rádiožurnál	
doc. RNDr. Ján Svoreň, DrSc.	Ratkovská, I., Koza, J.	TV	Novoročné vesmírne divadlo	RTVS, Správy RTVS	3.1.2025
doc. RNDr. Ján Svoreň, DrSc.	Ratkovská, I., Koza, J.	RO	Padajúce hviezdy - vesmírne divadlo	RTVS - Rádio Slovensko	3.1.2025
doc. RNDr. Ján Svoreň, DrSc.	Rušin, V.	IN	Vplyv slnečného vetra na systém magnetosféra-ionosféra-atmosféra a vytvorenie podmienok pre vznik tornád	www.astro.sk	3.11.2025
doc. RNDr. Ján Svoreň, DrSc.	Rušin, V.	IN	Vplyv slnečného vetra na vznik tornád	facebook.com/AstronomickyustavSAV	3.11.2025
doc. RNDr. Ján Svoreň, DrSc.	Rybák, J.	IN	Každý detail pomôže	facebook.com/AstronomickyustavSAV	29.9.2025
doc. RNDr. Ján Svoreň, DrSc.	Rybák, J.	IN	Každý detail pomôže	www.astro.sk	29.9.2025
doc. RNDr. Ján Svoreň, DrSc.	Rybák, J.	IN	Vidmo na Lomnickom štíte	facebook.com/AstronomickyustavSAV	12.12.2025
doc. RNDr. Ján Svoreň, DrSc.	Rybák, J.	IN	Vidmo na Lomnickom štíte	www.astro.sk	15.12.2025
doc. RNDr. Ján Svoreň, DrSc.	Shugarov, S.	IN	Určenie vzdialenosti supernovy typu Ia	facebook.com/AstronomickyustavSAV	24.11.2025
doc. RNDr. Ján Svoreň, DrSc.	Shugarov, S.	IN	Určenie vzdialenosti supernovy typu Ia	www.astro.sk	24.11.2025
doc. RNDr. Ján Svoreň, DrSc.	Skopal, A.	IN	Vyriešená záhada extrémnych svetelných zdrojov vo Veľkom a Malom Magellanovom mračne	facebook.com/AstronomickyustavSAV	11.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Skopal, A.	IN	Vyriešená záhada extrémnych svetelných zdrojov vo Veľkom a Malom Magellanovom mračne	www.astro.sk	13.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Slivenský, J.	TV	3I/Atlas je bežná kométa z medzihviezdneho priestoru	Televízia TA3, Hlavné správy	14.9.2025
doc. RNDr. Ján Svoreň, DrSc.	Slivenský, J.	TV	3I/Atlas je bežná kométa z medzihviezdneho priestoru	Televízia TA3, Ranné správy	15.9.2025
doc. RNDr. Ján Svoreň, DrSc.	Slivenský, J.	TV	Divadlo na oblohe? Nad hlavou budeme môcť vidieť až šesť planét, niektoré aj voľným okom	Televízia TA3, Hlavné správy	25.1.2025
doc. RNDr. Ján Svoreň, DrSc.	Slivenský, J.	IN	Divadlo na oblohe? Nad hlavou budeme môcť vidieť až šesť planét, niektoré aj voľným okom	www.ta3.com	25.1.2025
doc. RNDr. Ján Svoreň, DrSc.	Slivenský, J.	IN	SAV reaguje na hoaxy: K Zemi nesmeruje žiadny	www.ta3.com	14.9.2025

			mimozemský koráb. 3I/Atlas je bežná kométa z medzihviezdneho priestoru		
doc. RNDr. Ján Svoreň, DrSc.	Slivenský, J., Horálek, P.	RO	Fotku kométy z východu Slovenska zverejnila NASA	Rádio Košice	13.1.2025
doc. RNDr. Ján Svoreň, DrSc.	Slivenský, J., Horálek, P.	IN	Fotku kométy z východu Slovenska zverejnila NASA	www.kosiceonline.sk	13.1.2025
doc. RNDr. Ján Svoreň, DrSc.	Slivenský, J., Horálek, P.	TV	Rozlúčka s kométou	Televízia TA3, Hlavné správy	13.1.2025
doc. RNDr. Ján Svoreň, DrSc.	Slivenský, J., Recký, M.	TV	Perzeidy a ich nebeské divadlo	Televízia TA3, Hlavné správy	12.8.2025
doc. RNDr. Ján Svoreň, DrSc.	Slivenský, J., Recký, M., Sejut, F.	TV	Čaká nás čiastočné zatmenie Slnka	Televízia TA3, Hlavné správy	28.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Slovinský, T., Horálek, P.	IN	Vrcholí meteorický roj Kvadrantid a Mesiace zakryje Saturn	vedanadosah.cvtisr.sk	3.1.2025
doc. RNDr. Ján Svoreň, DrSc.	Sokologorská, S.	IN	Takto vyzeralo úplné zatmenie Mesiaca. Nenechajte si ujsť úžasné snímky	hnonline.sk	8.9.2025
doc. RNDr. Ján Svoreň, DrSc.	Sokologorská, S., Horálek, P.	TL	Oči na oblohu. Cez víkend nás čaká úplné zatmenie Mesiaca	Hospodárske noviny, s. 14	5.9.2025
doc. RNDr. Ján Svoreň, DrSc.	Sokologorská, S., Horálek, P.	IN	V nedeľu nastane jeden z najkrajších úkazov na oblohe, na ďalší si počkáme tri roky	hnonline.sk	6.9.2025
doc. RNDr. Ján Svoreň, DrSc.	Sokologorská, S., Kaňuchová, Z.	TL	Geminidy majú veľmi dobrý rok, vrcholia budúci týždeň	Hospodárske noviny, s. 14	5.12.2025
doc. RNDr. Ján Svoreň, DrSc.	Sokologorská, S., Kaňuchová, Z.	IN	Geminidy majú veľmi priaznivý rok, v noci nastane maximum ich aktivity	hnonline.sk	13.12.2025
doc. RNDr. Ján Svoreň, DrSc.	Suvák, S., Nádaská, K.	RO	Už zajtra nás čaká čiastočné zatmenie Slnka	Rádio Expres, Infoexpres	28.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Šodor, F., Ratkovská, I., Koza, J.	IN	Novoročné vesmírne divadlo: Víkend prinesie dva úkazy, jeden z nich je veľmi zriedkavý	spravy.rtvsk.sk	3.1.2025
doc. RNDr. Ján Svoreň, DrSc.	Špak, M.	IN	Večer obráťte oči na oblohu. Niekoľko dní bude možno sledovať zaujímavý úkaz	tvnoviny.sk	1.2.2025
doc. RNDr. Ján Svoreň, DrSc.	Štefánková, J.	TV	Čiastočné zatmenie Slnka	Správy RTVS	28.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Štefánková, J., Slovinský, T.	TV	Obdobie Perzeid	Správy RTVS	12.8.2025
doc. RNDr. Ján Svoreň, DrSc.	Štubňová, A.	IN	Vychutnajte si sobotné čiastočné zatmenie Slnka	slovensko.stvr.sk	28.3.2025

doc. RNDr. Ján Svoreň, DrSc.	Tináková, M.	IN	Čaká nás čiastočné zatmenie Slnka. Pozorovať ho budeme môcť už cez víkend	news.refreshers.sk	24.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Tináková, M.	IN	Divadlo na oblohe: Možno pozorovať meteory patriace do roja Lyríd	www.teraz.sk	17.4.2025
doc. RNDr. Ján Svoreň, DrSc.	Tináková, M.	IN	Keď je na oblohe večer, je Večernicou. Ráno je Zorníčkou	www.epochtimes.sk	4.6.2025
doc. RNDr. Ján Svoreň, DrSc.	Tináková, M.	IN	Keď je na oblohe večer, je Večernicou. Ráno je Zorníčkou	www.sav.sk – Aktuality	4.6.2025
doc. RNDr. Ján Svoreň, DrSc.	Tináková, M.	TL	Koncom týždňa nastane čiastočné zatmenie Slnka, viditeľné bude aj zo SR	TASR agentúrna správa	24.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Tináková, M.	IN	Koncom týždňa nastane čiastočné zatmenie Slnka, viditeľné bude aj zo SR	www.info.sk	24.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Tináková, M.	IN	Letnú oblohu rozžiari „Zornička. Viete, o ktorú planétu ide?	www.imeteo.sk	10.6.2025
doc. RNDr. Ján Svoreň, DrSc.	Tináková, M.	IN	Lyridy 2025: Nezmeškajte vesmírne divadlo nad Slovenskom	www.info.sk	19.4.2025
doc. RNDr. Ján Svoreň, DrSc.	Tináková, M.	IN	Mesiac čiastočne zatienil Slnko, úkaz bol viditeľný aj zo Slovenska	tech.sme.sk	29.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Tináková, M.	IN	Na oblohe bude možno pozorovať meteory patriace do meteorického roja Lyríd	www.topky.sk	17.4.2025
doc. RNDr. Ján Svoreň, DrSc.	Tináková, M.	IN	Na oblohe môžeme pozorovať Lyridy	www.sav.sk – Aktuality	17.4.2025
doc. RNDr. Ján Svoreň, DrSc.	Tináková, M.	IN	Počas celého leta budeme môcť na oblohe pozorovať jednu z planét: Vychádzať bude pred východom Slnka	spravy.stvr.sk	7.6.2025
doc. RNDr. Ján Svoreň, DrSc.	Tináková, M.	IN	Počas celého leta možno na oblohe pozorovať Venušu	regiony.zoznam.sk	7.6.2025
doc. RNDr. Ján Svoreň, DrSc.	Tináková, M.	IN	Počas celého leta možno na oblohe pozorovať Venušu	www.info.sk	7.6.2025
doc. RNDr. Ján Svoreň, DrSc.	Tináková, M.	IN	Počas celého leta možno na oblohe pozorovať Venušu	www.teraz.sk	7.6.2025
doc. RNDr. Ján Svoreň, DrSc.	Tináková, M.	IN	Počas leta možno na oblohe pozorovať Venušu: Astronómovia prezradili, kedy ju uvidíte najlepšie!	www.azet.sk	7.6.2025

doc. RNDr. Ján Svoreň, DrSc.	Tináková, M.	IN	Polotieňové zatmenie Mesiaca: Kedy a ako ho uvidíme zo Slovenska?	casopismetropola.sk	13.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Tináková, M.	IN	Pozorovanie prelietajúcej kométy voľným okom je nepravdepodobné	bleskovky.zoznam.sk	22.10.2025
doc. RNDr. Ján Svoreň, DrSc.	Tináková, M.	IN	Pre priaznivcov pozorovania nočnej oblohy: Čoskoro bude možné pozorovať zatmenie Mesiaca	zive.aktuality.sk	11.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Tináková, M.	IN	Pre priaznivcov pozorovania: Na oblohe možno pozorovať meteory patriace do meteorického roja Lyríd	zive.aktuality.sk	17.4.2025
doc. RNDr. Ján Svoreň, DrSc.	Tináková, M.	TL	SAV: Pozorovanie prelietajúcej kométy voľným okom je nepravdepodobné	TASR agentúrna správa	22.10.2025
doc. RNDr. Ján Svoreň, DrSc.	Tináková, M.	IN	SAV: Pozorovanie prelietajúcej kométy voľným okom je nepravdepodobné	www.teraz.sk	22.10.2025
doc. RNDr. Ján Svoreň, DrSc.	Tináková, M.	TL	SAV: V piatok bude možné pozorovať zatmenie Mesiaca	TASR agentúrna správa	11.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Tináková, M.	IN	Uprite pohľad hore: Na oblohe možno pozorovať meteory patriace do roja Lyríd	koktejl.azet.sk	17.4.2025
doc. RNDr. Ján Svoreň, DrSc.	Tináková, M.	TL	V piatok bude pozorovateľné zatmenie Mesiaca	SITA agentúrna správa	12.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Tináková, M.	IN	V piatok nastane zatmenie Mesiaca, zo Slovenska bude pozorovateľné ako polotieňové	euronovinky.eu	13.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Tináková, M.	IN	V piatok nastane zatmenie Mesiaca, zo Slovenska bude pozorovateľné ako polotieňové	spravy.pozri.sk	13.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Tináková, M.	IN	V sobotu uvidíme zatmenie Slnka	www.sav.sk – Aktuality	24.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Tináková, M.	IN	Zo Slovenska bude viditeľné čiastočné zatmenie Slnka. Potrvá približne hodinu, sledujte ho len cez špeciálne okuliare	www.ta3.com	29.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Tináková, M.	IN	Zoberte si ďalekohľad, slnečnou sústavou letí kométa C/2025 A6 Lemmon	bratislavskenoviny.sk	22.10.2025
doc. RNDr. Ján Svoreň, DrSc.	Toman, M.	IN	Aj tohto roku môžeme na augustovej nočnej	www.bystricoviny.sk	12.8.2025

