

Fyzikálny ústav SAV, v. v. i.



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

Bratislava
január 2026

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ČASŤ A

Fyzikálny ústav SAV, v. v. i.

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

1. Základné údaje o organizácii

1.1. Kontaktné údaje

Názov: Fyzikálny ústav SAV, v. v. i.

Riaditeľ: doc. Mgr. Mário Ziman, PhD.

Zástupca riaditeľa: Mgr. Andrej Herzáň, PhD.

Vedecký tajomník: Mgr. Erik Bartoš, PhD.

Predseda správnej rady: doc. Mgr. Mário Ziman, PhD.

Predseda vedeckej rady: Mgr. Erik Bartoš, PhD.

Predseda dozornej rady: prof. RNDr. Peter Samuely, DrSc., akademik US Slovenska

Členka Snemu SAV: RNDr. Katarína Gmucová, CSc.

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E-mail: secretary.fusav@savba.sk

Názvy a adresy organizačných zložiek a detašovaných pracovísk:

Organizačné zložky: nie sú

Detašované pracoviská:

- **Spoločné pracovisko EIÚ a FÚ SAV**
Vrbovská cesta 5051/110, 92101 Piešťany

Vedúci organizačných zložiek a detašovaných pracovísk:

Organizačné zložky: nie sú

Detašované pracoviská:

- **Spoločné pracovisko EIÚ a FÚ SAV**
Silvia Bačová

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	102	73	29	6	4	102	79.76	62.64	5
Vedeckí pracovníci	75	63	12	3	2	75	58.74	57.37	1
Odborní pracovníci VŠ (výskumní a vývojoví zamestnanci ¹)	8	6	2	3	1	8	3.67	3.67	0
Odborní pracovníci VŠ (ostatní zamestnanci ²)	8	0	8	0	1	8	8.42	0	3
Odborní pracovníci ÚS	10	3	7	0	0	10	7.93	1.6	1
Ostatní pracovníci	1	1	0	0	0	1	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 pôsobiacich v zahraničí, v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zboroch)

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

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 administratíve, 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	13	51	4	4	12	37	14
Ženy	1	12	0	0	1	6	5

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	4	2.1	4	3.5	7	6.3	12	9.3	11	7.5	3	2.1	2	1.5	5	5.0	22	18.4
Ženy	2	0.5	1	0.2	4	2.5	4	3.5	0	0.0	0	0.0	0	0.0	0	0.0	3	2.2
Spolu	6	2.6	5	3.7	11	8.8	16	12.8	11	7.5	3	2.1	2	1.5	5	5.0	25	20.6

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	53.3	53.6	53.0
Ženy	47.9	46.1	44.4
Spolu	51.8	52.4	51.5

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

Vedenie ústavu sa stretáva s predstaviteľmi oddelení a internými členmi Vedeckej rady na pravidelných mesačných neformálnych stretnutiach (tretia streda v mesiaci), tzv. **kolégiách**. Ich úlohou je informovať o aktuálnych záležitostiach, ktoré sa dejú na úrovni ústavu a oddelení.

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	14	4	121236	142206	29987	29987	6771	3568
2. Projekty APVV	13	10	-	-	315083	277600	-	65533
3. Projekty EŠIF/OP ŠF, Plán obnovy EÚ	7	0	-	-	341354	341354	-	-
4. Projekty SASPRO	2	0	44074	44074	-	-	-	-
5. Projekty IMPULZ	2	0	215714	215714	-	-	-	-
6. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)	3	0	3000	3000	10000	10000	-	-

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	-	4	1
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	2	0	-	-	-	61127	-	-
2. Projekty ERA.NET, ESA, JRP	1	0	25000	25000	-	-	-	-
3. Projekty COST	1	1	-	1500	-	-	1500	-
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	1	1	-	-	-	3781481	-	4603
5. Projekty v rámci medzivládnych dohôd	0	0	-	-	-	-	-	-
6. Projekty Mobility, Mobility Basic, Open Mobility a Mobility Visit	0	0	-	-	-	-	-	-
7. Bilaterálne projekty ostatné	0	0	-	-	-	-	-	-
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	1	2	-	-	22904	22904	17103	-

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)	3	0
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

Boli podané tri projekty CEF EuroQCI v rámci budovania bezpečnej kvantovej komunikačnej infraštruktúry EÚ. Dva projekty budú financované od roku 2026.

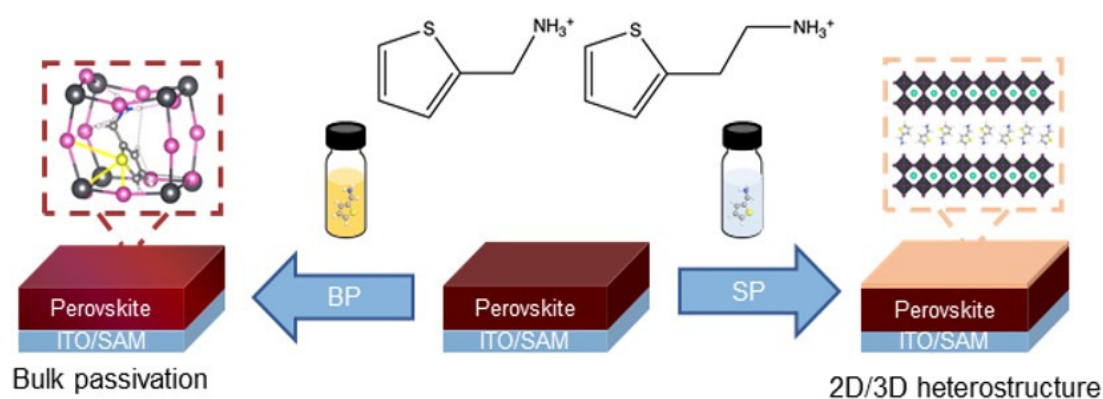
2.3. Výber najvýznamnejších výsledkov vedeckej práce organizácie v roku 2025

2.3.1. Výsledky na báze základného výskumu

Názov: Optimalizácia perovskitových solárnych článkov prostredníctvom kombinovanej chemickej a štrukturálnej pasivácie

Autori: Nad'a Mrkývková a kol. (APVV-21-0297)

Abstrakt: Zamerali sme sa na vývoj a porovnanie rôznych stratégií pasivácie defektov v perovskitových solárnych článkoch s cieľom zvýšiť ich účinnosť a dlhodobú stabilitu. Pre tento účel boli perovskitové vrstvy syntetizované viacerými metódami – či už pomocou bežnej mokrej depozície, alebo menej častou vákouovou depozíciou alebo aj depozíciou pomocou pulzného laseru. Skúmali sme rôzne chemické prístupy, ktoré potláčajú neradiatívnu rekombináciu a zlepšujú transport náboja. Skúmali sme vplyv draselných solí, ktoré efektívne znižujú hustotu defektov bez narušenia kryštálovej štruktúry, čo viedlo k zvýšenej fotoluminiscencii a zvýšeniu napätia naprázno (VOC). Ďalej sme realizovali dopovanie cérom ako zástupcom vzácnych zemín, ktoré zlepšilo kvantový výťažok fotoluminiscencie a zachovalo preferovanú kryštalografickú orientáciu, čím sa potvrdila možnosť cielenej úpravy optoelektronických vlastností perovskitu prostredníctvom kontrolovaného dopovania. Dopĺňujúco sme použili molekulovú pasiváciu pomocou tiénových katiónov, ktoré chemicky „zaceľujú“ defekty a vytvárajú stabilné 2D/3D heteroštruktúry s vyšším VOC a činiteľom plnenia (tzv. fill factor). Nakoniec sme pomocou pulznej laserovej depozície bez rozpúšťadiel pripravili orientované 2D vrstvy typu (PEA)₂PbI₄, ktoré poskytujú robustné rozhrania pre dlhodobú stabilitu. Tieto výsledky spoločne potvrdzujú synergický účinok kombinovanej objemovej a povrchovej pasivácie ako účinnej stratégie pre optimalizáciu perovskitových solárnych článkov.



Obr. Schématické znázornenie dvoch použitých pasivačných stratégií s molekulami na báze tiofénových molekúl TMA⁺ (vľavo) a TEA⁺ (vpravo). BP (bulk passivation) a SP (surface passivation) označujú pasiváciu bulku, tj. objemu perovskitu a pasiváciu povrchu za vytvorenia 2D perovskitu.