Svoreň, DrSc.			oblohe pozorovať padajúce Perzeidy		
doc. RNDr. Ján Svoreň, DrSc.	Tomečková, N., Slovinský, T., Tináková, M.	IN	NASA publikovala fotografiu kométy nad Vysokými Tatrami ako prestížnu astronomickú snímku dňa	spravy.stvr.sk	22.10.2025
doc. RNDr. Ján Svoreň, DrSc.	Tomečková, N., Tináková, M.	PB	Čoskoro budeme môcť na nočnej oblohe sledovať meteorický roj Lyrid: Kedy bude najviditeľnejší	spravy.stvr.sk	17.4.2025
doc. RNDr. Ján Svoreň, DrSc.	Tóth, J., Zhang, Q.	IN	Na oblohe dnes vrcholí jeden z najkrajších meteorických rojov. Návod, ako najlepšie uvidíte Perzeidy	hnonline.sk	12.8.2025
doc. RNDr. Ján Svoreň, DrSc.	Tužáková, L.	TV	Na letnej oblohe sa odohrá nebeské divadlo. Aktivita známeho meteorického roja sa začína	Televízna stanica Markíza; Televízne noviny	17.7.2025
doc. RNDr. Ján Svoreň, DrSc.	Tužáková, L.	IN	Na letnej oblohe sa odohrá nebeské divadlo. Aktivita známeho meteorického roja sa začína	tvnoviny.sk	17.7.2025
doc. RNDr. Ján Svoreň, DrSc.	Vnenčák, M.	TV	Mesiac sa bude červenat'	Televízna stanica Markíza; Televízne noviny	7.9.2025
doc. RNDr. Ján Svoreň, DrSc.	Vnenčák, M.	TV	Polárna žiara nad Slovenskom	Televízna stanica Markíza; Televízne noviny	12.11.2025
doc. RNDr. Ján Svoreň, DrSc.	Vnenčák, M.	TV	Prvý jarný deň	Televízna stanica Markíza; Televízne noviny	20.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Vnenčák, M., Bobík, P.	TV	Najvzdialenejší poslovnia ľudstva	Televízna stanica Markíza; Televízne noviny	30.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Vnenčák, M., Ruttkay, R., Cintulová, E.	TV	Odštartovalo astronomické leto	Televízna stanica Markíza; Televízne noviny	21.6.2025
doc. RNDr. Ján Svoreň, DrSc.	Vnenčák, M., Takács, R., Havrila, K.	TV	Priekopníčka z Titanu má nasledovníčku	Televízna stanica Markíza; Televízne noviny	24.1.2025
doc. RNDr. Ján Svoreň, DrSc.	Vrabcová, A., Tináková, M.	IN	Čiastočné zatmenie Slnka – už koncom týždňa. Kde ho budeme môcť pozorovať a kedy?	www.netky.sk	26.3.2025
doc. RNDr. Ján Svoreň, DrSc.	Welterová, D., Balaszová, H., Beránek, P.	TV	Polárna žiara na Slovensku	Správy RTVS	12.11.2025
doc. RNDr. Ján Svoreň, DrSc.	Zimnikoval, P.	IN	Úplné zatmenie Mesiaca 7. septembra 2025	facebook.com/Astrono mickyustavSAV	5.9.2025
doc. RNDr. Ján Svoreň, DrSc.	Zimnikoval, P.	IN	Úplné zatmenie Mesiaca 7. septembra	www.astro.sk	5.9.2025

			2025		
Mgr. Dušan Tomko, PhD.		PB	Kométy - nemá svedkovia dávnych dôb	Spojená škola, Letná 3453/34, 058 01 Poprad	12.11.2025
Mgr. Dušan Tomko, PhD.		PB	Kométy - nemá svedkovia dávnych dôb	ZŠ s MŠ, Jarná ulica 3168/13, 058 01 Poprad, a ZŠ s MŠ, Ždiar 255, 059 55	13.11.2025
Mgr. Dušan Tomko, PhD.		PB	Kométy - nemá svedkovia dávnych dôb	ZŠ s MŠ, Nižná brána 8, 060 01 Kežmarok	14.11.2025
Mgr. Dušan Tomko, PhD.		IN	Nie je meteorit ako meteoroid	96. epizóda vedeckého podcastu SAV, Skalnaté Pleso	21.11.2025
Mgr. Dušan Tomko, PhD.		PB	Noc pod hviezdou oblohou – Skalnaté Pleso	Večera pod hviezdami TMR, Skalnaté Pleso	5.7.2025
Mgr. Dušan Tomko, PhD.		PB	Noc pod hviezdou oblohou – Skalnaté Pleso	Večera pod hviezdami TMR, Skalnaté Pleso	23.8.2025
Mgr. Dušan Tomko, PhD.		PB	Noc pod hviezdou oblohou – Skalnaté Pleso	Večera pod hviezdami TMR, Skalnaté Pleso	13.9.2025
Mgr. Dušan Tomko, PhD.	Orikhovskiy, D.	EX	Výskum na Astronomickom ústave SAV, v. v. i.	Kúpele Horný Smokovec	12.6.2025
Ing. Michal Trembáč		PB	O práci Observatória Lomnický štít AsÚ SAV	exkurzia pre generálneho riaditeľa sekcie výskumu a vývoja MŠVVaM SR a jeho sprievod	31.5.2025
Ing. Michal Trembáč		PB	O práci Observatória Lomnický štít AsÚ SAV	exkurzia pre účastníkov konferencie APCOM 2025 - Workshop Solid State Physics and Radioactive Irradiation	26.6.2025
Ing. Michal Trembáč		PB	O práci Observatória Lomnický štít AsÚ SAV	Observatórium Lomnický štít AsÚ SAV, exkurzia pre hostí SHMÚ	27.5.2025
Ing. Michal Trembáč		PB	O práci Observatória Lomnický štít AsÚ SAV	Observatórium Lomnický štít AsÚ SAV, exkurzia pre pracovníkov firmy MicroStep – hostí SHMÚ	29.8.2025
Ing. Michal Trembáč		PB	O práci Observatória Lomnický štít AsÚ SAV	Observatórium Lomnický štít AsÚ SAV, exkurzia pre pracovníkov hostí UEF SAV vedených Dr. Kopčanským	27.8.2025
Ing. Michal Trembáč		PB	O práci Observatória Lomnický štít AsÚ SAV	Observatórium Lomnický štít AsÚ SAV, exkurzia pre pracovníkov Technickej univerzity v Košiciach	26.9.2025
Ing. Michal Trembáč		PB	O práci Observatória Lomnický štít AsÚ SAV	Observatórium Lomnický štít AsÚ SAV, exkurzia pre	2.6.2025

				riaditeľku ÚEF SAV a host'a ÚEF SAV	
Ing. Michal Trembáč		PB	O práci Observatória Lomnický štít AsÚ SAV	Observatórium Lomnický štít AsÚ SAV, exkurzia pre účastníkov Tatra Astro Summit 2025	25.9.2025
Mgr. Martin Vaňko, PhD.		PB	Astronómia vo Vysokých Tatrách	oslavy 30. výročia časopisu Quark, Botanická záhrada UPJŠ, Košice	3.11.2025
Mgr. Martin Vaňko, PhD.		EX	O práci Observatória Skalnaté pleso AsÚ SAV	MŠ a ZŠ, Tajovského 2764/17, 058 01 Poprad	9.5.2025
Mgr. Martin Vaňko, PhD.		PB	Základné otázky z astronómie	Seminár pre učiteľov fyziky, Hvezdáreň a planetárium v Prešove, Prešov	12.12.2025
Zurab Vashalomidze, PhD.		PB	O práci Observatória Lomnický štít AsÚ SAV	Observatórium Lomnický štít AsÚ SAV, exkurzia pre spišského biskupa F. Trstenského so sprievodom	1.7.2025
Mgr. Anhelina Voitko, PhD.		PB	Malí ľadoví pilgrimovia alebo špinavé snehové gulôčky	verejnosť	26.9.2025
Mgr. Anhelina Voitko, PhD.		PB	Small icy pilgrims or dirty snowballs	Astronomický klub Bratislava	6.8.2025
Mgr. Anhelina Voitko, PhD.	Kundra, E.	EX	Výskum na Astronomickom ústave SAV, v. v. i.	Stredná priemyselná škola techniky a dizajnu, Mnoheľova 828, 058 46 Poprad	12.5.2025
Mgr. Anhelina Voitko, PhD.	Kundra, E.	EX	Výskum na Astronomickom ústave SAV, v. v. i.	Úrad vládneho auditu SR	10.6.2025
Mgr. Anhelina Voitko, PhD.	Kundra, E.	EX	Výskum na Astronomickom ústave SAV, v. v. i.	ZŠ, L. Kossutha 580/56, 077 01 Kráľovský Chlmec	15.5.2025
Mgr. Anhelina Voitko, PhD.	Shagatova, N.	EX	Výskum na Astronomickom ústave SAV, v. v. i.	verejnosť	14.4.2025

¹ PB - prednáška/beseda, TL - tlač, TV - televízia, RO - rozhlas, IN - internet, EX - exkurzia, PU - publikácia, MM - multimédia, DO - dokumentárny film

Príloha A-7

Vyznamenania, ceny a iné ocenenia udelené organizácii a jej pracovníkom v roku 2025

Domáce ocenenia

Ocenenia SAV

Kučera Aleš

Významná osobnosť SAV 2025

Oceňovateľ: Predsedníctvo SAV

Iné domáce ocenenia

Medzinárodné ocenenia

ČASŤ B

Astronomický ústav SAV, v. v. i.

**Výročná správa o hospodárení organizácie
za rok 2025**

ČASŤ B

Výročná správa o hospodárení organizácie za rok 2025

Obsah

19. Základné informácie o hospodárení organizácie
20. Prehľad príjmov a výdavkov
21. Pohyb a konečný stav majetku
22. Opatrenia na odstránenie nedostatkov v hospodárení a správa o plnení opatrení prijatých na odstránenie nedostatkov z predchádzajúceho roku
23. Ďalšie údaje o hospodárení organizácie

PRÍLOHY K ČASTI B

B-1 Ročná účtovná závierka

B-2 Správa štatutárneho audítora k ročnej účtovnej závierke

19. Základné informácie o hospodárení organizácie

(v zmysle §20, ods. 1 zákona č. 431/2002 Z. z. o účtovníctve)

19.1 Prehľad základných finančných ukazovateľov

	k 31. 12. 2025	k 31. 12. 2024
Finančné výsledky (v euro)		
Aktíva	5 260 500,16	5 409 682,13
Neobežný majetok	5 056 137,95	5 138 664,64
Dlhodobý nehmotný majetok	0	0
Dlhodobý hmotný majetok	5 056 137,95	5 138 664,64
Dlhodobý finančný majetok	0	0
Obežný majetok	199 112,10	267 633,08
Zásoby	6 749,47	6 678,27
Dlhodobé pohľadávky	0	0
Krátkodobé pohľadávky	105,56	5 321,87
Finančné účty	192 257,07	255 632,94
Časové rozlíšenie	5250,11	3 384,41
Pasíva		
Vlastné imanie	2 942 140,77	2 942 248,87
Základné imanie	2 928 891,76	2 928 891,76
Nevysporiadaný HV minulých rokov	10 000,00	9 993,84
Výsledok hospodárenia za účtovné obdobie	-108,10	3 363,27
Závazky	11 842,46	13 158,60
Zúčtovanie medzi subjektami VS (2022)		
Dlhodobé záväzky	2 340,04	2 177,70
Krátkodobé záväzky	9 502,42	10 980,90
Bankové úvery a iná výpomoci a pôžičky	0	0
Časové rozlíšenie	2 306 515,93	2 454 274,66
Výkaz ziskov a strát		
Výsledok hospodárenia z hlavnej činnosti pred	472,00	4 218,45
Tržby z predaja tovarov a služieb	13 668,98	15 837,27
Iné ostatné výnosy	14 374,90	15 459,00
Dotácie	2 287 617,12	2 284 434,88
Transfery (2021)		
Prijaté príspevky od právnických osôb	1 737,14	0
Celkové náklady účtovná trieda 5.	2 322 762,79	2 311 512,70
Výsledok hospodárenia pred zdanením	472,00	4 218,45
Výsledok hospodárenia pred zdanením		
Výsledok hospodárenia po zdanení	-108,10	3 363,27
Pomerové ukazovatele		
Rentabilita aktív (ROA)	-0,002%	0,06%
Rentabilita vlastného imania (ROE)	-0,00367%	0,001143%

19.2 Ďalšie informácie o stave a vývoji organizácie z hľadiska hospodárenia

a) Udalosti osobitného významu po 31. 12. 2025 z hľadiska hospodárenia organizácie

Po uzavretí účtovného obdobia kalendárneho roka 2025 nenastali udalosti zásadného významu z hľadiska hospodárenia organizácie.

b) Predpokladaný budúci vývoj organizácie v roku 2026

Organizácia bude pokračovať v svojich aktivitách v súlade so zakladacou listinou a hlavným predmetom činnosti.

c) Náklady na činnosť v oblasti výskumu a vývoja

V súlade so zameraním inštitúcie sú všetky náklady v. v. i. vykazované v časti výkazu ziskov a strát účtovnej závierky nákladmi na činnosť v oblasti výskumu a vývoja.

d) Návrh na rozdelenie zisku alebo vyrovnanie straty

O rozdelení zisku alebo vyrovňovaní strát rozhoduje Správna rada Astronomického ústavu SAV, v. v. i. v spolupráci s Dozornou radou Astronomického ústavu SAV, v. v. i. v súlade so zákonom č. 243/2017 Z. z. o verejnej výskumnej inštitúcii.

e) Ostatné informácie súvisiace s hospodárením v. v. i.

—

f) Informácia o konsolidácii účtovníctva organizácie

Rozpočet organizácie je súčasťou konsolidovaného celku rozpočtovej kapitoly SAV.

20. Prehľad príjmov a výdavkov

(v zmysle § 27, ods. 4, písm. g zákona č. 243/2017 Z. z. o verejnej výskumnej inštitúcii)

Príjmy a výdavky z hlavnej činnosti

	FP k 01.01.2025	Schválený rozpočet	Upravený rozpočet	Skutočnosť	Zostatok FP k 31.12.2025
1	2	3	4	5	6
Príjmy spolu	252 835,24	1 732 080,00	2 191 836,30	2 133 595,67	
Z toho: 3P01	146 963,46	0,00	82 434,30	82 434,30	x
ŠR ZDROJ 131	5353,35	0,00	0,00	5353,35	x
ŠR ZDROJ 111 (IFP)	0,00	1 696 207,00	1 990 698,27	1 941 073,98	x
ŠR ZDROJ 111, (APVV)	1 699,34	20 373,00	96 903,73	98 603,07	x
Spolu zo ŠR	154 016,15	1 716 580,00	2 170 036,30	2 122 111,35	x
Zahr. ZDROJ 35, 11GR, 13GR	57 919,65	0,00	0,00	0,00	x
Vlastné zdroje ZDROJ 46	40 899,44	15 500,00	21 800,00	11 484,32	x
Výdavky spolu		1 732 080,00	2 191 836,30	2 239 201,88	189 800,63
Z toho: 3P01	x	0,00	82 434,30	166 231,40	63 166,36
ŠR ZDROJ 131	x	0,00	0,00	5 353,35	0,00
ŠR ZDROJ 111 (IFP)	x	1 696 207,00	1 990 698,27	1 941 073,98	49 624,29
ŠR ZDROJ 111 (APVV)	x	20 373,00	96 903,73	98 603,07	0,00
Spolu zo ŠR	x	1 716 580,00	2 170 036,30	2 205 908,45	112 790,65
Zahr. ZDROJ 35, 11GR,13GR	x	0,00	0,00	11 493,43	46 426,22
Vlastné zdroje ZDROJ 46	x	15 500,00	21 800,00	21 800,00	30 583,76

Príjmy a výdavky (v zmysle zákona č. 243/2017 Z. z.)	Príjmy	Výdavky
z hlavnej činnosti okrem druhého a tretieho bodu	2 244 555,23	2 244 555,23
činnosti podľa § 2 ods. 1 písm. a) zákona	0	0
činnosti podľa § 2 ods. 1 písm. b) zákona	0	0
činnosti podľa § 2 ods. 1 písm. c) zákona	0	0
činnosti podľa § 2 ods. 1 písm. d) zákona	0	0
činnosti podľa § 2 ods. 1 písm. e) zákona	0	0

21. Pohyb a konečný stav majetku

(v zmysle § 27, ods. 4, písm. h zákona č. 243/2017 Z. z. o verejnej výskumnej inštitúcii)

Majetok

(celkové aktíva brutto)

	2025	2024
Celkové aktíva [€]	11 780 787,18	11 802 498,02
Nárast aktív [%]	-	-
Pokles aktív [%]	-0,18%	-

Štruktúra majetku

(aktíva brutto)

	2025		2024	
	v euro	(%) podiel	v euro	(%) podiel
Dlhodobý nehmotný majetok	29 493,03	0,25%	29 493,03	0,25%
Dlhodobý hmotný majetok	11 546 931,94	98,01%	11 501 987,50	97,45%
Dlhodobý finančný majetok	0	0,00%	0	0,00%
Dlhodobé pohľadávky	0	0,00%	0	0,00%
Krátkodobé pohľadávky	105,56	0,00%	5 321,87	0,05%
Zásoby	6 749,47	0,06%	6 678,27	0,06%
Finančné účty	192 257,07	1,63%	255 632,94	2,17%
Časové rozlíšenie	5 250,11	0,04%	3 384,41	0,03%
Aktíva (Majetok brutto)	11 780 787,18	100%	11 802 498,02	100%

Majetok

(celkové aktíva netto)

	2025	2024
Celkové aktíva [€]	5 260 500,16	5 409 682,13
Nárast aktív [%]	-	-
Pokles aktív [%]	-2,76%	-

Štruktúra majetku

(aktíva netto)

	2025		2024	
	v euro	(%) podiel	v euro	(%) podiel
Dlhod. nehmotný majetok	-	-	-	-
Dlhodobý hmotný majetok	5 056 137,95	96,12%	5 138 664,64	94,99%
Dlhodobý finančný majetok	-	-	-	-
Dlhodobé pohľadávky	-	-	-	-
Krátkodobé pohľadávky	105,56	0,00%	5 321,87	0,10%
Zásoby	6 749,47	0,13%	6 678,27	0,12%
Finančné účty	192 257,07	3,65%	255 632,94	4,73%
Časové rozlíšenie	5 250,11	0,10%	3 384,41	0,06%
Aktíva	5 260 500,16	100,00%	5 409 682,13	100,00%

Významné sumy prírastkov a úbytkov dlhodobého nehmotného majetku a dlhodobého hmotného majetku.

V roku 2025 boli do veľkého majetku pre vedecké účely zakúpené dve CMOS kamery s príslušenstvom. Tieto profesionálne CMOS kamery sú nevyhnutné pre vysokokvalitné fotometrické pozorovania objektov nočnej oblohy. Okrem toho bola zakúpená nová optická súčiastka (achromatická doštička) nevyhnutná pre nové zariadenie určené na polarimetrickú kalibráciu prístroja CoMP-S:

1. CMOS C3-61000 v sume 11 452,53 € s DPH,
 2. CMOS C4-16000 v sume 25 401,96 € s DPH,
 3. achromatická doštička v sume 3 460,60 € s DPH.
- Na účte obstaranie dlhodobého hmotného majetku – technické zhodnotenie je suma 62 279,35 €. Z toho v tejto sume:
- 30 920,60 € sú náklady na projektovú dokumentáciu „Zameranie – zníženie energetickej náročnosti – Observatória Skalnaté Pleso“ z r. 2024 v sume 30 250,00 € a v r. 2025 AsÚ z vlastných zdrojov 46 uhradil poplatky vo výške 670,60 €,
 - 22 858,75 € je za zhotovenie projektovej dokumentácie „Zníženie energetickej náročnosti budovy Vila Tatra – komplexná rekonštrukcia stavby“ finančné prostriedky z r. 2024 boli vo výške 22 400,00€ a v r. 2025 sa uhradili poplatky v sume 458,75 € z vlastných zdrojov,
 - 5 000,00 € je za projektovú dokumentáciu Observatória Lomnický Štít r. 2024 z Výkonnostných zmlúv,
 - 3 500,00 € je projektová dokumentácia na prestrešenie vonkajšieho schodiska budova AsÚ uhradená z vlastných zdrojov 46.

22. Opatrenia na odstránenie nedostatkov v hospodárení a správa o plnení opatrení prijatých na odstránenie nedostatkov z predchádzajúceho roku
(v zmysle § 27, ods. 4, písm. i zákona č. 243/2017 Z. z. o verejnej výskumnej inštitúcii)

V roku 2025 bola vykonaná aktualizácia interných predpisov v súlade s platnou legislatívou s cieľom predísť prípadným nedostatkom v hospodárení a zabezpečiť efektívne riadenie a dodržiavanie právnych noriem. Aktualizované interné predpisy sú zverejnené na intranetovej stránke ústavu.

23. Ďalšie údaje o hospodárení organizácie

(v zmysle § 27, ods. 4, písm. j zákona č. 243/2017 Z. z. o verejnej výskumnej inštitúcii)

23.1. Výdavky organizácie – štruktúra zdrojov

Tabuľka 23a Výdavky organizácie podľa štruktúry zdrojov (skutočnosť k 31. 12. 2025 v €)

Typ organizácie (v. v. i.)		Zdroje, z ktorých sa kryli jednotlivé výdavky			
Výdavky	Spolu	kapitola SAV (111)	iné štátne a verejné zdroje	ostatné zdroje	% krytia z kapitoly SAV
1. Bežné výdavky	2 222 816,20	1 932 473,25	264 834,47	25 508,48	87%
Z toho:					
mzdy (610)	1 247 759,50	1 162 592,00	76 534,57	8 632,93	93 %
vedecká výchova štipendiá (640)	61 635,51	61 635,51	0	0	100 %
poistné a príspevok do poisťovní (620)	438 940,43	408 105,98	27 973,95	2 860,50	93 %
tovary a služby (630)	438 905,61	288 427,34	136 463,22	14 015,05	66 %
transfery partnerom projektov (640)	23 862,73	0	23 862,73	0	0%
2. Kapitálové výdavky	7 784,95	0	0	7 784,95	0 %
Z toho:					
obstarávanie kapitálových aktív	7 784,95	0	0	7 784,95	0 %
kapitálové transfery	0	0	0	0	0 %

23.2. Zdroje financovania organizácie

Tabuľka 23b Zdroje financovania organizácie (skutočnosť k 31. 12. 2025 v €)

Typ organizácie (v. v. i.)		Z toho kategórie			
Zdroje	Spolu	Kapitálové zdroje	zdroje na mzdy (610)	zdroje na odvody do poisťovní (620)	zdroje na transfery partnerom projektov
1. kapitola SAV (111)	1 944 430,25		1 162 592,00	408 105,98	
Z toho:					
VEGA	94 033,00				
MVTS výskumné projekty					
MVTS podpora	5 524,00				
SASPRO/MOREPRO/IMPULZ					

Vydávanie časopisov	5 093,00				
Vedecká výchova (štipendiá)	61 635,51				
Postdokgrant	5 755,55				
Mobility	10 000,00				
OTAS (630)	224 482,21				
2. ŠF EÚ vr. Fin. zo ŠR					
3. medzinárodné grantové projekty	11 493,43		8 632,93	2 860,50	
Z toho:					
H2020	11 493,43		8 632,93	2 860,50	
4. iné štátne a verejné zdroje (spolu)	263 850,42		76 534,57	27 973,95	24 565,00
Z toho					
APVV	97 606,00		12 000,00	4 613,31	24 565,00
podpora z kapitoly MŠVVaŠ SR (stimuly)					
5. ostatné zdroje	18 085,12	7 784,95			
Z toho:					
príjmy z prenájmu	5 800,17				
príjmy z podnikateľskej činnosti					
príjmy z expertnej činnosti a služieb	4 500,00				

23.3 Ostatné údaje o hospodárení organizácie

V roku 2025 bolo financovanie Astronomického ústavu SAV, v. v. i. kryté najmä finančnými prostriedkami získanými na základe Zmluvy o poskytnutí prostriedkov inštitucionálnej formy podpory výskumu a vývoja a jej dodatkov a tiež z Výkonnostnej zmluvy o poskytnutí finančných prostriedkov na podporu výskumu a vývoja s dodatkami.