1. Vladimir Held, Nada Mrkyvkova, Yuriy Halahovets, Peter Nádaždy, Karol Vegso, Aleš Vlk, Martin Ledinský, Andrei Chumakov, Matthias Schwartzkopf, Frank Schreiber, and Peter Siffalovic: KCl-Mediated Defect Passivation in Vapor-Deposited Perovskites. ACS Appl. Mater. Interfaces 2025, 17, 30, 43877–43884.
DOI: <https://doi.org/10.1021/acsami.5c09426>
2. Junia S. Solomon, Nada Mrkyvkova, Vojtěch Kliner, Tatiana Soto-Montero, Ismael Fernandez-Guillen, Martin Ledinský, Pablo P. Boix, Peter Siffalovic & Monica Morales-Masis: Oriented 2D Ruddlesden-Popper metal halides by pulsed laser deposition. npj 2D Mater Appl 2025, 9, 50.
DOI: <https://doi.org/10.1038/s41699-025-00571-3>
3. Dmytro Vorontsov, Martin Ledinský, Aleš Vlk, Robert Hlaváč, Lucie Landová, Tereza Košutová, Karel Knížek, Anna Fučíková, Nada Mrkyvkova, Peter Siffalovic, and Jan Valenta: Photoluminescence Quantum Yield Enhancement of FAPbBr₃ Thin Films via Ce Doping. J. Phys. Chem. C 2025, 129, 14190–14195.
DOI: <https://doi.org/10.1021/acs.jpcc.5c03090>
4. G. Pica, R. Montecucco, A. Zanetta, A. Oranskaia, F. Faini, L. Pancini, N. Mrkyvkova, P. Siffalovic, P. Dally, V. Pirota, M. Ledinsky, M. De Bastiani, S. De Wolf, F. Doria, U. Schwingenschlögl, G. Grancini: Unraveling Bulk versus Surface Passivation Effects in Highly Efficient p-i-n Perovskite Solar Cells Using Thiophene Based Cations. Solar RRL 2024, 8, 2300681.
DOI: <https://doi.org/10.1002/solr.202300681>
5. V. Held, N. Mrkyvkova, Y. Halahovets, P. Nádaždy, K. Vegso, A. Vlk, M. Ledinský, M. Jergel, S. Bernstorff, J. Keckes, F. Schreiber, and P. Siffalovic: Evolution of Defects, Morphology, and Strain during FAMAPbI₃ Perovskite Vacuum Deposition: Insights from In Situ Photoluminescence and X-ray Scattering. ACS Applied Materials & Interfaces 2024, 16, 35723.
DOI: <https://doi.org/10.1021/acsami.4c04095>

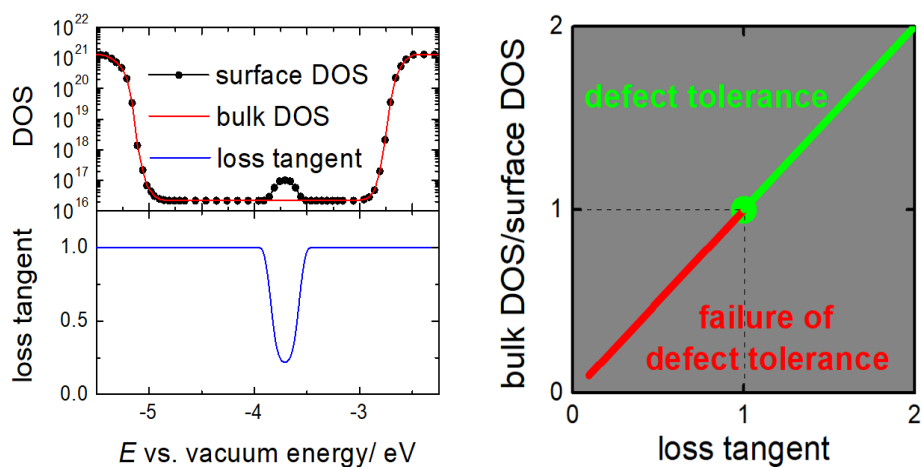
2.3.2. Výsledky aplikačného typu

Názov: Nová metóda na posúdenie vplyvu prítomnosti defektných stavov v aktívnej vrstve na vlastnosti solárneho článku

Autori: Katarína Gmucová, Vojtech Nádaždy (VEGA -2/0165/22, APVV-22-0132)

Abstrakt: V posledných rokoch sa pozornosť materiálových vedcov v oblasti perovskitových solárnych článkov sústredila na koncept „tolerancie defektov“, ktorý označuje schopnosť materiálu udržať vysokú účinnosť aj napriek prítomnosti štruktúrnych alebo chemických defektov. Pre funkčnosť a využiteľnosť solárnych článkov v praxi je preto nevyhnutné pochopiť vplyv defektných stavov v zakázanom páse polovodiča na transport náboja, na čo sme úspešne využili nami zavedenú impedančnú spektroskopiu s energetickým rozlíšením (ER-EIS). S cieľom lepšieho pochopenia tohto vplyvu sme porovnali povrchovú a objemovú hustotu defektných stavov s tangensom strát na frekvencii, kde redoxné reakcie určujú reálnu časť impedancie. Toto porovnanie ukázalo, že heterogenita elektrónovej štruktúry naprieč tenkou vrstvou, ktorá sa prejavuje ako vyššia povrchová hustota stavov, vedie k zlyhaniu „tolerancie defektov“. Táto nami navrhnutá metóda, ktorá je rýchla a efektívna, má potenciál pri hľadaní nových materiálov s „toleranciou defektov“ a účinných technologických postupov na premenu slnečnej energie na elektrinu v praxi.

Článok v časopise Small Methods, venovaný tejto problematike, bol editormi zaradený aj do špeciálnej virtuálnej kolekcie „Celebrating Excellence in the Advanced Materials Family: Women in Materials Science“, obsahujúcej vybrané články publikované vo viacerých časopisoch z portfólia rodín časopisov Advanced Materials a Small.



Obr. Vzťah medzi objemovou a povrchovou hustotou stavov v tenkej vrstve polovodiča a tangensom stratového uhla: vľavo zobrazenie na energetickej škále, vpravo grafická reprezentácia poskytujúca informáciu o tom, či stavy v zakázanom páse spĺňajú kritérium pre materiály tolerantné voči defektom.

1. K. Gmucová, V. Nádaždy, “A Relationship Between Semiconducting Thin Film's Electronic Structure Heterogeneity and Defect Tolerance,” Small Methods 2025, 9, 2401231. (IF 9.1)
<https://doi.org/10.1002/smtd.202401231>

2.3.3. Výsledky na báze medzinárodnej spolupráce

Názov: The future of secure communications: device independence in quantum key distribution

Autor: Seyed Arash Ghoreishi a kol. (R4 projekt QENTAPP č. 09103-03-V04-00777)

Partneri projektu: University of Gdansk (Polsko), Masaryk University Brno (Česko), ETH Zurich (Switzerland), University of Bari (Italy), Universidad de Concepción (Chille)

Abstrakt: In the ever-evolving landscape of quantum cryptography, Device-independent Quantum Key Distribution (DI-QKD) stands out for its unique approach to ensuring security based not on the trustworthiness of the devices but on nonlocal correlations. Beginning with a contextual understanding of modern cryptographic security and the limitations of standard quantum key distribution methods, this review explores the pivotal role of nonclassicality and the challenges posed by various experimental loopholes for DI-QKD. Various protocols, security against individual, collective and coherent attacks, and the concept of self-testing are also examined, as well as the entropy accumulation theorem, and additional mathematical methods in formulating advanced security proofs. In addition, the burgeoning field of semi-device-independent models (measurement DI-QKD, Receiver DI-QKD, and One-sided DI-QKD) is also analyzed. The practical aspects are discussed through a detailed overview of experimental progress and the open challenges towards the commercial deployment in the future of secure communications.

1. Seyed Arash Ghoreishi, Giovanni Scala, Renato Renner, Letícia Lira Tacca, Jan Bouda, Stephen Patrick Walborn, Marcin Pawłowski: The future of secure communications: Device independence in quantum key distribution, Physics Reports, Volume 1149, 16 December 2025, Pages 1-97
<https://doi.org/10.1016/j.physrep.2025.09.006>

Ďalšie prihlásené výsledky:

Názov: Universal validity of the second law of information thermodynamics

Autori: Mohammad Hamed Mohammady a kol. (CVKI)

Publikácia: Kinagawa, S., Mohammady, M.H., Sakai, K., Kato, K., Buscemi, F., Universal validity of the second law of information thermodynamics, Npj Quantum Information, 11(1), 18 2025.

Názov: Ratchet efekt v kanálikoch s pohyblivými pružnými stenami

Autor: Pavol Kalinay (OKFS)

Publikácie: 1. P. Kalinay: Effective dynamics of a particle diffusing in time-dependent confinement, Phys. Rev. E 111, 014117 (2025), 2. P. Kalinay: Rocking ratchet revisited via the Stratonovich formula, Phys. Rev. E 112, 064123 (2025)

Názov: Optimalizácia kvantových algoritmov

Autor: Martin Plesch a kol. (OKFS)

Publikácie: 1. Meta-optimization of resources on quantum computers, I.A. Mohammad, M Pivoluska, M Plesch, Scientific Reports 14 (1), 10312 (2024), 2. Harmonic oscillator based particle swarm optimization, Y Chernyak, IA Mohammad, N Masnicak, M Pivoluska, M Plesch, 3. PloS one 20 (6), e0326173 (2025), 4. HOPSO: A Robust Classical Optimizer for VQE, I A Mohammad, Y Chernyak, M Plesch, arXiv: 2508.13651 (2025), 5. Minimum measurements quantum protocol for band structure calculation, M Krejčí, L Krejčí, IA Mohammad, M Plesch, M Friák,

Názov: Aká je reálna hodnota pomeru $R = \phi \rightarrow K^+K^- / K^0\bar{K}^0$?

Autori: Andrej Liptaj a kol. (OTF)

Publikácia: DUBNIČKA, Stanislav, DUBNIČKOVÁ, A. Z., HOLKA, Lukáš, LIPTAJ, Andrej. What is the real value of the ratio $R = \phi \rightarrow K^+K^- / K^0\bar{K}^0$? In Physical Review D, 2024, vol. 110 no. 5, art. no. 054019.

Názov: Predikcia nových štruktúr pentoxidov/oxidov d-prechodných kovov obohatených kyslíkom a ich fyzikálno-chemická identita z prvých princípov.