Výročnú správu o hospodárení organizácie zostavil(i):

Mgr. Peter Gömöry, PhD., 052/7879182

Mgr. Marián Jakubík, PhD., 052/7879199

Mgr. Bibiána Pažická, 052/7879123

Stanoviská orgánov v. v. i. k výročnej správe o činnosti a hospodárení organizácie

Stanovisko správnej rady

Správna rada prerokovala výročnú správu dňa 30.06.2026

Správna rada Astronomického ústavu SAV, v. v. i. konštatuje, že predložená výročná správa poskytuje potrebný prehľad a požadované údaje o činnosti a hospodárení Astronomického ústavu SAV, v. v. i. v roku 2025.

Predseda správnej rady: Mgr. Peter Gömöry, PhD.

Stanovisko vedeckej rady

Vedecká rada prerokovala výročnú správu dňa 13.07.2026

Vedecká rada Astronomického ústavu SAV, v. v. i. konštatuje, že predložená výročná správa poskytuje potrebný prehľad a požadované údaje o činnosti a hospodárení Astronomického ústavu SAV, v. v. i. v roku 2025.

Predseda vedeckej rady: Mgr. Zuzana Kaňuchová, PhD.

Stanovisko dozornej rady

Dozorná rada prerokovala výročnú správu dňa 27.07.2026

Dozorná rada Astronomického ústavu SAV, v. v. i., nemá pripomienky k prerokovanej, v zmysle § 27, ods. 1 zákona č. 243/2017 Z. z., Výročnej správe Astronomického ústavu SAV, v. v. i., za rok 2025.

Predseda dozornej rady: doc. RNDr. Pavol Hvizdoš, DrSc.

Tatranská Lomnica, 29.07.2026

Mgr. Peter Gömöry, PhD. - riaditeľ

Peter

Gömöry

Digitálne podpísal Peter
Gömöry

Dátum: 2026.07.29
15:44:10 +02'00'

elektronický podpis riaditeľa

PRÍLOHY K ČASTI B

Príloha B-1 Ročná účtovná závierka

ÚČTOVNÁ ZÁVIERKA

neziskovej účtovnej jednotky účtujúcej
v sústave podvojného účtovníctva

zostavená k 3 1 . 1 2 . 2 0 2 5

Daňové identifikačné číslo 2 0 2 1 2 1 2 5 1 2 IČO 0 0 1 6 6 5 2 9 SK NACE .	Účtovná závierka x riadna mimoriadna priebežná (vyznačí sa x)	Mesiac Rok od 0 1 2 0 2 5 do 1 2 2 0 2 5 Bezprostredne predchádzajúce obdobie od 0 1 2 0 2 4 do 1 2 2 0 2 4

Priložené súčasti účtovnej závierky

☒ Súvaha (Úč NUJ 1-01)
(v eurocentoch)☒ Výkaz ziskov a strát (Úč NUJ 2-01)
(v eurocentoch)☒ Poznámky (Úč NUJ 3-01)
(v celých eurách alebo eurocentoch)

Názov účtovnej jednotky

A s t r o n o m i c k ý ú s t a v S A V , v . v . i .

Sídlo účtovnej jednotky

Ulica

Číslo

PSČ

Obec

0 5 9 6 0 T a t r a n s k á L o m n i c a

Telefónne číslo

7 8 7 9 1 1 1

E-mailová adresa

a s t r i n s t @ t a 3 . s k

Zostavená dňa:

3 0 . 0 3 . 2 0 2 6

Schválená dňa:

. . 2 0

Podpisový záznam

štatutárneho orgánu alebo
člena štatutárneho orgánu
účtovnej jednotky:

Strana aktív		č.r.	Bežné účtovné obdobie			Bezprostredne predchádzajúce účtovné obdobie
			Brutto	Korekcia	Netto	Netto
a		b	1	2	3	4
A. NEOBEŽNÝ MAJETOK SPOLU r. 002 + r. 009 + r. 021		001	11576424.97	6520287.02	5056137.95	5138664.64
A.I.	Dlhodobý nehmotný majetok r. 003 až r. 008	002	29493.03	29493.03		
A.I.1.	Nehmotné výsledky z vývojovej a obdobnej činnosti 012 - (072+091AÚ)	003				
2.	Softvér 013 - (073+091AÚ)	004	29493.03	29493.03		
3.	Ocenené práva 014 - (074 + 091AÚ)	005				
4.	Ostatný dlhodobý nehmotný majetok (018+ 019)-(078 + 079 + 091 AÚ)	006				
5.	Obstaranie dlhodobého nehmotného majetku (041-093)	007				
6.	Poskytnuté preddavky na dlhodobý nehmotný majetok (051-095AÚ)	008				
A.II.	Dlhodobý hmotný majetok r. 010 až r. 020	009	11546931.94	6490793.99	5056137.95	5138664.64
A.II.1.	Pozemky (031)	010	2928891.76		2928891.76	2928891.76
2.	Umelecké diela a zbierky (032)	011				
3.	Stavby 021 - (081 - 092AÚ)	012	1448379.53	849517.21	598862.32	627837.76
4.	Samostatné hnuťelné veci a súbory hnuťelných vecí 022 - (082 + 092AÚ)	013	6453278.78	5545755.5	907523.28	941867.68
5.	Dopravné prostriedky 023 - (083 + 092AÚ)	014	82293.51	58437.01	23856.5	36304.58
6.	Pestovateľské celky trvalých porastov 025 - (085 + 092AÚ)	015				
7.	Základné stádo a ťažné zvieratá 026 - (086 + 092AÚ)	016				
8.	Drobný dlhodobý hmotný majetok 028 - (088 + 092AÚ)	017				
9.	Ostatný dlhodobý hmotný majetok 029 - (089 +092AÚ)	018	571809.01	37084.27	534724.74	546112.86
10.	Obstaranie dlhodobého hmotného majetku (042 - 094)	019	62279.35		62279.35	57650
11.	Poskytnuté preddavky na dlhodobý hmotný majetok (052 - 095AÚ)	020				
A.III.	Dlhodobý finančný majetok r. 022 až r. 028	021				
A.III.1.	Podielové cenné papiere a podiely v obchodných spoločnostiach v ovládanej osobe (061- 096 AÚ)	022				
2.	Podielové cenné papiere a podiely v obchodných spoločnostiach s podstatným vplyvom (062 - 096 AÚ)	023				
3.	Dlhové cenné papiere držané do splatnosti (065 - 096 AÚ)	024				
4.	Pôžičky podnikom v skupine a ostatné pôžičky (066 + 067) - 096 AÚ	025				
5.	Ostatný dlhodobý finančný majetok (069 - 096 AÚ)	026				
6.	Obstaranie dlhodobého finančného majetku (043 - 096 AÚ)	027				
7.	Poskytnuté preddavky na dlhodobý finančný majetok (053 - 096 AÚ)	028				

Strana aktív		č.r.	Bežné účtovné obdobie			Bezprostredne predchádzajúce účtovné obdobie
			Brutto	Korekcia	Netto	Netto
a		b	1	2	3	4
B. OBEŽNÝ MAJETOK SPOLU r. 030+ r. 037+ r. 042 + r. 051		029	199112.1		199112.1	267633.08
B.I.	Zásoby r. 031 až r. 036	030	6749.47		6749.47	6678.27
B.I.1.	Materiál (112 + 119) - 191	031	6749.47		6749.47	6678.27
2.	Nedokončená výroba a polotovary vlastnej výroby (121+122) - (192 +193)	032				
3.	Výrobky (123 - 194)	033				
4.	Zvieratá (124 - 195)	034				
5.	Tovar (132 + 139) - 196	035				
6.	Poskytnuté prevádzkové preddavky na zásoby (314 AÚ - 391 AÚ)	036				
B.II.	Dlhodobé pohľadávky r. 038 až r. 041	037				
B.II.1.	Pohľadávky z obchodného styku (311 AÚ až 314 AÚ) - 391 AÚ	038				
2.	Ostatné pohľadávky (315 AÚ - 391AÚ)	039				
3.	Pohľadávky voči účastníkom združení (358AÚ - 391AÚ)	040				
4.	Iné pohľadávky (335 AÚ + 373 AÚ + 375 AÚ + 378AÚ) - 391AÚ	041				
B.III.	Krátkodobé pohľadávky r. 043 až r. 050	042	105.56		105.56	5321.87
B.III.1.	Pohľadávky z obchodného styku (311AÚ až 314 AÚ) - 391AÚ	043				5321.87
2.	Ostatné pohľadávky (315 AÚ - 391 AÚ)	044				
3.	Zúčtovanie so Sociálnou poisťovňou a zdravotnými poisťovňami (336)	045				
4.	Daňové pohľadávky (341 až 345)	046				
5.	Pohľadávky z dôvodu finančných vzťahov k štátnemu rozpočtu a rozpočtom územnej samosprávy (346+ 348)	047				
6.	Pohľadávky voči účastníkom združení (358 AÚ - 391AÚ)	048				
7.	Spojovací účet pri združení (396 - 391AÚ)	049				
8.	Iné pohľadávky (335AÚ + 373AÚ + 375AÚ + 378AÚ) - 391AÚ	050	105.56		105.56	
B.IV.	Finančné účty r. 052 až r. 056	051	192257.07		192257.07	255632.94
B.IV.1.	Pokladnica (211 + 213)	052	87.15		87.15	92.3
2.	Bankové účty (221 AÚ + 261)	053	192169.92		192169.92	255540.64
3.	Bankové účty s dobou viazanosti dlhšou ako jeden rok (221 AÚ)	054				
4.	Krátkodobý finančný majetok(251+ 253 + 255AÚ+ 256 + 257) - 291AÚ	055				
5.	Obstaranie krátkodobého finančného majetku (259 - 291AÚ)	056				
C. ČASOVÉ ROZLIŠENIE SPOLU r. 058 a r. 059		057	5250.11		5250.11	3384.41
C.1.	Náklady budúcich období (381)	058	5250.11		5250.11	3384.41
2.	Príjmy budúcich období (385)	059				
MAJETOK SPOLU r. 001 + r. 029 + r. 057		060	11780787.18	6520287.02	5260500.16	5409682.13