Autori: Kamil Tokár a kol. (OTF)

Publikácie: 1. Bujdák, R. - Derzsi, M. - Tokár, K., Identity of Oxygen-Rich Nickel Oxides as Oxosuperoxides and Oxoperoxides and Their Heterostructures. In Inorganic Chemistry, 2025, vol. 64, no. 30, p. 15402-15412, 2. Fabušová, D. - Derzsi, M. - Tokár, K., Metal-metal interactions in an open d-shell system with cuprite structure. In Chemical Communication, 2025, vol. 61, no. 77, p. 14939-14942.

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)	0 / 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)	103 / 5
10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus (ADMA, ADMB, ADNA, ADNB)	21 / 0
11. Vedecké práce v ostatných domácich časopisoch (ADFA, ADFB)	0 / 0
12. Vedecké práce v ostatných zahraničných časopisoch (ADEA, ADEB)	8 / 0
13. Vedecké práce v domácich recenzovaných zborníkoch (AEDA)	0 / 0
14. Vedecké práce v zahraničných recenzovaných zborníkoch (AECA)	2 / 0
15. Publikované príspevky na domácich vedeckých konferenciách (AFB, AFD)	10 / 0
16. Publikované príspevky na zahraničných vedeckých konferenciách (AFA, AFC)	0 / 0
17. Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS	0
18. Ostatné vydané periodiká	0
19. Zostavovateľské práce knižného charakteru (FAI)	3 / 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>	48 / 0	39 / 5	20 / 0	1 / 0	108 / 5
Podľa SJR z r. 2024 (zdroj Scimago) <i>Počet článkov / doplnky</i>	59 / 3	43 / 2	7 / 0	15 / 0	124 / 5

Tabuľka 2g Ohlasy

OHLASY	Počet v r. 2024/ doplnky z r. 2023
Citácie vo WOS (1.1, 2.1)	3508 / 6
Citácie v SCOPUS (1.2, 2.2)	396 / 0
Citácie v iných citačných indexoch a databázach (9, 10, 3.2, 4.2)	0 / 0
Citácie v publikáciách neregistrovaných v citačných indexoch (3, 4, 3.1, 4.1)	2 / 0
Recenzie na práce autorov z organizácie (5, 6, 7, 8)	0 / 0

2.5. Aktívna účasť na vedeckých podujatiach

Tabuľka 2h Vedecké podujatia

Prednášky a vývesky na medzinárodných vedeckých podujatiach	80
Prednášky a vývesky na národných vedeckých podujatiach	15

2.6. Vyžiadané prednášky

Ak boli príspevky publikované, sú súčasťou prílohy A-3, kategória (AFC, AFD, AFE, AFF, AFG, AFH)

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

Mgr. Andrej Gendiar, PhD. (S)

- 15. — 18. 12. 2025, The Tensor Network States: Algorithms and Applications (TNSAA), National Cheng Kung University, Taiwan, „Tensor-Network Study on Infinite Hyperbolic Dodecahedral Lattice“

prof. Ing. Štefan Luby, DrSc. (S)

- 14. — 19. 03. 2025, 13th Ann. Conf. of Europe's Sciences and Arts Leaders and Scholars „It's About People“, Maribor, Slovenia, „Nanomedicine – an overview of recent progress in the field“
- 15. — 18. 06. 2025, ADEPT 2025, Podbanské, Slovakia, „Electronic noses — physics, technology and applications“

RNDr. Nad'a Mrkývková, PhD. (S)

- 22. — 27. 06. 2025, ISMANAM 2025, Bratislava, „Perovskite Thin Film Growth: Structural and Optoelectronic“
- 18. — 22. 08. 2025, APS, Viedeň, Rakúsko, „Perovskites for photovoltaics: growth and stability characterization“

RNDr. Anton Repko, PhD. (S)

- 12. — 18. 10. 2025, ISTROS, Častá-Papiernička, „Structure of low-lying excited states in nuclei by Skyrme QRPA“

2.6.2. Vyžiadané prednášky na národných vedeckých podujatiach

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

Mgr. Adriana Hvizdošová Annušová, PhD. (S)

- 06. 06. 2025, Institut Curie Paris, Paríž, Francúzsko, „MoOx and Beyond: From Exfoliation to Precision Cancer Theranostics“
- 07. 10. 2025, Department of Biophysical Chemistry, Faculty of Chemistry, University of Vienna, Viedeň, Rakúsko, „MoOx and Beyond: From Exfoliation to Precision Cancer Theranostics“

RNDr. Ľubomír Martinovič, CSc. (S)

- Institute of Modern Physics, Chinese Academy of Sciences, Huizhou, Čína
12. 09 2025, „Introduction to light-front zero modes“
24. 10. 2025 „Overview of light-front zero modes and zero mode fields“

RNDr. Naďa Mrkývková, PhD. (S)

- 22. 05. 2025, Katedra fyziky kondenzovaných látok, MFF UK Praha, Česko, „Halide Perovskites for Photovoltaics“

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

2.7.1. Vynálezy, na ktoré bol v roku 2025 udelený patent

a) na Slovensku

b) v zahraničí

2.7.2. Vynálezy prihlásené v roku 2025

a) na Slovensku

b) v iných krajinách ako prioritná prihláška

c) PCT

d) EP

e) v iných krajinách v rámci tzv. národnej fázy po PCT, resp. po validácii EP

2.7.3. Úžitkové vzory na Slovensku

a) prihlásené v roku 2025

b) udelené v roku 2025

2.7.4. Realizované vynálezy

a) predané patenty resp. prihlášky vynálezov (v prípade úplnej zmeny majiteľa patentu)

b) predané licencie (v prípade že majiteľom ostáva organizácia SAV)

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
Bartoš Erik	VEGA	1
Boháč Vlastimil	VEGA	2
Herzáň Andrej	Natural Sciences and Engineering Research Council of Canada / Discovery Grant	1
Jergel Matej	VEGA	1
Nádaždy Vojtech	VEGA	2

2.9. Účasť na spracovaní hesiel do encyklopédie Beliana

Počet autorov hesiel: 1

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
Bartoš Erik	0	0	1	0	0	0	0
Boháč Vlastimil	0	0	6	0	0	0	1
Butvinová Beata	0	0	1	0	0	0	1
Gendiar Andrej	0	0	5	0	0	0	0
Genzor Jozef	0	0	1	0	0	0	0
Gmucová Katarína	0	0	4	0	0	0	0
Herzáň Andrej	0	0	1	0	0	0	0
Hvizdošová Annušová Adriana	0	0	5	0	0	0	0
Ivančo Ján	0	0	1	0	0	0	0
Jergel Matej	0	0	7	0	0	0	0
Kalinay Pavol	0	0	1	0	0	0	0
Luby Štefan	0	0	1	0	0	0	0
Majková Eva	0	0	6	0	0	0	0
Mohammad Ijaz Ahamed	0	0	1	0	0	0	0

Plesch Martin	0	0	10	0	0	0	0
Repko Anton	0	0	1	0	0	0	0
Švec Peter	0	0	2	0	0	0	0
Ziman Mário	0	0	6	0	0	0	0
Spolu	0	0	60	0	0	0	2

2.11. Iné informácie k vedecko-výskumnej činnosti.

Na ústave beží niekoľko vlastných projektových schém. Aktivitu úspešných štipendistov ako aj prehľad ich dosiahnutých výsledkov sú zverejňované na webstránke organizácie v časti „Veda a výskum“.

Bežiacie programy:

IP SAS mobility program: Cieľom programu je podpora strednodobých pobytov zamestnancov alebo hostí FÚ SAV, v. v. i. v dĺžke trvania 1 — 4 mesiacov.

IP SAS interships program: Cieľom programu je podpora krátkodobých študentských stáží na FÚ SAV, v. v. i. v celkovej dĺžke minimálne 40 hodín rozvrhnutých ľubovoľným spôsobom počas maximálne 6 mesiacov v danom kalendárnom roku.

IP SAS fellow štipendium: Štipendium je určené na podporu vytvorenia dočasných výskumných pozícií pre excelentných výskumníkov vo fáze kariéry R2 alebo R3.

Zoznam úspešných stážistov IP SAS interships:

- Peter Ganz (1M)
- Tatiana Grečnárová (4M)
- Vladyslava Halvoronská (1M)
- Gabriela Kotúčová (8M)
- Filip Pomajbo (1M)
- Vadym Shvydkyi (8M)

Zoznam úspešných stážistov IP SAS fellow:

- Sami Ullah (nástup 2025)
- Matúš Balogh (nástup 2026)

Informácie o aktivitách stážistov IP SAS fellow sú dopĺňané na stránke <https://fu.sav.sk/veda-a-vyskum/ip-sas-fellow/>

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

3KK 2025 – Trojkráľová konferencia 2025, Brno, Česko, 40 účastníkov, 03.01.-03.01.2025
Tradičné neformálne stretnutie českých a slovenských mladých fyzikov.

ISMANAM 2025 – 29th International Symposium on Metastable, Amorphous and Nanostructured Materials, Bratislava, Slovensko, 140 účastníkov, 22.06.-27.06.2025

APCOM 2025 – Applied Physics of Condensed Matter, Štrbské Pleso, Slovensko, 25.06.-27.06.2025

CEQIP 2025 – Central European Quantum Information Processing, Smolenice, Slovensko, 30.06.-03.07.2025

HOAQS 2025 – Higher Order at Quantum Structures, Vysoké Tatry, Slovensko, 25 účastníkov, 15.09.-19.09.2025

ISTROS 2025 – Isospin, STructure, Reactions and energy Of Symmetry, Častá-Papiernička, Slovensko, 50 účastníkov, 12.10.-18.10.2025

Isospin, STructure, Reactions and energy Of Symmetry – experimental and theoretical aspects of physics of exotic nuclei and states of nuclear matter.

SURFINT-SREN IX – Progress in Applied Surface, Interface and Thin Film Science, Smolenice, Slovensko, 18.11.-20.11.2025

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)

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
Báčová Silvia	0	0	1
Brunner Róbert	0	0	1
Gejdoš Janotová Irena	0	0	1
Herzáň Andrej	0	0	1
Hovorková Radka	0	1	0
Janičkovič Dušan	0	0	1
Luby Štefan	1	0	0
Maťko Igor	0	1	0

Pinčík Emil	0	0	1
Plevachuk Yuriy	1	0	0
Sedlák Matúš	0	0	1
Sedlák Michal	0	0	1
Švec Peter	1	0	2
Švec Jr. Peter	0	1	0
Ziman Mário	0	0	2
Spolu	3	3	12

3.2. Členstvo a funkcie v medzinárodných orgánoch

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

Prof. RNDr. Vladimír Bužek, DrSc.

American Physical Society (funkcia: člen)
Institute of Physics (funkcia: fellow)
Optical Society of America (funkcia: fellow)
Rakúska akadémia vied (funkcia: zahraničný člen)

Mgr. Peter Filip, PhD.

European Physical Society (funkcia: individuálny člen)

Ing. Ján Ivančo, DrSc.

American Chemical Society (funkcia: člen)
Polish Synchrotron Radiation Society (funkcia: člen korespondent)

Ing. Matej Jergel, DrSc.

Česko-Slovenská kryštalografická spoločnosť (funkcia: člen, 1996-2002 člen Rady)
European Academy of Sciences and Arts (funkcia: člen)
Národný komitét IUPAP (funkcia: člen)

Mgr. Ivan Klbik

Society for Cryobiology (funkcia: individuálny člen)

prof. Ing. Štefan Luby, DrSc.

European Academy of Sciences and Arts (funkcia: Honorary Senator)
Európska akadémia vied a umení (funkcia: vedúci slovenskej delegácie)
Identifikačný kód Slovenska (funkcia: gestor za EASA)
International Union of Vacuum Science, Technology and Applications, IUVESTA, Divízia nanometrových štruktúr (funkcia: národný reprezentant)
Medzinárodná nadácia S.T.E.P.S. Grécko - USA (funkcia: člen rady)

RNDr. Eva Majková, DrSc.

Academia Europea Sietiarum et Artium (funkcia: socius ordinarius)

International Union of Vacuum Science, Technology and Applications, IUVSTA, Divízia tenkých vrstiev (funkcia: národný reprezentant)
L'ORÉAL-UNESCO Pre ženy vo vede (funkcia: predsedníčka poroty)
Steering Committee v medzinárodnom M-ERANET programe (funkcia: členka)

RNDr. Igor Mat'ko, CSc.

Československá mikroskopická spoločnosť (funkcia: člen)

RNDr. Nad'a Mrk'vková, PhD.

European Synchrotron and Free Electron Laser User Organisation (ESUO) (funkcia: národný delegát)

RNDr. Emil Pinčík, CSc.

International Committee of Analysis in Steel and Iron Industry - ICASI (funkcia: člen medzinárodného výboru)

doc. RNDr. Martin Plesch, PhD.

Medzinárodná federácia fyzikálnych súťaží (funkcia: prezident)
Medzinárodný turnaj mladých fyzikov (funkcia: prezident)
Medzinárodný výbor IJSO (funkcia: člen)

Ing. Mgr. Peter Staňo, PhD.

Japanese Physical Society (funkcia: člen)

prof. Ing. Ivan Štich, DrSc.

American Physical Society (funkcia: člen)
European Academy of Sciences and Arts (funkcia: člen)

Ing. Vladimír Štofanič, PhD.

IEEE-UFFC (funkcia: člen)
URSI (funkcia: člen)

Ing. Peter Švec, DrSc.

Československá mikroskopická spoločnosť (funkcia: člen)
Intl. Advisory Committee on Rapid Quenching (funkcia: member)
IUPAP (funkcia: vicechair, Commission C10 on Solid State Physics)

Ing. Peter Švec Jr., PhD.

Československá mikroskopická spoločnosť (funkcia: člen výboru)
European Microscopy Society (funkcia: člen)

Mgr. Martin Venhart, DrSc.

Subatomic physics evaluation section NSERC (Canada) (funkcia: člen)
The Nuclear Physics European Collaboration Committee (funkcia: člen)

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
Herzáň Andrej	Národný štipendijný program SR	26
Sedlák Matúš	NSERC Discovery Grant - EG19	1

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

Medzinárodná vedecká spolupráca je jedným z hlavných pilierov vedeckej práce na ústave, medzi najvýznamnejšie prínosy mobility patria všetky ocenené a prihlásené výsledky našich kolektívov popísané v časti 2.3, ktorá sa venuje najvýznamnejším získaným výsledkom.

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

4.1. Výsledky výskumu organizácie aplikované v technologickej a všeobecnej spoločenskej praxi

4.2. Kontraktový – zmluvný výskum (vrátane zahraničných kontraktov)

Názov/účel kontraktového výskumu: Termofyzikálna analýza betónových zmesí

Zadávatel' výskumného kontraktu: Považská cementáreň, a.s.,

Začiatok spolupráce: 2022

Ukončenie spolupráce: trvá

Finančný prínos pre organizáciu (€): 0

4.3. Iné formy aplikácie výsledkov výskumu a využitia odbornosti

Analýza štruktúry vzoriek hliníkových zliatin pomocou rtg. difrakčnej analýzy a elektrónovej mikroskopie pre f. c2i s. r. o. (www.c2i.com) kolektívom OFK pod vedením P. Šveca.

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	10	8	2	2	9	5	3	0	3	0	0	0
Denná z iných zdrojov	4	1	0	0	2	2	0	1	1	0	0	0
Externá	0	0	0	0	0	0	0	0	0	0	0	0
Spolu	14	9	2	2	11	7	3	1	4	0	0	0
Z toho zahraničných	12	6	1	2	8	5	1	1	2	0	0	0
Súhrn	23		4		18		4		4		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. Lukáš Holka	interné štúdium hradené z prostriedkov SAV	9 / 2021	9 / 2025	1160 fyzika	Mgr. Erik Bartoš PhD., Fyzikálny ústav SAV, v. v. i.	Fakulta matematiky, fyziky a informatiky UK
Mgr. Ijaz Ahamed Mohammad	interné štúdium hradené z prostriedkov SAV	9 / 2021	6 / 2025	1160 fyzika	doc. RNDr. Martin Plesch PhD., Fyzikálny ústav SAV, v. v. i.	Fakulta matematiky, fyziky a informatiky UK
Mgr. Shima Sousani	interné štúdium hradené z iných zdrojov	9 / 2020	8 / 2025	1160 fyzika	RNDr. Eva Majková DrSc., Fyzikálny ústav SAV, v. v. i.	Fakulta matematiky, fyziky a informatiky UK
Mgr. Daniel Truchan	interné štúdium hradené z prostriedkov SAV	9 / 2021	11 / 2025	1160 fyzika	Dr. rer. nat. Peter Šiffalovič DrSc., Fyzikálny 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	Mesiac, rok nástupu na DŠ	Mesiac, 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
2	2	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	Zahraniční doktorandi štátne občianstvo/počet
1	0	0	IND/12, PAK/2, BRA/1, ESP/1, HUN/1, CHN/1, IRN/1, MEX/1, RUS/1, USA/1

Zahraniční 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	Fyzika kondenzovaných látok a akustika	Fakulta matematiky, fyziky a informatiky UK
fyzika	1160	Fyzikálne inžinierstvo	Fakulta elektrotechniky a informatiky STU
fyzika	1160	Jadrová a subjadrová fyzika	Fakulta matematiky, fyziky a informatiky UK
fyzika	1160	Kvantová elektronika, optika a optická spektroskopia	Fakulta matematiky, fyziky a informatiky UK
fyzika	1160	Teoretická fyzika a matematická fyzika	Fakulta matematiky, fyziky a informatiky UK
chémia	1420	Jadrová chémia a rádioekológia	Prírodovedecká fakulta 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
Mgr. Erik Bartoš, PhD. (fyzika)	Prof. RNDr. Vladimír Bužek, DrSc. (Fakulta matematiky, fyziky a informatiky UK)	
Ing. Vlastimil Boháč, CSc. (fyzikálne inžinierstvo)	prof. Ing. Ivan Štich, DrSc. (Fakulta prírodných vied UCM)	
Prof. RNDr. Vladimír Bužek,	Mgr. Martin Venhart, DrSc.	