Strana pasív		č.r.	Bežné účtovné obdobie	Bezprostredne predchádzajúce účtovné obdobie
a		b	5	6
A. VLASTNÉ IMANIE r. 062+ r. 067 + r. 071 + r. 072		061	2942140.77	2942248.87
A.I. Imanie a fondy r. 063 až r. 066		062	2928891.76	2928891.76
A.I.1. Základné imanie (411)		063	2928891.76	2928891.76
2. Fondy tvorené podľa osobitných predpisov (412)		064		
3. Fond reprodukcie (413)		065		
4. Oceňovacie rozdiely z precenenia kapitálových účastín (415)		066		
A.II. Fondy tvorené zo zisku r. 068 až r. 070		067	3357.11	
A.II.1. Rezervný fond (421)		068	3357.11	
2. Fondy tvorené zo zisku (423)		069		
3. Ostatné fondy (427)		070		
A.III. Nevysporiadaný výsledok hospodárenia minulých rokov (+; - 428)		071	10000	9993.84
A.IV. Výsledok hospodárenia za účtovné obdobie r. 060 - (r. 062 + r. 067 + r. 071 + r. 073 + r. 100)		072	-108.1	3363.27
B. ZÁVÄZKY r. 074 + r. 078 + r. 086 + r. 096		073	11842.46	13158.6
B.I.1. Rezervy r. 075 až r. 077		074		
2. Rezervy zákonné (451AÚ)		075		
3. Ostatné rezervy (459AÚ)		076		
4. Krátkodobé rezervy (323 + 451AÚ + 459AÚ)		077		
B.II. Dlhodobé záväzky r. 079 až r. 085		078	2340.04	2177.7
B.II.1. Záväzky zo sociálneho fondu (472)		079	2340.04	2177.7
2. Vydané dlhopisy (473 - 255 AÚ)		080		
3. Záväzky z nájmu (474 AÚ)		081		
4. Dlhodobé prijaté preddavky (475)		082		
5. Dlhodobé nevyfakturované dodávky (476 AÚ)		083		
6. Dlhodobé zmenky na úhradu (478)		084		
7. Ostatné dlhodobé záväzky (373 AÚ + 479 AÚ)		085		
B.III. Krátkodobé záväzky r. 087 až r. 095		086	9502.42	10980.9
B.III.1. Záväzky z obchodného styku (321 až 326) okrem 323		087	8816.54	9482.86
2. Záväzky voči zamestnancom (331+ 333)		088	105.79	2.95
3. Zúčtovanie so Sociálnou poisťovňou a zdravotnými poisťovňami (336)		089		
4. Daňové záväzky (341 až 345)		090	580.09	1495.09
5. Záväzky z dôvodu finančných vzťahov k štátnemu rozpočtu a rozpočtom územnej samosprávy (346+348)		091		
6. Záväzky z upísaných nesplatených cenných papierov a vkladov (367)		092		
7. Záväzky voči účastníkom združení (368)		093		
8. Spojovací účet pri združení (396)		094		
9. Ostatné záväzky (379 + 373 AÚ + 474 AÚ +476AÚ + 479 AÚ)		095		
B.IV. Bankové úvery a iné výpomoci a pôžičky r. 097 až r. 099		096		
B.IV.1. Dlhodobé bankové úvery (461AÚ)		097		
2. Bežné bankové úvery (231+ 232 + 461AÚ)		098		
3. Prijaté krátkodobé finančné výpomoci (241+ 249)		099		
C. ČASOVÉ ROZLIŠENIE SPOLU r. 101 až r. 103		100	2306516.93	2454274.66
C.I.1. Výdavky budúcich období (383)		101		
2. Výnosy budúcich období krátkodobé (384 AÚ)		102	163258.19	216337.43
3. Výnosy budúcich období dlhodobé (384 AÚ)		103	2143258.74	2237937.23
SPOLU VLASTNÉ IMANIE, ZÁVÄZKY A ÚČTY ČASOVÉHO ROZLIŠENIA r.061+ r.073 + r.100		104	5260500.16	5409682.13

Číslo účtu	Náklady	Číslo riadku	Činnosť			Bezprostredne predchádzajúce účtovné obdobie
			Hlavná nezdaňovaná	Zdaňovaná	Spolu	
a	b	c	1	2	3	4
501	Spotreba materiálu	01	78467.16		78467.16	71545.84
502	Spotreba energie	02	95407.2		95407.2	111406.97
504	Predaný tovar	03				
511	Opravy a udržiavanie	04	75651.24		75651.24	175804.28
512	Cestovné	05	83611.27		83611.27	56395.81
513	Náklady na reprezentáciu	06	114.57		114.57	71.63
518	Ostatné služby	07	59740.86		59740.86	40061.22
521	Mzdové náklady	08	1258494.32		1258494.32	1152428.31
524	Zákonné sociálne poistenie a zdravotné poistenie	09	441470.86		441470.86	402472.31
525	Ostatné sociálne poistenie	10				
527	Zákonné sociálne náklady	11	35486.37		35486.37	35684.86
528	Ostatné sociálne náklady	12				
531	Daň z motorových vozidiel	13				
532	Daň z nehnuteľností	14	231.05		231.05	231.05
538	Ostatné dane a poplatky	15	337.8		337.8	703.62
541	Zmluvné pokuty a penále	16				
542	Ostatné pokuty a penále	17				
543	Odpísanie pohľadávky	18				
544	Úroky	19				
545	Kurzové straty	20	84.81		84.81	55.07
546	Dary	21				
547	Osobitné náklady	22	420		420	
548	Manká a škody	23				
549	Iné ostatné náklady	24	65774.15		65774.15	49034.25
551	Odpisy dlhodobého nehmotného majetku a dlhodobého hmotného majetku	25	127471.13		127471.13	215617.48
552	Zostatková cena predaného dlhodobého nehmotného majetku a dlhodobého hmotného majetku	26				
553	Predané cenné papiere	27				
554	Predaný materiál	28				
555	Náklady na krátkodobý finančný majetok	29				
556	Tvorba fondov	30				
557	Náklady na precenenie cenných papierov	31				
558	Tvorba a zúčtovanie opravných položiek	32				
561	Poskytnuté príspevky organizačným zložkám	33				
562	Poskytnuté príspevky iným účtovným jednotkám	34				
563	Poskytnuté príspevky fyzickým osobám	35				
565	Poskytnuté príspevky z podielu zaplatenej dane	36				
567	Poskytnuté príspevky z verejnej zbierky	37				
Účtová trieda 5 spolu r. 01 až r. 37		38	2322762.79		2322762.79	2311512.7

Číslo účtu	Výnosy	Číslo riadku	Činnosť			Bezprostredne predchádzajúce účtovné obdobie
			Hlavná nezdaňovaná	Zdaňovaná	Spolu	
a	b	c	1	2	3	4
601	Tržby za vlastné výrobky	39				
602	Tržby z predaja služieb	40	13668.98		13668.98	15837.27
604	Tržby za predaný tovar	41				
611	Zmena stavu zásob nedokončenej výroby	42				
612	Zmena stavu zásob polotovarov	43				
613	Zmena stavu zásob výrobkov	44				
614	Zmena stavu zásob zvierat	45				
621	Aktivácia materiálu a tovaru	46				
622	Aktivácia vnútroorganizačných služieb	47				
623	Aktivácia dlhodobého nehmotného majetku	48				
624	Aktivácia dlhodobého hmotného majetku	49				
641	Zmluvné pokuty a penále	50				
642	Ostatné pokuty a penále	51				
643	Platby za odpísané pohľadávky	52				
644	Úroky	53				
645	Kurzové zisky	54	35.74		35.74	
646	Prijaté dary	55				
647	Osobitné výnosy	56				
648	Zákonné poplatky	57				
649	Iné ostatné výnosy	58	14374.9		14374.9	9757.76
651	Tržby z predaja dlhodobého nehmotného majetku a dlhodobého hmotného majetku	59				
652	Výnosy z dlhodobého finančného majetku	60				
653	Tržby z predaja cenných papierov a podielov	61				
654	Tržby z predaja materiálu	62				
655	Výnosy z krátkodobého finančného majetku	63				
656	Výnosy z použitia fondu	64				
657	Výnosy z precenenia cenných papierov	65				
658	Výnosy z nájmu majetku	66		5800.91	5800.91	5701.24
661	Prijaté príspevky od organizačných zložiek	67				
662	Prijaté príspevky od právnických osôb	68	1737.14		1737.14	
663	Prijaté príspevky od fyzických osôb	69				
664	Prijaté členské príspevky	70				
665	Príspevky z podielu zaplatenej dane	71				
667	Prijaté príspevky z verejných zbierok	72				
691	Dotácie	73	2287617.12		2287617.12	2284434.88
Účtová trieda 6 spolu r. 39 až r. 73		74	2317433.88	5800.91	2323234.79	2315731.15
Výsledok hospodárenia pred zdanením r. 74 - r. 38		75	-5328.91	5800.91	472	4218.45
591	Daň z príjmov	76		580.1	580.1	855.18
595	Dodatočné odvody dane z príjmov	77				
Výsledok hospodárenia po zdanení (r. 75 - (r. 76 + r. 77)) (+/-)		78	-5328.91	5220.81	-108.1	3363.27

Čl. I.

1. Identifikačné údaje účtovnej jednotky

Názov účtovnej jednotky: Astronomický ústav SAV, v. v. i., ďalej AsÚ

Sídlo účtovnej jednotky: Tatranská Lomnica, 059 60 Vysoké Tatry

IČO: 00166529

Dátum zriadenia: 1953

Spôsob zriadenia: Zakladacia listina bola schválená Predsedníctvom Slovenskej akadémie vied na zasadnutí dňa 28. 10. 2021. Vydaná bola Slovenskou akadémiou vied v Bratislave dňa 15. 11. 2021, číslo: 06147/2021 a účinnosť nadobudla 1. 1. 2022. Dňa 27. septembra 2023 vydala Slovenská akadémia vied v Bratislave Úplné znenie Zakladacej listiny v znení dodatku č. 1 zo dňa 27. septembra 2023 (číslo: 5183/2023).

Názov zriaďovateľa: Slovenská akadémia vied

Sídlo zriaďovateľa: Bratislava

Účtovná jednotka je súčasťou konsolidovaného celku kapitoly Slovenská akadémia vied

Detašované pracoviská: Astronomický ústav – Oddelenie medziplanetárnej hmoty: Dúbravská cesta 9, Bratislava

Právny dôvod zostavenia účtovnej závierky: účtovná závierka je zostavená ako riadna účtovná závierka za účtovné obdobie od 1. januára do 31. decembra 2025 podľa zákona č. 431/2002 Z. z. o účtovníctve.

2. Organizačné členenie ÚJ:

Vedenie ÚJ:

Riaditeľ AsÚ - Mgr. Peter Gömöry, PhD. – **vedúci Oddelenia fyziky Slnka**, ďalej OFS. Výskum v Oddelení fyziky Slnka je zameraný predovšetkým na magnetizmus, dynamiku a variabilitu slnečnej atmosféry.

Zástupca riaditeľa AsÚ - Mgr. Marián Jakubík, PhD. – **vedúci Oddelenia medziplanetárnej hmoty**, ďalej MPH. Skúmané sú prechodové dráhy medzi rôznymi populáciami medziplanetárnych telies v Slnečnej sústave predovšetkým z hľadiska k Zemi sa približujúcich objektov (NEO).

RNDr. Theodor Pribulla, CSc. - **vedúci Stelárneho oddelenia**, ďalej STO. Výskum symbiotických hviezd a nov je zameraný na fyzikálne procesy počas vzplanutí ako sú výtrysky hmoty, jej akrecia alebo odhodenie obálky.

Mgr. Natália Shagátová, PhD. – **vedecká tajomníčka**,

Mgr. Bibiána Pažická – **vedúca Hospodársko-správneho útvaru**, ďalej HsÚ.

Dozorná rada zloženie od 01.07.2025:

Doc. RNDr. Pavol Hvizdoš, DrSc. (predseda rady) – Slovenská akadémia vied,
 prof. Ing. Vladimír Nečas, PhD. – Slovenská technická univerzita,
 Ing. Romana Jurkiewiczová – Slovenská akadémia vied.

Dozorná rada zloženie do 15.5.2025:

Mgr. Martin Venhart, PhD. (predseda rady) – Slovenská akadémia vied,
 prof. Ing. Vladimír Nečas, PhD. – Slovenská technická univerzita,
 Ing. Romana Jurkiewiczová – Slovenská akadémia vied.

Správna rada:

Mgr. Peter Gömöry, PhD. – predseda, riaditeľ AsÚ,
 Mgr. Marián Jakubík, PhD. – podpredseda, zástupca riaditeľa AsÚ,
 Mgr. Ľubomír Hambálek, PhD. – člen, STO,
 Mgr. Dušan Tomko, PhD. – člen, MPH,
 Mgr. Martin Vaňko, PhD. – člen, STO.