DrSc. (všeobecná fyzika a matematická fyzika)	(Trnavská univerzita v Trnave)	
RNDr. Stanislav Dubnička, DrSc. (všeobecná fyzika a matematická fyzika)		
RNDr. Stanislav Dubnička, DrSc. (jadrová a subjadrová fyzika)		
Mgr. Andrej Gendiar, PhD. (všeobecná fyzika a matematická fyzika)		
Mgr. Andrej Gendiar, PhD. (všeobecná fyzika a matematická fyzika)		
Ing. Štefan Gmuca, CSc. (jadrová a subjadrová fyzika)		
Ing. Matej Jergel, DrSc. (fyzika kondenzovaných látok a akustika)		
Ing. Matej Jergel, DrSc. (kvantová elektronika a optika)		
Ing. Matej Jergel, DrSc. (fyzikálne inžinierstvo)		
RNDr. Pavol Kalinay, CSc. (všeobecná fyzika a matematická fyzika)		
Ing. Ján Kliman, DrSc. (fyzika)		
Ing. Ján Kliman, DrSc. (jadrová a subjadrová fyzika)		
Ing. Ján Kliman, DrSc. (jadrová energetika)		
Ing. Ján Kliman, DrSc. (fyzikálne inžinierstvo)		
Ing. Ján Kliman, DrSc. (odbor v zahraničí)		
Dr. rer. nat. Ing. Andrej Liptaj, PhD. (fyzika)		
RNDr. Eva Majková, DrSc. (kvantová elektronika a optika)		
RNDr. Eva Majková, DrSc. (fyzikálne inžinierstvo)		
doc. RNDr. Martin Plesch, PhD. (teória vyučovania fyziky)		
RNDr. Ondrej Šauša, CSc. (jadrová chémia)		
Dr. rer. nat. Peter Šiffalovič, DrSc. (kvantová elektronika a optika)		
Ing. Peter Švec, DrSc. (všeobecná fyzika a		

matematická fyzika)		
Ing. Peter Švec, DrSc. (fyzika kondenzovaných látok a akustika)		
Ing. Peter Švec, DrSc. (elektrotechnológie a materiály)		
Ing. Peter Švec, DrSc. (materiály)		
Ing. Peter Švec, DrSc. (fyzikálne inžinierstvo)		

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	6	0	0	0
Celkový počet hodín v r. 2025	211	0	0	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	3
2.	Počet vedených alebo konzultovaných diplomových a bakalárskych prác	9
3.	Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)	2
4.	Počet školených doktorandov (aj pre iné inštitúcie)	2
5.	Počet oponovaných dizertačných a habilitačných prác	5
6.	Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce	4
7.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác	2
8.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác	7
9.	Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti v inauguračnom alebo habilitačnom konaní na vysokých školách	1

5.9. Iné dôležité informácie k pedagogickej činnosti

Počas zimného a letného semestra prebieha pre doktorandov **študentský PhD seminár**, so zameraním na precvičovanie prezentačných a soft-skills zručností študentov.

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: Dokuz Eylul University Izmir, Turkey

Oblasť spolupráce: Termofyzikálne vlastnosti uhlíkových nanorúrok vyplňajúcich polymérne kompozity

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2016

Zhodnotenie: Meranie termofyzikálnych vlastností polymérnych kompozitov na báze HDPE a s vláknami alebo časticami uhlíkových nano štruktúr.

Názov univerzity/vysokej školy a fakulty: Drevárska fakulta TUZVO

Oblasť spolupráce: Progresívne prírodné izolačné materiály pre drevostavby - laboratórny a in-situ výskum

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2025

Zhodnotenie: Podali sme ďalší spoločný grant VEGA 1/0179/25 - Progresívne prírodné izolačné materiály pre drevostavby - laboratórny a in-situ výskum vlastností bol podaný na obdobie 2025-2028. V rámci spolupráce boli doteraz pomocou prechodových metód vyšetrené vlastnosti objemových drevín a drevených kompozitov vo forme OSBD dosiek. Kompozitné materiály boli vyrobené z drevenej štiepky drevín pomaranču, duba, a ich zmesi vo verzii vysokej a strednej hustoty. Ďalšie vzorky vo výskume boli vyrobené z materiálov masívneho dreva: céder, topol' a jelša. Termofyzikálne vlastnosti boli vyšetrované pomocou impulznej a skokovej prechodovej metódy. Na vyhodnotenie boli použité modely zohľadňujúce okrajové rušivé efekty odvodu tepla z povrchu vzorky s presnou geometriou v tvare kvádra a doskový model s vplyvom efektu kontaktného tepelného odporu a tepelnej kapacity zdroja tepelného impulzu.

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

Oblasť spolupráce: Spolupráca laboratórií elektrostatických urýchľovačov

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2017

Zhodnotenie: V rámci spolupráce s MFF UK Bratislava a MTF STU Trnava (UVP CAMBO) sa uskutočnili prvé diskusie o spolupráci pri využití elektrostatických urýchľovačov na Slovensku. Cieľom tejto spolupráce je vymedziť špecifické úlohy riešené na jednotlivých pracoviskách, dohodnúť spoločné využitie dostupných zdrojov a zariadení a spolupráca pri riešení možných technických problémov.

Názov univerzity/vysokej školy a fakulty: Montanuniversitaet Leoben, Rakúsko

Oblasť spolupráce: experimentálne

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2011

Zhodnotenie: V rámci spolupráce sú vykonávané mikroštruktúrne analýzy vzoriek širšej triedy materiálov pomocou sofistikovaných metód elektrónovej mikroskopie (Cs korigovaná HRTEM a HRSTEM spojená s chemickou analýzou).

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UK

Oblasť spolupráce: Katedra inžinierskej geológie

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2011

Zhodnotenie: Monitorovanie teplotno-vlhkostného režimu v tufovom masíve múzea sakálných obydľí v Brhlovciach.

Názov univerzity/vysokej školy a fakulty: Slovenská technická univerzita v Bratislave

Oblasť spolupráce: Experimentálne a teoretické

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2010

Zhodnotenie: Spolupráca s Katedrou fyziky na FEI a Katedrou stavebnej fyziky na SF je v oblasti merania termofyzikálnych parametrov stavebných materiálov. Odborným zameraním sa kolektívy navzájom dopĺňajú a tým zabezpečujú požadovanú úroveň spolupráce.

Názov univerzity/vysokej školy a fakulty: Slovenská technická univerzita v Bratislave

Oblasť spolupráce: Ústav jadrového a fyzikálneho inžinierstva

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2011

Zhodnotenie: spolupráca pri odvodzovaní a testovaní modelov pre prechodové metódy na meranie termofyzikálnych vlastností látok

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

Názov organizácie: Fyzikálny ústav SAV, v. v. i.

Oblasť spolupráce: Progresívne prírodné izolačné materiály pre drevostavby - laboratórny a in-situ výskum

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2025

Zhodnotenie: Podali sme ďalší spoločný grant VEGA 1/0179/25 - Progresívne prírodné izolačné materiály pre drevostavby - laboratórny a in-situ výskum vlastností bol podaný na obdobie 2025-2028. V rámci spolupráce boli doteraz pomocou prechodových metód vyšetrené vlastnosti objemových drevín a drevených kompozitov vo forme OSBD dosiek. Kompozitné materiály boli vyrobené z drevenej štiepky drevín pomaranču, duba, a ich zmesi vo verzii vysokej a strednej hustoty. Ďalšie vzorky vo výskume boli vyrobené z materiálov masívneho dreva: céder, topoľ a jelša. Termofyzikálne vlastnosti boli vyšetrované pomocou impulznej a skokovej prechodovej metódy. Na vyhodnotenie boli použité modely zohľadňujúce okrajové rušivé efekty odvodu tepla z povrchu vzorky s presnou geometriou v tvare kvádra a doskový model s vplyvom efektu kontaktného tepelného odporu a tepelnej kapacity zdroja tepelného impulzu.

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

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: Monitorovanie teplotno- vlhkostného režimu veže katedrále sv. Martina v Bratislave

Agentúra:

číslo projektu:

Spolupracujúce inštitúcie: Arcibiskupský úrad, Bratislava

Koordinátor projektu:

Začiatok spolupráce: 2011

Zhodnotenie: Pripravujú sa spoločné projekty s Pamiatkovým úradom ktoré zabezpečia finančný efekt pre FÚ a zároveň umožnia nadviazať užšie kontakty s organizáciami zaoberajúcimi sa ochranou pamiatok a majiteľmi pamiatkových objektov. (kontakt FÚ: J. Hudec)

Názov projektu: Grant Nadácie ESET

Agentúra: ESET, spol. s r.o.

číslo projektu:

Spolupracujúce inštitúcie: ESET, spol. s r.o.

Koordinátor projektu: Martin Venhart, FÚ SAV, v. v. i.

Začiatok spolupráce: 2022

Zhodnotenie: Nadácia ESET sa rozhodla podporiť výskum skupiny M. Venharta v oblasti izotopov zlata s nepárnym hmotnostným číslom. Urobila tak na základe dobrého hodnotenia návrhu ERC grantu. Cieľom podpory je vypracovanie nového návrhu ERC Advanced grantu. Podpora základného výskumu súkromnou spoločnosťou je v slovenských podmienkach pomerne výnimočný počin.

Názov projektu: Laboratórne merania termofyzikálnych vlastností hornín

Agentúra:

číslo projektu:

Spolupracujúce inštitúcie: Geologische Bundesanstalt Wien v spolupráci so Štátnym geologickým ústavom Dionýza Štúra

Koordinátor projektu:

Začiatok spolupráce: 2017

Zhodnotenie: Merania v rámci zákazky. Projekt má priniesť poznatky pre budovanie obnoviteľných zdrojov energie v zemskom podloží spôsobom plytkých geotermálnych vrtov. Štatisticky budú zmapované oblasti v strednej Európe.

Názov projektu: Monitorovanie teplotno-vlhkostného režimu pilierov kostola sv. Jakuba v Levoči

Agentúra:

číslo projektu:

Spolupracujúce inštitúcie: Katedra inžinierskej geológie, Univerzita Komenského, Bratislava

Koordinátor projektu:

Začiatok spolupráce: 2012

Zhodnotenie:

Názov projektu: Monitorovanie tuhnutia betónových zmesí

Agentúra:

číslo projektu:

Spolupracujúce inštitúcie: Technický a skúšobný ústav stavebný, n.o. Bratislava

Koordinátor projektu:

Začiatok spolupráce: 2010

Zhodnotenie: Pripravujú sa spoločné projekty ktoré zabezpečia finančný efekt pre FÚ a zároveň umožnia nadviazať užšie kontakty so stavebnými organizáciami. (kontakt FÚ: J. Hudec)

Názov projektu: Laboratórne merania termofyzikálnych vlastností hliníkovej peny.

Agentúra:

číslo projektu:

Spolupracujúce inštitúcie: Ústav materiálov a mechaniky strojov, SAV

Koordinátor projektu:

Začiatok spolupráce: 2017

Zhodnotenie: Podaný APVV projekt. Merania boli vykonané za účelom predbežne zhodnotiť prínos termofyzikálnych meraní pre spôsob aplikácie hliníkovej peny vyplnenej PCM pre možnosti uskladnenia tepelnej energie.

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

6.4. Iné typy spoločných aktivít s inštitúciami mimo SAV

Fyzikálny ústav SAV, v. v. i. sa spolupodieľa na zavádzaní kvantovej infraštruktúry na Slovensku ako partner hlavného koordinátora, ktorým je Národné centrum pre kvantové technológie (QUTE.sk), ktoré v novembri 2021 založili MIRRI SR a Ministerstvo školstva, vedy, výskumu a športu SR. Kvantová komunikačná sieť prepojí dvanásť slovenských akademických inštitúcií od Bratislavy po Košice a zároveň sa vytvoria predpoklady aj na prepojenie s okolitými krajinami a na kvantový prenos šifrovacích kľúčov pomocou satelitov.

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	24	tlač	2	TV	0
rozhlas	0	internet	3	exkurzie	0
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	0
iné	5				

7.2. Vedecko-organizačná činnosť

Tabuľka 7b Vedecko-organizačná činnosť

Názov podujatia	Domáca/ medzinárodná	Miesto	Dátum konania	Počet účastníkov
3KK 2025 – Trojkráľová konferencia 2025	medzinárodná	Brno, Česko	3.1.-3.1.2025	40
ISMANAM 2025 – 29th International Symposium on Metastable, Amorphous and Nanostructured Materials	medzinárodná	Bratislava, Slovensko	22.6.-27.6.2025	140
APCOM 2025 – Applied Physics of Condensed Matter	medzinárodná	Štrbské Pleso, Slovensko	25.6.-27.6.2025	150
CEQIP 2025 – Central European Quantum Information Processing	medzinárodná	Smolenice, Slovensko	30.6.-3.7.2025	60
HOAQS 2025 – Higher Order at Quantum Structures	medzinárodná	Vysoké Tatry, Slovensko	15.9.-19.9.2025	25
ISTROS 2025 – Isospin, Structure, Reactions and energy Of Symmetry	medzinárodná	Častá-Papiernička, Slovensko	12.10.-18.10.2025	50
SURFINT-SREN IX – Progress in Applied Surface, Interface and Thin Film Science	medzinárodná	Smolenice, Slovensko	18.11.-20.11.2025	60

7.3. Účasť na výstavách

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
Spolu			

7.5. Členstvo v redakčných radách časopisov

Ing. Vlastimil Boháč, CSc.

International Journal of Engineering and Allied Sciences (IJEAS) (funkcia: Editorial Board Member)

Prof. RNDr. Vladimír Bužek, DrSc.

European Physical Journal D (funkcia: external advisor)
Journal of Modern Optics (funkcia: člen redakčnej rady)

RNDr. Stanislav Dubnička, DrSc.

MEDICUS (funkcia: člen red. rady)

prof. Ing. Štefan Luby, DrSc.

Contemporary Materials (funkcia: člen red. rady)
Obzory matematiky, fyziky a informatiky (funkcia: Člen red. rady)

RNDr. Naďa Mrkývková, PhD.

Československý časopis pro fyziku (funkcia: editor)

doc. RNDr. Martin Plesch, PhD.

Scientific Reports (funkcia: člen Editorial board)

Prof. Yuriy Plevachuk, DrSc.

Journal of Physical Studies (funkcia: associate editor)

Ing. Peter Švec, DrSc.

Journal of Materials Science and Technology (funkcia: člen redakčnej rady)
PAR - Pomiary-Automatyka-Robotyka (funkcia: člen programového výboru)

7.6. Činnosť v domácich vedeckých spoločnostiach

Mgr. Erik Bartoš, PhD.

Slovenská fyzikálna spoločnosť (funkcia: člen)
Slovenská fyzikálna spoločnosť (funkcia: hospodár)

RNDr. Beata Butvinová, CSc.

Slovenská fyzikálna spoločnosť (funkcia: člen)
Slovenská magnetická spoločnosť pri SVTS (funkcia: člen)

RNDr. Stanislav Dubnička, DrSc.

Slovenská fyzikálna spoločnosť (funkcia: člen)

Ing. Štefan Gmuca, CSc.

Slovenská fyzikálna spoločnosť (funkcia: predseda)

RNDr. Katarína Gmucová, CSc.

Slovenská fyzikálna spoločnosť (funkcia: člen)

Mgr. Andrej Herzán, PhD.

Slovenská fyzikálna spoločnosť (funkcia: člen)

RNDr. Monika Hofbauerová, PhD.

Slovenská chemická spoločnosť (funkcia: člen)

Ing. Matej Jergel, DrSc.

Jednota slovenských matematikov a fyzikov (funkcia: člen)

Slovenská fyzikálna spoločnosť (funkcia: člen)

Učená spoločnosť Slovenska (funkcia: riadny člen)

RNDr. Pavol Kalinay, CSc.

Slovenská fyzikálna spoločnosť (funkcia: člen)

RNDr. Marián Krajčí, DrSc.

Slovenská fyzikálna spoločnosť (funkcia: člen)

Dr. rer. nat. Ing. Andrej Liptaj, PhD.

Slovenská fyzikálna spoločnosť (funkcia: člen)

prof. Ing. Štefan Luby, DrSc.

Učená spoločnosť Slovenska (funkcia: emeritný člen)

RNDr. Eva Majková, DrSc.

Učená spoločnosť Slovenska (funkcia: emeritný člen)

Dr. rer. nat. Peter Šiffalovič, DrSc.

Učená spoločnosť Slovenska (funkcia: riadny člen)

prof. Ing. Ivan Štich, DrSc.

Učená spoločnosť Slovenska (funkcia: riadny člen)

Ing. Peter Švec, DrSc.

Učená spoločnosť Slovenska (funkcia: riadny člen)

Mgr. Martin Venhart, DrSc.

Slovenská fyzikálna spoločnosť (funkcia: člen)

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

Kolegyňa Adriana Hvizdošová Annušová z oddelenia multivrstiev a nanoštruktúr získala **Cenu M. R. Štefánika**. Ocenenie jej udelili za prínos v oblasti bilaterálnej francúzsko-slovenskej vedeckej spolupráce a slávnostne odovzdali 10. novembra počas otvorenia Týždňa vedy a techniky na Bratislavskom hrade.

V dňoch 13. — 14. 6. 2025 sa uskutočnil festival **My sme SAV** na Hviezdoslavovom námestí v Bratislave. Pri tvorbe programu pre účastníkov ako aj pri demonštrácii exponátov rôznych javov od klasickej fyziky až po kvantovú boli nápomocní M. Bírová, R. Krčmár, A. Liptaj, R. Turanský, A. Repko.

Na **Európskej Noci vedy** 26. 9. 2025 Fyzikálny ústav tradične pripravil vedecký stánok v Starej tržnici. Tento rok návštevníkov sprevádzali A. Liptaj, A. Repko, R. Turanský, K. Végső. Paradoxy kvantového sveta a geometriu kvantovej mechaniky predstavili M. Ziman a K. Szymański, M. Venhart porozprával o jadrovej fyzike v každodennom živote.

V rámci podujatia Týždeň vedy a techniky na Slovensku, 10. — 14. 11. 2025 FÚ SAV, v. v. i. zorganizoval vlastný „**(Týž)Deň otvorených dverí na FÚ SAV 2025**“ určený širokej verejnosti, ale najmä študentom stredných a vysokých škôl. Aktivita zahŕňala prednášky a návštevy špecializovaných laboratórií.

Podujatia DOD sa zúčastnili žiaci zo ZŠ Beňovského a jednotlivci, ktorí si prehliadli naše laboratóriá a vypočuli popularizačné prednášky, ktoré sme si pre nich pripravili, napr.

Andrej Liptaj: „Zem, Slnko, Vesmír“

Martin Plesch: „Kvantová kryptografia pre škôlkarov“

Martin Plesch: „Ako veci fungujú“

Návštevníci tak mohli spoznať svet nanomateriálov prostredníctvom názornej prípravy monovrstiev z nanočastíc zlata v kvapalnej fáze pomocou Langmuir-Blodgett vaničky, ďalej zistili, ako je možné nanomateriály pripravovať a aplikovať v praxi. Najmenších žiakov najviac zaujal glovebox, v ktorom sa upravujú dané vyrábané vzorky solárnych článkov. Nechýbala ani prehliadka konfokálneho Ramanovho mikroskopu, iónového lúčového rozprašovača, laboratória atomárnej silovej mikroskopie alebo zariadenia využívajúce RTG žiarenie. Niektoré skupiny žiakov navštívili laboratóriá oddelenia fyziky kovov, kde si vyskúšali prácu s optickými mikroskopmi a zblízka sa pozreli na miniatúrny svet materiálov.