Vedecká rada do 31.5.2025:

RNDr. Aleš Kučera, CSc. – predseda, Astronomický ústav SAV, v. v. i., OFS,
 RNDr. Theodor Pribulla, CSc. – podpredseda, Astronomický ústav SAV, v. v. i., STO,
 Ing. Ján Baláž, PhD. – člen, Ústav experimentálnej fyziky SAV, v. v. i., Košice,
 RNDr. Mária Hajduková, PhD. – člen, Astronomický ústav SAV, v. v. i., MPH,
 Mgr. Marek Husárik, PhD. – člen, Astronomický ústav SAV, v. v. i., MPH,
 Doc. RNDr. Leonard Kornoš, PhD. – člen, Oddelenie astronómie a astrofyziky, Katedra
 astronómie, fyziky Zeme a meteorológie, Fakulta matematiky, fyziky a informatiky, Univerzita
 Komenského, Bratislava,

Ing. Hana Meszárosová, PhD. – člen, Astronomický ústav AV ČR, Ondřejov, Česká republika,
 RNDr. Luboš Neslušan, CSc. – člen, Astronomický ústav SAV, v. v. i., MPH,
 RNDr. Ján Rybák, CSc. – člen, Astronomický ústav SAV, v. v. i., OFS,
 Mgr. Natália Shagatová, PhD. – člen, Astronomický ústav SAV, v. v. i., STO,
 Mgr. Pavol Schwartz, PhD. – člen, Astronomický ústav SAV, v. v. i., OFS,
 RNDr. Augustín Skopal, Dr.Sc. – člen, Astronomický ústav SAV, v. v. i., STO,
 Doc. RNDr. Marek Wolf, CSc. – člen, Univerzita Karlova Praha, Matematicko-fyzikální fakulta,
 Astronomický ústav, Česká republika.

Vedecká rada od 1.6.2025:

Mgr. Zuzana Kaňuchová, PhD. – predseda, Astronomický ústav SAV, v. v. i. - MPH,
 RNDr. Ján Budaj, DrSc. – podpredseda, Astronomický ústav SAV, v. v. i. – STO,

RNDr. Miroslav Bárta, PhD. – externý člen,
 doc. Ing. Peter Butka, PhD. – externý člen,
 Mgr. Marek Husárik, PhD. – Astronomický ústav SAV, v. v. i. – MPH,
 Oleksandra Ivanova, PhD. – Astronomický ústav SAV, v. v. i. – MPH,
 doc. RNDr. Tomáš Lučivjanský, PhD. – externý člen,
 RNDr. Richard Komžík, CSc. – Astronomický ústav SAV, v. v. i. – STO,
 Doc. RNDr. Leonard Kornoš, PhD. – externý člen,
 Mgr. Emil Kundra, PhD. – Astronomický ústav SAV, v. v. i. – STO,
 Ing. Ján Michlík – externý člen
 RNDr. Theodor Pribulla, CSc. – Astronomický ústav SAV, v. v. i. – STO
 RNDr. Ján Rybák, CSc. – Astronomický ústav SAV, v. v. i. – OFS,
 RNDr. Metod Saniga, DrSc. – Astronomický ústav SAV, v. v. i. – OFS,
 doc. RNDr. Peter Zasche, PhD. – externý člen

3. Predmet činnosti účtovnej jednotky:

Prevažujúcou hlavnou činnosťou organizácie je uskutočňovanie výskumu v podskupine odborov vedy a techniky: Fyzikálne vedy (010300), najmä v odboroch: Astrofyzika (010301) a Astronómia (010302). Ďalšími hlavnými činnosťami organizácie sú:

- 1) zabezpečovanie a správa infraštruktúry výskumu a vývoja, ku ktorej má organizácia vlastnícke právo alebo iné právo; rozsah infraštruktúry výskumu a vývoja, práva ku ktorej organizácia nadobudla zmenou právnej formy organizácie na verejnú výskumnú inštitúciu dňa 1. 1. 2022,
- 2) získavanie, spracúvanie a šírenie informácií z oblasti vedy a techniky a poznatkov z vlastného výskumu a vývoja organizácie, a to v odboroch vedy a techniky: Fyzikálne vedy (010300), najmä v odboroch: Astrofyzika (010301) a Astronómia (010302),
- 3) podieľanie sa v spolupráci s vysokou školou na uskutočňovaní študijných programov tretieho stupňa vysokoškolského štúdia, a to študijného programu astrofyzika a astronómia,
- 4) spolupráca v oblasti vedy a techniky s vysokými školami, ostatnými právnickými osobami uskutočňujúcimi výskum a vývoj a s podnikateľmi, a to v odboroch vedy a techniky: Fyzikálne vedy (010300), najmä v odboroch: Astrofyzika (010301) a Astronómia (010302).

4. Počet zamestnancov

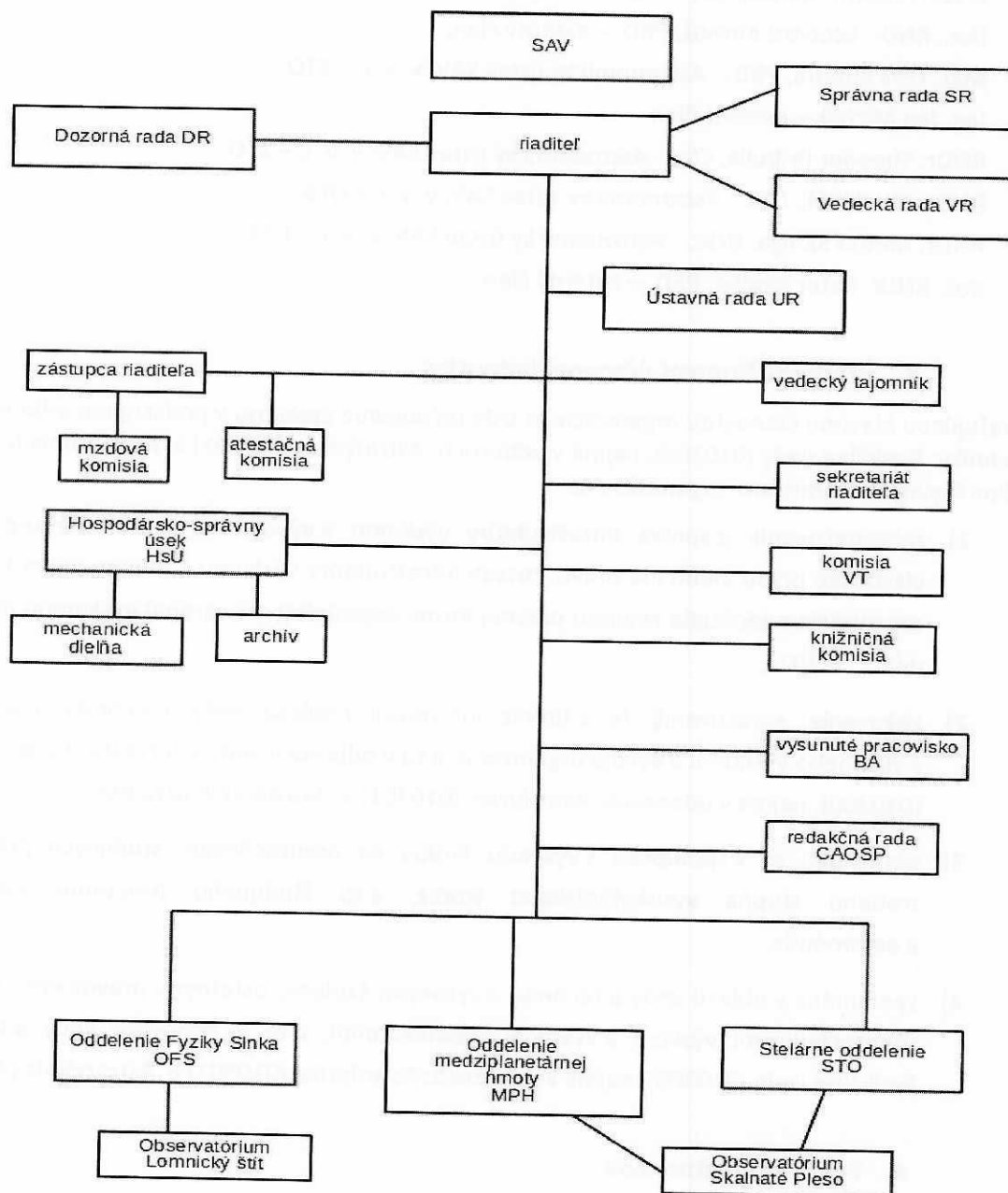
Názov	Bežné účtovné obdobie	Počet hodín vykonávania dobrovoľníckej činnosti
Priemerný prepočítaný počet zamestnancov	50,39	x
Počet vedúcich zamestnancov	4	x
Počet dobrovoľníkov vyslaných účtovnou jednotkou	0	x

Počet dobrovoľníkov, ktorí vykonávali dobrovoľnícku činnosť pre ÚJ počas účtovného obdobia

0

x

5. Organizačná štruktúra



6. Informácie o organizáciách v zriaďovateľskej pôsobnosti účtovnej jednotky

Astronomický ústav SAV, v. v. i. nemá organizácie v zriaďovateľskej pôsobnosti.

ČI. II.

7. Informácie o účtovných zásadách a účtovných metódach

Účtovná jednotka (ďalej ÚJ) uplatňuje princípy a postupy účtovania v súlade so zákonom o účtovníctve a s postupmi účtovania pre neziskové organizácie, ktoré boli účtovnou jednotkou konzistentne aplikované v r. 2022. ÚJ zostavuje Súvahu, Výkaz ziskov a strát a Poznámky k Účtovnej závierke za rok 2025 za nepretržitého pokračovania v činnosti ÚJ aj v nasledujúcom účtovnom období a vykazuje bezprostredne predchádzajúce obdobie. Náklady a výnosy sa účtujú do obdobia, s ktorým časovo a vecne súvisia.

- 1) V r. 2024 došlo k zmenám použitých účtovných zásad a účtovných metód, v r. 2025 nenastali zmeny v spôsobe účtovania:
 - a) Usmernením č. MF/006583/2024-74 zo dňa 23.1.2024. V zmysle tohto usmernenia ÚJ má uzavreté s poskytovateľom dotácií viacročné zmluvy o pridelení dotácie účtuje o pohľadávke voči poskytovateľovi dotácie na ročnej báze. ÚJ upravila účtovanie prisľúbených dotácií s Agentúrou na podporu výskumu a vývoja. Predpis dotácie na strane MD 346 a na strane Dal účtu 384. Následne v priebehu účtovného obdobia v časovej a vecnej súvislosti s účtovaním nákladov sa zúčtuje účet 384 do výnosov na účte 691 – Dotácie.
 - b) Usmernením č. MF/008411/2024-74 zo dňa 08.3.2024. ÚJ účtuje o refundačných dotáciách, ktoré boli financované z vlastných zdrojov v minulých účtovných obdobiach, ak sa takáto refundačná dotácia nepoužila v období, v ktorom bola prijatá, je časovo rozlíšená prostredníctvom účtu 384 – Výnosy budúcich období. Nakoľko refundácie nie sú vlastným zdrojom, ale transferom, ÚJ ho uvádza na mesačnej báze vo výkazoch FIN-12 a súčasne ho zahŕňa do tabuľky č. 191 odsúhlasovacieho formulára konsolidačného balíka. Účtovanie dotácie na účte 384 – Výnosy budúcich období a následne v časovej a vecnej súvislosti s účtovaním nákladov ich zúčtováva na účte 691 – Dotácie.
- 2) Opravy chýb minulých účtovných období je nasledovný:
 - a) podľa § 5 ods. 1 sa opravy nevýznamných nákladov a nevýznamných výnosov minulých účtovných období účtujú ako účtovné prípady bežného účtovného obdobia na príslušných účtoch nákladov alebo výnosov z hospodárskej činnosti,
 - b) podľa § 59 ods. 13 sa opravy významných nákladov a významných výnosov minulých účtovných období účtujú na účte 428 – Nerozdelený zisk minulých rokov alebo na účte 429 – Neuhradená strata minulých rokov.
- 3) Zásada aktuálneho vedenia účtovníctva. ÚJ účtuje o nákladoch a výnosoch v období, s ktorým vecne a časovo súvisia, a to bez ohľadu na to, či došlo k platbe. Znamená to, že sa

účtujú aj časové rozlíšenia (náklady a výnosy budúcich období, výdavky a príjmy budúcich období), aby sa zabezpečilo priradenie výnosov k nákladom v danom období.

- 4) Účtovníctvo sa vedie v peňažných jednotkách euro.
- 5) Spôsob ocenenia jednotlivých položiek majetku:
 - a) dlhodobý nehmotný a hmotný majetok nakupovaný sa oceňuje obstarávacou cenou. Obstarávacía cena zahŕňa cenu, za ktorú sa majetok obstaral a vedľajšie náklady súvisiace s jeho obstaraním (clo, preprava, montáž, poistné a pod.),
 - b) dlhodobý majetok nadobudnutý bezodplatným prevodom pri splynutí, zlúčení, rozdelení alebo pri prevode správy sa oceňuje cenou, v ktorej sa doteraz viedol v účtovníctve. Ak cenu nie je možné zistiť, oceňuje sa reálnou cenou. Dlhodobý majetok obstaraný iným spôsobom (napr. bezodplatne nadobudnutý majetok, novozistený majetok pri inventarizácii) sa oceňuje reálnou cenou. Reálnou hodnotou sa rozumie cena, ktorá sa stanoví kvalifikovaným odhadom, ktorý vychádza spravidla zo súčasnej hodnoty budúcich peňažných príjmov z majetku a budúcich peňažných výdavkov na majetok; diskontná sadzba sa určí ako vnútorná miera návratnosti požadovaná investormi pre daný druh majetku ku dňu jeho ocenenia, za ktorú by sa majetok obstaral v čase, keď sa o ňom účtuje,
 - c) zásoby sa oceňujú obstarávacou cenou, ktorá zahŕňa cenu obstarania a náklady súvisiace s obstaraním (clo, preprava, poistné a pod.). Používa sa metóda špecifickej identifikácie: vie sa presne identifikovať pôvod a obstarávacía cena každej jednotlivej položky zásob.
 - d) pohľadávky pri ich vzniku sa oceňujú menovitou hodnotou,
 - e) finančné prostriedky a ceniny sa oceňujú ich menovitou hodnotou,
 - f) príjmy budúcich období a náklady budúcich období sa vykazujú vo výške, ktorá je potrebná na dodržanie zásady vecnej a časovej súvislosti s účtovným obdobím,
 - g) záväzky pri ich vzniku sa oceňujú ich menovitou hodnotou. Pri záväzkoch v cudzej mene sa záväzok prepočítava na eurá referenčným výmenným kurzom určeným a vyhláseným Európskou centrálnou bankou alebo Národnou bankou Slovenska v deň predchádzajúci dňu uskutočnenia účtovného prípadu.
 - h) rezervy sú záväzky s neistým časovým vymedzením alebo výškou, tvoria sa na základe opatrnosti a oceňujú sa v očakávanej výške záväzku v sume dostatočnej na jeho splnenie,
- 6) výnosy budúcich období: príjmy v bežnom účtovnom období, ktoré hospodársky patria do výnosov v budúcich obdobiach a
 - majú prechodný, krátkodobý charakter medzi účtovnými obdobiami, najmä nevyčerpané dotácie, príspevky a granty, ktoré sa môžu použiť v nasledujúcom období, ale aj nepoužitý podiel zaplatenej dane, sponzorstvo, vopred prijaté nájomné, ktoré sa môžu použiť v nasledujúcom období a pod.,
 - dlhodobý charakter z prijatej dotácie, príspevku, grantu alebo daru na dlhodobý majetok.

- 7) opravné položky k pohľadávkam sa tvoria na základe zásady opatrnosti, vyjadrujú prechodné zníženie ich hodnoty,
- 8) účtovná jednotka je platiteľom dane z pridanej hodnoty podľa § 7 aj § 7a zákona o Dani z pridanej hodnoty. V prípadoch, keď tuzemskí dodávatelia sú platiteľmi DPH, fakturovaná DPH je súčasťou ocenenia dlhodobého majetku, zásob, nákladov,
- 9) kapitálový transfer prijatý od zriaďovateľa sa zúčtuje do výnosov vo vecnej a časovej súvislosti s nákladmi z majetku obstaraného z tohto kapitálového transferu,
- 10) ÚJ netvorí rezervu na opakujúce povinnosti, ako je rezerva na nevyčerpané dovolenky vrátane súvisiacich odvodov, rezervy na audit účtovnej závierky a výročnej správy,
- 11) Spôsob zostavenia odpisového plánu dlhodobého hmotného a nehmotného majetku

Odpisy dlhodobého majetku boli stanovené v súlade so zákonom o účtovníctve. Pri stanovení doby odpisovania sa vychádzalo z predpokladanej doby jeho používania a predpokladaného priebehu jeho opotrebenia. Odpisovať sa začína prvým dňom mesiaca, v ktorom bol dlhodobý majetok zaradený do používania. Metóda odpisovania sa používa rovnomerná.

Predpokladaná doba používania dlhodobého majetku

Dlhodobý majetok	Predpokladaná doba používania	Ročná odpisová sadzba v %
Dlhodobý nehmotný majetok	4	25
Dlhodobý hmotný majetok		
- Budovy, inžinierske stavby	50	2
- Stroje, prístroje a zariadenia	4 až 8	12,50 až 25
- Dopravné prostriedky	4 až 6	16,67 až 25

Ako dlhodobý majetok sa neúčtuje:

- a) drobný nehmotný majetok do 2 400,00 EUR, ktorý podľa rozhodnutia účtovnej jednotky nie je dlhodobým nehmotným majetkom, a ktorý sa účtuje pri obstaraní do nákladov na účet 518 – Ostatné služby. Uvedený drobný nehmotný majetok sa bude financovať z bežných výdavkov,
- b) drobný hmotný majetok od 100,01 EUR do 1 700,00 EUR, ktorý podľa rozhodnutia účtovnej jednotky nie je dlhodobým hmotným majetkom, a ktorý sa účtuje ako zásoby, je evidovaný v skladovej evidencii až do vydania do spotreby. Uvedený drobný hmotný majetok sa bude financovať z bežných výdavkov. Drobný majetok, ktorý sa neúčtuje ako zásoba je vedený v operatívnej evidencii,
- c) drobný hmotný majetok do 100,00 EUR sa účtuje do nákladov na účet 501 – Spotreba materiálu.

Čl. III

8. Informácie, ktoré dopĺňajú a vysvetľujú údaje v súvahe

- 1) Významné sumy prírastkov a úbytkov dlhodobého nehmotného majetku a dlhodobého hmotného majetku.

V roku 2025 boli do veľkého majetku pre vedecké účely zakúpené dve CMOS kamery s príslušenstvom. Tieto profesionálne CMOS kamery sú nevyhnutné pre vysokokvalitné fotometrické pozorovania objektov nočnej oblohy. Okrem toho bola zakúpená nová optická súčiastka (achromatická doštička) nevyhnutná pre nové zariadenie určené na polarimetrickú kalibráciu prístroja CoMP-S.

1. CMOS C3-61000 v sume 11 452,53 € s DPH,

2. CMOS C4-16000 v sume 25 401,96 € s DPH,

3. achromatická doštička v sume 3 460,60 € s DPH.

- Na účte obstaranie dlhodobého hmotného majetku – technické zhodnotenie je suma **62 279,35 €**. Z toho v sume:

- **30 920,60 €** sú náklady projektovej dokumentácie „Zameranie-zníženie energetickej náročnosti – Observatória Skalnate Pleso“ z r. 2024 v sume 30 250,00 € a v r. 2025 AsÚ z vlastných zdrojov 46 uhradil poplatky vo výške 670,60 €.

- **22 858,75 €** je za zhotovenie projektovej dokumentácie „Zníženie energetickej náročnosti budovy Vila Tatra – komplexná rekonštrukcia stavby“ finančné prostriedky z r. 2024 boli vo výške 22 400,00 € a v r. 2025 sa uhradili poplatky v sume 458,75 € z vlastných zdrojov.

- **5 000,00 €** je za projektovú dokumentáciu Observatória Lomnický štít r. 2024 z Výkonnostných zmlúv.

- **3 500,00 €** projektová dokumentácia na prestrešenie vonkajšieho schodiska budova AsÚ uhradená z vlastných zdrojov 46.

AsÚ Prehľad dlhodobého majetku, na ktorý je zriadené záložné právo a prehľad dlhodobého majetku, pri ktorom má účtovná jednotka obmedzené právo s ním nakladať.

ÚJ nemá zriadené záložné právo na dlhodobom majetku.

- 2) Údaje o štruktúre dlhodobého finančného majetku za bežné účtovné obdobie a jeho umiestnenie v členení podľa položiek súvahy v riadkoch 022 a 023.

Názov účtovnej jednotky	Podiel na základnom imaní (v %)	Podiel účtovnej jednotky na hlasovacích právach (v %)
Astronomický ústav SAV, v. v. i.	100%	100%

3) Údaje o štruktúre dlhodobého finančného majetku a krátkodobého finančného majetku v členení podľa položiek súvahy v riadkoch 024, 026 a 055.

Opis druhu finančného majetku	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Stav na konci bežného účtovného obdobia
x	x	x

4) Údaje o štruktúre dlhodobých pôžičiek.

Poskytnuté dlhodobé pôžičky	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Stav na konci bežného účtovného obdobia
x	x	x

5) Prehľad o vývoji významných súm opravných položiek podľa jednotlivých druhov majetku.

Druh majetku, ku ktorému sa tvorí opravná položka	Stav opravnej položky na konci bezprostredne predchádzajúceho účtovného obdobia	Tvorba opravnej položky (zvýšenie)	Zúčtovanie opravnej položky (použitie, zrušenie)	Stav opravnej položky na konci bežného účtovného obdobia
x	x	x	x	x

6) Opis významných súm pohľadávok v nadväznosti na položky súvahy, v členení na pohľadávky za hlavnú nezdaňovanú činnosť a zdaňovanú činnosť za bežné účtovné obdobie.

Druh a opis významných položiek pohľadávok	Hlavná nezdaňovaná činnosť	Zdaňovaná činnosť
Pohľadávky z dôvodu finančných vzťahov k ŠR	0,00	0,00
Pohľadávky z obchodného styku v lehote splatnosti	0,00	0,00
Ostatné pohľadávky	105,56	0,00

7) Prehľad pohľadávok do uplynutia lehoty splatnosti a po uplynutí lehoty splatnosti.

Pohľadávky	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Stav na konci bežného účtovného obdobia
- do uplynutia lehoty splatnosti	5 321,87	105,56
- po uplynutí lehoty splatnosti	0,00	0,00
Spolu	5 321,87	105,56

8) Prehľad o významných položkách časového rozlíšenia nákladov budúcich období a príjmov budúcich období.

Významné položky na časovom rozlíšení sú licencie Eset – antivírusová ochrana počítačov, IDL licencia a poistenia motorových vozidiel.

9) Opis a výška zmien vlastného imania v priebehu bežného účtovného obdobia podľa položiek súvahy.

V r. 2025 nedošlo k zmene vlastného imania.

	Stav na začiatku bežného účtovného obdobia	Prírastky (+)	Úbytky (-)	Presuny (+, -)	Stav na konci bežného účtovného obdobia
Vlastné imanie					
Základné imanie	2 928 891,76	0,00	0,00	0,00	2 928 891,76
z toho:					
- nadačné imanie v nadácii	0,00	0,00	0,00	0,00	0,00
- vklady zakladateľov	0,00	0,00	0,00	0,00	0,00
- prioritný majetok	2 928 891,76	0,00	0,00	0,00	2 928 891,76
Fondy tvorené podľa osobitných predpisov	0,00	0,00	0,00	0,00	0,00
Fond reprodukcie	0,00	0,00	0,00	0,00	0,00
Oceňovacie rozdiely z precenenia kapitálových účastí	0,00	0,00	0,00	0,00	0,00
Fondy tvorené zo zisku					
Rezervný fond	0,00	3 357,11	0,00	0,00	3 357,11

Fondy tvorené zo zisku	0,00	0,00	0,00	0,00	0,00
Ostatné fondy	0,00	0,00	0,00	0,00	0,00
Výsledok hospodárenia					
Nevysporiadaný výsledok hospodárenia minulých rokov	9 993,84	6,16	0,00		10 000,00
Výsledok hospodárenia účtovného obdobia	3 363,27	- 108,10	0,00	- 3 363,27	-108,10

10) Opis a vyčíslenie jednotlivých druhov fondov tvorených podľa osobitných predpisov.

Opis fondov tvorených podľa osobitných predpisov	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Prírastky	Úbytky	Stav na konci bežného účtovného obdobia
0,00	0,00	0,00	0,00	0,00

11) Informácia o rozdelení účtovného zisku alebo o vysporiadaní účtovnej straty za bezprostredne predchádzajúce účtovné obdobie.