Do prehliadok laboratórií bolo zapojené Oddelenie multivrstiev a nanoštruktúr, Oddelenie fyziky kovov, Centrum pre výskum kvantovej informácie, menovite kolegyne a kolegovia A. Hvizdošová Annušová, K. I. Végső, Y. Halahovets, N. Mrkývková, A. Kálosi, P. Ayyanusamy, A. Senthil Kumar, P. r. Švec, I. Gejdoš Janotová, A. Repko. Koordinátorom DOD bol A. Liptaj.

Fyzikálny ústav SAV, v. v. i. využíva na komunikáciu s verejnosťou aj **sociálnu sieť Facebook**. Počas roka sme zdokumentovali obrazom a textom aktivity našich pracovníkov na ústave, informovali o ich vedeckých výstupoch a popularizačných aktivitách.

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
Mgr. Erik Bartoš, PhD.	Výbor pre koordináciu spolupráce so SÚJV v Dubne	člen
Mgr. Andrej Herzáň, PhD.	Výbor pre spoluprácu SR s CERN	člen
	ISOLDE collaboration committee (ISCC)	zástupca SR
RNDr. Eva Majková, DrSc.	Komisia pre návrh štátnych vyznamenaní	člen
	Stála komisia Rady vlády pre vedu, techniku a inovácie	člen
	pracovná skupina pre hodnotenie OP VaI	člen
Ing. Peter Švec, DrSc.	Atestačná komisia STU	člen
Mgr. Martin Venhart, DrSc.	Výbor pre spoluprácu SR s CERN	podpredseda Výboru
	Výbor pre koordináciu spolupráce so SÚJV v Dubne	člen
	Priemyselná rada FEI STU	člen
	Subatomic Physics Evaluation Section NSERC (Kanada)	člen

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

Názov expertízy: Slovensko 2040

Adresát expertízy: Vláda SR

Spracovateľka: RNDr. Katarína Gmucová, CSc.

Stručný opis: členka aktívnej pracovnej skupiny

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

RNDr. Katarína Gmucová, CSc.

- členka
- predsedníčka I. komory

9.2. Členstvo v Predsedníctve SAV a vo Vedeckej rade SAV

Mgr. Martin Venhart, DrSc.

- Člen Vedeckej rady SAV
- Podpredseda SAV pre 1. oddelenie vied
- Predseda SAV

9.3. Členstvo v komisiách SAV

RNDr. Katarína Gmucová, CSc.

- Bytová komisia SAV (členka)
- Komisia pre transformáciu SAV (členka)
- Komisia SAV pre hodnotenie vedy (členka)
- Legislatívna komisia SAV (členka)

Ing. Matej Jergel, DrSc.

- Komisia SAV pre vyhodnocovanie medzinárodných projektov (člen)

Ing. Peter Švec, DrSc.

- Komisia pre posudzovanie vedeckej kvalifikácie (člen)
- Komisia SAV pre rovnosť (člen)

Mgr. Martin Venhart, DrSc.

- Komisia pre stratégiu rozvoja SAV (člen)
- Komisia SAV pre ekonomické otázky (člen)
- Škodová komisia SAV (člen)

9.4. Členstvo v orgánoch VEGA

Mgr. Andrej Gendiar, PhD.

- Komisia č. 1, všeobecná fyzika a matematická fyzika (člen)

Mgr. Andrej Herzán, PhD.

- Komisia VEGA č. 1 (Člen)

RNDr. Igor Mat'ko, CSc.

- Komisia č. 1 pre matematické vedy, počítačové a informatické vedy a fyzikálne vedy (člen)

Ing. Peter Švec, DrSc.

- Komisia č. 1 pre matematické vedy, počítačové a informatické vedy a fyzikálne vedy (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

Ústav je zapojený do naplňovania akčného plánu a ďalších činností koordinovaných Úradom SAV. Zvyšuje informovanosť pracovníkov a sprístupňuje potrebné dokumenty, zjednocuje a formalizuje vnútorné smernice, otvára ústav novým zahraničným pracovníkom, zosúladzuje procesy výberových konaní pracovníkov s princípmi otvoreného, transparentného a spravodlivého náboru.

Uveďte stručnú charakteristiku a hodnotenie aktivít v oblasti HRS4R.

10.2. Informácie o aktivitách súvisiacich s uplatňovaním princípov rodovej rovnosti

Princíp rodovej rovnosti dodržiavaný na FÚ SAV, v. v. i. je založený na rovnosti príležitostí vo všetkých aspektoch. Na ústave nebol zaznamenaný žiaden prejav porušenia týchto princípov, prípadne rôzneho prístupu na základe rodu alebo inej charakteristiky.

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	14	14	0	4	3	1
2. Projekty APVV	13	10	3	10	9	1
3. Projekty EŠIF/OP ŠF, Plán obnovy EÚ	7	5	2	0	0	0
4. Projekty SASPRO	2	2	0	0	0	0
5. Projekty IMPULZ	2	2	0	0	0	0
6. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)	3	2	1	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	2	2	0	0	0	0
2. Projekty ERA.NET, ESA, JRP	1	1	0	0	0	0
3. Projekty COST	1	1	0	1	1	0
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	1	1	0	1	1	0
5. Projekty v rámci medzivládnych dohôd	0	0	0	0	0	0
6. Projekty Mobility, Mobility Basic, Open Mobility a Mobility Visit	0	0	0	0	0	0
7. Bilaterálne projekty ostatné	0	0	0	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	1	0	1	2	2	0

10.2.2. Výskum zameraný na rodovú problematiku

Nevykonávame.

Uveďte 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

FÚ vytvára prostredie, ktoré nielen podporuje profesijný rast zamestnancov, ale zároveň zabezpečuje aj ich práva a ochranu v súlade s platnými pracovnými predpismi. Všetky pracovné podmienky a sociálne výhody, ktoré sú zamestnancom poskytované, sú transparentné a v súlade s legislatívou, ako aj s etickými a profesionálnymi normami. Hlavnou normou špecifikujúcou tieto podmienky je pracovný poriadok a kolektívna zmluva.

Pracovné podmienky:

Zamestnanci sú často vystavení vysokým nárokom na odbornú kvalifikáciu, kreativitu a intenzívnu duševnú prácu. Z tohto dôvodu je potrebné, aby pracovné podmienky zohľadňovali tieto špecifiká a zabezpečili priaznivé pracovné prostredie. To zahŕňa:

1. **Bezpečnosť a ochrana zdravia pri práci:** Všetky pracovné prostredia, či už laboratórne alebo administratívne, musia byť vybavené modernými technológiami a zariadeniami, ktoré zaručujú bezpečnosť pri vykonávaní odborných činností. Zároveň je nevyhnutné pravidelné školenie zamestnancov v oblasti bezpečnosti práce a poskytovanie potrebných ochranných pomôcok.
2. **Pracovný čas a flexibilita:** zavedený flexibilný pracovný čas umožňuje zamestnancom riadiť si pracovnú dobu podľa aktuálnych potrieb projektov alebo osobných preferencií. Flexibilita je dôležitá pre udržanie rovnováhy medzi pracovným a osobným životom.
3. **Podmienky pre profesijný rozvoj:** Zabezpečenie príležitostí na kontinuálne vzdelávanie, účasť na konferenciách, školeniach a výskumných projektoch je kľúčové pre podporu kariérneho rastu zamestnancov.

Sociálne podmienky a výhody:

1. **Zdravotné poistenie a sociálne zabezpečenie:** Zamestnanci majú právo na prístup k zdravotnej starostlivosti a sociálnemu zabezpečeniu, ktoré im poskytuje potrebnú ochranu v prípade choroby, úrazu alebo iných životných okolností, ktoré môžu ovplyvniť ich pracovnú schopnosť.
2. **Dovolenka a voľno:** Základné právo zamestnancov na dovolenku a voľno je zabezpečené zákonom, pričom vedecké inštitúcie môžu zamestnancom ponúknuť aj ďalšie možnosti ako napríklad flexibilné dni voľna alebo dodatočné voľno počas náročných projektov.
3. **Podpora rodiny:** Pre zamestnancov, ktorí sú rodičmi, je dôležité podporovať rovnováhu medzi pracovným a rodinným životom. K tomu slúži už spomínaná flexibilita pracovného času ako aj miesta výkonu práce — možnosť tzv. domácej práce.

Uplatňovanie práv zamestnancov:

Základným právom každého zamestnanca je spravodlivé a rovnaké zaobchádzanie v pracovnom prostredí, čo zahŕňa aj ochranu pred diskrimináciou, mobbingom a inými formami neetického správania. Zamestnanci FÚ majú jasne definované práva a povinnosti. Pravidelné kolégiá na mesačnej báze vytvárajú priestor na komunikáciu medzi zamestnancami a vedením.

Uveďte 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:

- doc. Mgr. Mário Ziman, PhD. (predseda)
- Mgr. Andrej Herzáň, PhD.
- Ing. Matej Jergel, DrSc.
- Dr.Rer.Nat. Ing. Mgr. Andrej Liptaj, PhD.
- Ing. Peter Švec, DrSc.