	Bezprostredne predchádzajúce účtovné obdobie
Účtovný zisk	9 993,84
Rozdelenie účtovného zisku	
Prídel do základného imania	0,00
Prídel do fondov tvorených podľa osobitných predpisov	0,00
Prídel do fondu reprodukcie	0,00
Prídel do rezervného fondu	3 357,11
Prídel do fondov tvorených zo zisku	0,00
Prídel do ostatných fondov	0,00
Úhrada straty minulých období	0,00
Prevod do sociálneho fondu	0,00
Prevod do nevysporiadaného výsledku hospodárenia minulých rokov	6,16
Iné	0,00
Účtovná strata	-108,10
Vysporiadanie účtovnej straty	
Zo základného imania	0,00
Z rezervného fondu	0,00
Z fondov tvorených zo zisku	0,00

Z ostatných fondov	0,00
Z nerozdeleného zisku minulých rokov	0,0
Prevod do nevysporiadaného výsledku hospodárenia minulých rokov	9 891,90
Iné	0,00

12) Údaje o jednotlivých druhoch rezerv v členení na stav rezerv na konci bezprostredne predchádzajúceho účtovného obdobia a stav rezerv na konci bežného účtovného obdobia, ich tvorbu, použitie alebo zrušenie v priebehu bežného účtovného obdobia.

Druh rezervy	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Tvorba rezerv	Použitie rezerv	Zrušenie rezerv	Stav na konci bežného účtovného obdobia
x	x	x	x	x	x
Zákonné rezervy spolu	0,00	3 357,11	0,00	0,00	3 357,11
Ostatné rezervy spolu	x	x	x	x	x
Rezervy spolu	x	x	x	x	x

13) Údaje o významných sumách záväzkov v nadväznosti na položky súvahy, v členení na záväzky za hlavnú nezdaňovanú činnosť a zdaňovanú činnosť.

Druh a opis významných položiek záväzkov	Hlavná nezdaňovaná činnosť	Zdaňovaná činnosť
Záväzky z obchodného styku	8 816,54	0,00
Záväzky voči Ministerstvu financií	580,09	0,00
Záväzky zo sociálneho fondu	2 340,04	0,00
Záväzky voči zamestnancom	105,79	

14) Prehľad záväzkov do uplynutia lehoty splatnosti a po uplynutí lehoty splatnosti.

Záväzky	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Stav na konci bežného účtovného obdobia
- do uplynutia lehoty splatnosti	11 842,46	
- po uplynutí lehoty splatnosti	0,00	0,00
Spolu	11 842,46	

15) Prehľad o začiatočnom stave, tvorbe, čerpaní a konečnom zostatku sociálneho fondu v priebehu bežného účtovného obdobia.

Sociálny fond	Suma
Stav k prvému dňu bežného účtovného obdobia	2 177,70
Tvorba na ťarchu nákladov	11 957,84
Tvorba zo zisku	0,00
Čerpanie	11 795,50

Stav k poslednému dňu bežného účtovného obdobia

2 340,04

16) Prehľad o bankových úveroch, pôžičkách a návratných finančných výpomociach s uvedením meny.

Druh cudzieho zdroja	Mena	Výška úroku v %	Splatnosť	Forma zabezpečenia	Suma istiny na konci bežného účtovného obdobia
Krátkodobý bankový úver	x	x	x	x	X
Pôžička	x	x	x	x	x
Návratná finančná výpomoc	x	x	x	x	x
Dlhodobý bankový úver	x	x	x	x	x
Spolu	x	x	x	x	x

17) Prehľad o významných položkách časového rozlíšenia výdavkov budúcich období. ÚJ na účte výdavky budúcich období na konci účtovného obdobia má 0,00 €.

18) Prehľad výnosov budúcich období v členení podľa jednotlivých druhov a v členení na dlhodobé výnosy budúcich období a krátkodobé výnosy budúcich období.

Položky výnosov budúcich období - dlhodobé z dôvodu	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Stav na konci bežného účtovného obdobia
bezodplatne nadobudnutého dlhodobého majetku	0,00	0,00
dlhodobého majetku obstaraného z verejných zdrojov	2 208 105,91	2 115 164,56
dlhodobého majetku obstaraného z finančného daru	0,00	0,00
dlhodobého majetku obstaraného z podielu zaplatenej dane	0,00	0,00
dlhodobého majetku obstaraného zo sponzorského	0,00	0,00
nepoužitého sponzorského	29 831,32	28 094,18
iné	0,00	0
Spolu	2 237 937,23	2 143 258,74

Položky výnosov budúcich období - krátkodobé z dôvodu	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Stav na konci bežného účtovného obdobia
dotácie zo štátneho rozpočtu a z prostriedkov Európskej únie	69 773,97	99 320,70
dotácie z rozpočtu obce a z rozpočtu vyššieho územného celku	0,00	0,00
zostatku podielu zaplatenej dane	0,00	0,00
nepoužitého sponzorského	0,00	0,00
Úrad vlády – Plán obnovy a odolnosti ďalej (POO)	146 563,46	62 753,34
iné	0,00	1 184,15
Spolu	216 337,43	163 258,19

19) Údaje o druhoch majetku a záväzkoch z lízinguových zmlúv.

Druh majetku	Hodnota záväzku	
	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Stav na konci bežného účtovného obdobia
	x	x

Čl. IV

9. Informácie, ktoré dopĺňajú a vysvetľujú údaje vo výkaze ziskov a strát

- 1) Prehľad tržieb za vlastné výkony a tovar s uvedením ich opisu a vyčíslením hodnoty tržieb podľa jednotlivých hlavných druhov výrobkov, služieb hlavnej nezdaňovanej činnosti a zdaňovanej činnosti účtovnej jednotky za bežné účtovné obdobie.

Druh a opis tržieb	Hlavná nezdaňovaná činnosť	Zdaňovaná činnosť
Tržby z prenájmu vlastného majetku		5 800,91
Tržby za poskytnutie astronomických údajov	4 500,00	
Tržby služieb SANET	9 168,98	
Výnosy zo ŠR	2 020 999,77	
Úrad vlády – Plán obnovy a odolnosti ďalej (POO)	129 389,93	
Výnosy z transferov EÚ	11 493,43	
Kapitálové výnosy	127 471,13	
Ostatné	14 410,64	
Spolu	2 317 433,88	5 800,91

- 2) Opis a vyčíslenie hodnoty významných súm v nadväznosti na položky výkazu ziskov a strát v členení na nepeňažné dary, osobitné výnosy, zákonné poplatky a iné ostatné výnosy za bezprostredne predchádzajúce účtovné obdobie a za bežné účtovné obdobie.

Druh a opis významných súm výnosov	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Stav na konci bežného účtovného obdobia
x	x	x

- 3) Prehľad významných súm dotácií zo štátneho rozpočtu ďalej ŠR, štátnych fondov, z prostriedkov Európskej únie, dotácií z rozpočtu obce a z rozpočtu vyššieho územného celku, ktoré účtovná jednotka prijala v bezprostredne predchádzajúcom účtovnom období a v bežnom účtovnom období.

Druh a opis významných súm dotácií a grantov	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Stav na konci bežného účtovného obdobia
Zníženie energetickej náročnosti budovy Observatória na Skalnatom plese - projektová dokumentácia - ŠR	33 250,00	33 250,00
Projekt zníženie energetickej náročnosti V. Tatra - ŠR	22 400,00	22 400,00
Projektová dokumentácia Lomnický štít - ŠR	5 000,00	5 000,00

V r. 2025 k projektovým dokumentáciám zo štátneho rozpočtu neboli žiadne nové dotácie. Na ďalšie potrebné úhrady poplatkov k projektovým dokumentáciám AsÚ použil vlastné zdroje.

Druh a opis významných položiek charitatívnej reklamy a charitatívnej lotérie	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Stav na konci bežného účtovného obdobia
x	x	x

- 4) Opis a vyčíslenie hodnoty významných súm v nadväznosti na položky výkazu ziskov a strát v členení na nepeňažné dary, náklady na ostatné služby, osobitné náklady a iné ostatné náklady poskytnuté v bežnom účtovnom období.

	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Stav na konci bežného účtovného obdobia
Oprava účelovej komunikácie a parkoviska AsÚ SAV, v. v. i. v Starej Lesnej	97 530,25	
Oprava podhľadu vestibulu AsÚ	34 956,08	
Oprava kotolne v hospodárskej časti AsÚ	14 079,78	

Výmena systému el. požiarnej signalizácie v budove AsÚ	9 940,57	
Oprava havarijného stavu vonkajšieho schodiska do budovy AsÚ v Starej Lesnej - ŠR		27 455,54
Oprava kancelárie hospodárskeho útvaru AsÚ - ŠR		18 813,90
Oprava dverí do kancelárií v budove AsÚ		14 015,05
Vlastné zdroje		2 172,72
ŠR		
Údržba ďalekohľadu v Observatóriu Skalnaté Pleso z projektu APVV		17 000,00

5) Prehľad o účele a výške použitia zostatku prijatého podielu zaplatenej dane v minulých účtovných obdobiach a prijatého podielu zaplatenej dane v bežnom účtovnom období.

Účel použitia prijatého podielu zaplatenej dane	Použitá suma zostatku z predchádzajúceho účtovného obdobia	Použitá suma z bežného účtovného obdobia
x	x	x
Zostatok podielu zaplatenej dane		x

Čl. V

10. Opis údajov na podsúvahových účtoch

Na podsúvahových účtoch je evidencia národnej kultúrnej pamiatky Hvezdáreň Skalnaté Pleso a Observatórium Lomnický štít, ktoré spravuje Astronomický ústav SAV, v. v. i.

Čl. VI

11. Ďalšie informácie

Účtovná jednotka nezaznamenala zmeny, ktoré by nastali medzi dňom, ku ktorému sa zostavuje účtovná závierka a dňom jej zostavenia.

V Tatranskej Lomnici, dňa 30.03.2026

Mgr. Bibiana Pažická
Vedúca HSÚ

Mgr. Peter Gömöry, PhD.
riaditeľ Astronomického ústavu SAV, v. v. i.

OZNÁMENIE



o dátume schválenia účtovnej závierky

zostavenej k 31.12.2025

Daňové identifikačné číslo SK 2021212512 IČO 00166529	Dátum zostavenia účtovnej závierky: 30.03.2026	Mesiac Rok od 01 2025 do 12 2025
	Dátum schválenia účtovnej závierky: 20.05.2026	Za obdobie
	Bezprostredne predchádzajúce obdobie	od 01 2024 do 12 2024

Účtovná závierka ☒ riadna ☐ mimoriadna	Typ účtovnej závierky ☐ individuálna ☐ konsolidovaná	(vyznačí sa x)

Typ účtovnej jednotky ☐ Podnikateľský subjekt účtujúci v sústave podvojného účtovníctva ☐ Mikro účtovná jednotka ☐ Nezisková organizácia účtujúca v sústave jednoduchého účtovníctva ☒ Nezisková organizácia účtujúca v sústave podvojného účtovníctva ☐ Účtovná jednotka účtujúca podľa IFRS	Fond Fond nehnuteľností Záručný fond, fond ochrany vkladov Subjekt kolektívneho investovania s právnou subjektivitou Obchodník s cennými papiermi účtujúci podľa slovenských právnych predpisov Platobná inštitúcia a inštitúcia elektronických peňazí účtujúca podľa slovenských právnych predpisov Pobočka zahraničnej finančnej inštitúcie	(vyznačí sa x)

Obchodné meno (názov) účtovnej jednotky

Astronomický ústav SAV, v.v.i

Názov spravovaného subjektu kolektívneho investovania

LEI (ak bolo pridelené)

Sídlo účtovnej jednotky

Ulica

Tatranská Lomnica

PSČ

Obec

05960 Vysoké Tatry

Telefónne číslo

0527879111

E-mailová adresa

astrinst@ta3.sk

Číslo

Podpisový záznam štatutárneho orgánu účtovnej jednotky alebo člena:

Príloha B-2 Správa štatutárneho audítora k ročnej účtovnej uzávierke

K ročnej účtovnej závierke Astronomického ústavu SAV, v. v. i. zostavenej za rok 2025 nebola vyhotovená správa štatutárneho audítora.