11.2. Vedecká rada - zloženie a základná informácia o činnosti

Zloženie:

- Mgr. Erik Bartoš, PhD. (predseda)
- RNDr. Nad'a Mrkývková, PhD. (podpredsedkyňa)
- Ing. Irena Gejdoš Janotová, PhD.
- Mgr. Martin Venhart, PhD.
- Ing. Marián Deanko, PhD. (Vacuumschmelze, s. r. o.)
- Mgr. Martin Lištjak, PhD. (VÚJE, a. s.)
- doc. RNDr. Jozef Strečka, PhD. (UPJŠ)

11.3. Dozorná rada - zloženie a základná informácia o činnosti

Zloženie:

- prof. RNDr. Peter Samuely, DrSc. (predseda)
- Ing. Romana Jurkiewiczová
- prof. Ing. Vladimír Nečas, PhD.

11.4. Informácie o štrukturálnych a organizačných zmenách v organizácii

11.5. Zmeny zakladacej listiny, vnútorných predpisov organizácie alebo zakladateľa

12. Činnosť knižnično-informačného pracoviska organizácie

12.1. Knižničný fond

Tabuľka 12a Knižničný fond

Knižničné jednotky spolu		9738
z toho	knihy a zviazané periodiká	
	audiovizuálne dokumenty	
	elektronické dokumenty (vrátane digitálnych)	
	mikroformy	
	iné špeciálne dokumenty - dizertácie, výskumné správy	
	Rukopisy, vzácne tlače	
Počet titulov dochádzajúcich periodík		21
z toho zahraničné periodiká		20
Ročný prírastok knižničných jednotiek		106
v tom	kúpou	106
	darom	
	výmenou	
	bezodplatným prevodom	
	náhradou	
Úbytky knižničných jednotiek		
Knižničné jednotky spracované automatizovane		1390

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)		405
v tom z r. 1	prezenčné výpožičky	326
	absenčné výpožičky	
v tom z r. 1	odborná literatúra pre dospelých	77
	výpožičky periodík	
MVS iným knižniciam		3
MVS z iných knižníc		
MMVS iným knižniciam		
MMVS z iných knižníc		10
Počet vypracovaných bibliografií		

Počet vypracovaných rešerší	2

12.3. Používatelia

Tabuľka 12c Používatelia

Registrovaní používatelia	120
Návštevníci knižnice spolu (bez návštevníkov podujatí)	97

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 €	10193

12.5. Iné informácie o knižničnej činnosti

Elektronický katalóg Knižnice FÚ SAV je zabezpečený formou open source systému PhpMyBibli. Knižničný systém slúži na katalogizáciu knižničných jednotiek a evidenciu užívateľov Knižnice. Katalóg je prístupný na webovej adrese <http://kniznica.fu.sav.sk>.

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

FÚ SAV, v. v. i. bol na základe hodnotenia medzinárodného Metapanelu zaradený do kategórie s charakteristikou:

*„Výskum je viditeľný na európskej úrovni.
Organizácia prispieva hodnotnými výsledkami k rozvoju vednej oblasti v Európe“*

a získal celkové ocenenie "B".

Na základe výsledkov akreditácie pokračujeme v identifikovaní slabých a silných stránok ústavu a realizujeme konkrétne aktivity prispievajúce na rozvoj ústavu.

14.2. Hlavné body Akčného plánu organizácie a stav ich plnenia

V r. 2025 sme pokračovali v napĺňaní hlavných bodov akčného plánu činnosťami:

- Prijali sme 5+2 nových PhD študentov, financovaných z rôznych zdrojov. Počty PhD študentov financovaných z centrálnych zdrojov SAV sa snažíma naplňať na maximum, napriek zdĺhavejším administratívno-technickým problémom pri vybavovaní ich dokumentov (nostrifikácie diplomov atď.).
- V dvoch výberových konaniach na ústavom financovanú pozíciu „IP SAS Fellow“ uspeli kandidáti: S. Ullah nastúpil na oddelenie OMN v r. 2025, M. Balogh nastúpi na oddelenie OJF od r. 2026.
- Boli odmenené publikácie s vysokým impakt faktorom a s vysokým počtom citácií na jednu publikáciu.

14.3. Aktualizácia Akčného plánu organizácie v roku 2025

V uplynulom roku bola sformulovaná nová koncepcia akčného plánu na roky 2030+40, ktorá bola prediskutovaná aj s medzinárodným poradným panelom. V r. 2026 sa očakáva jeho finálne potvrdenie. Ústav tiež pokračuje v napĺňaní cieľov výkonnostnej zmluvy o poskytnutí finančných prostriedkov na podporu vedy a výskumu v rámci Akčného plánu Národnej stratégie výskumu, vývoja a inovácií 2030. Aj v rámci monitoringu zo strany Predsedníctva SAV môžeme konštatovať, že realizované aktivity prispievajú k úspešnému naplneniu všetkých kvantitatívnych a kvalitatívnych ukazovateľov v zadefinovaných šiestich tematických okruhoch.

15. Iné významné činnosti organizácie

Fyzikálny ústav SAV, v.v.i. je členom aj partnerom Národného Centra pre kvantové technológie, z.z.p.o. – QUTE.sk Jeho príspevkom do združenia je poskytnutie priestorov na činnosť tohoto združenia. Zamestnanci oddelenia Centra pre výskum kvantovej informácie skrze partnerstvo vykonávajú najmä organizačnú, konzultačnú a popularizačnú činnosť s cieľom všeobecnej podpory rozvoja kvantových technológií na Slovensku.

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

Dátum podania	Meno žiadateľa	Vyžiadaná informácia a spôsob jej poskytnutia	Forma prijatia	Výsledok a spôsob vybavenia žiadosti
11.11.2025	Úrad SAV	Postúpenie žiadosti o sprístupnenie informácií (Žiadosť o informáciu, doc. RNDr. Martin Plesch, PhD.) – zaslať formou elektronickej schránky	Elektronická schránka	14.11.2025 Formálne bola vybavená FUSAV-1255/2025 Podnet na vydanie rozhodnutia o čiastočnom zneprístupnení informácií 20.11.2025 Oznámenie U SAV o vydaní rozhodnutia
16.11.2025	doc. RNDr. Martin Plesch, PhD.	Žiadosť o informácie súvisiace s poskytovaním právnych a/alebo poradenských služieb povinnej osobe od 1.9.2025 do podania žiadosti	Elektronická schránka	26.11.2025 Podnet na vydanie rozhodnutia o čiastočnom zneprístupnení informácií 3.12.2025 SAV vydalo rozhodnutie o čiastočnom neprístupnení informácií
19.12.2025	Úrad SAV	Výzva na vyjadrenie na „Odvolanie voči fiktívnemu rozhodnutiu o čiastočnom odmietnutí poskytnutia informácie zo dňa 20.11.2025“	Elektronická schránka	11.1.2026 FUSAV-35/2026 Vyjadrenie k odvolaniu
8.1.2026	Úrad SAV	Výzva na vyjadrenie na „Odvolanie voči fiktívnemu rozhodnutiu o čiastočnom odmietnutí poskytnutia informácie zo dňa 3.12.2025“	Elektronická schránka	12.1.2026 FUSAV-36/2026 Vyjadrenie k odvolaniu

Uvedte 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

Uveďte informácie a podnety v súlade s názvom kapitoly.

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

Vedecká rada FÚ SAV, v. v. i. kladne hodnotí výsledky získané na pôde Fyzikálneho ústavu FÚ SAV, v. v. i. v uplynulom roku. Vedecká činnosť pracovníkov, ako najmä publikačná činnosť a účasť na grantových schémach, je stabilná v porovnaní s predchádzajúcim obdobím. VR konštatuje spôsobilosť organizácie naďalej vykonávať výskumnú činnosť.

Schválila vedecká rada organizácie SAV dňa 30.01.2026

Mgr. Erik Bartoš, PhD.
predseda vedeckej rady

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

Mgr. Erik Bartoš, PhD., 02/ 59410 kl. 512

Bratislava, 30.1.2026

doc. Mgr. Mário Ziman, 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.	Prof. RNDr. Vladimír Bužek, DrSc.	100	1.00
2.	RNDr. Stanislav Dubnička, DrSc.	50	0.50
3.	Ing. Ján Ivančo, DrSc.	75	0.75
4.	Ing. Matej Jergel, DrSc.	100	1.00
5.	Ing. Ján Kliman, DrSc.	70	0.70
6.	RNDr. Marián Krajčí, DrSc.	100	1.00
7.	prof. Ing. Štefan Luby, DrSc.	50	0.50
8.	RNDr. Eva Majková, DrSc.	25	0.25
9.	Prof. Yuriy Plevachuk, DrSc.	100	1.00
10.	RNDr. Ladislav Šamaj, DrSc.	100	1.00
11.	Dr. rer. nat. Peter Šiffalovič, DrSc.	70	0.70
12.	prof. Ing. Ivan Štich, DrSc.	20	0.20
13.	Ing. Peter Švec, DrSc.	100	1.00
Samostatní vedeckí pracovníci			
1.	MSc. Djeylan Vincent Ceylan Aktas, PhD.	100	1.00
2.	Mgr. Erik Bartoš, PhD.	100	1.00
3.	Ing. Vlastimil Boháč, CSc.	100	1.00
4.	RNDr. Beata Butvinová, CSc.	100	1.00
5.	Gilberto Ferreira Borges, PhD.	100	1.00
6.	Mgr. Peter Filip, PhD.	20	0.20
7.	Ing. Irena Gejdoš Janotová, PhD.	100	1.00
8.	Mgr. Andrej Gendiar, PhD.	100	1.00
9.	Mgr. Seyed Arash Ghoreishi, PhD.	100	1.00
10.	Ing. Štefan Gmuca, CSc.	70	0.70
11.	RNDr. Katarína Gmucová, CSc.	100	1.00
12.	Ing. Yuriy Halahovets, PhD.	100	1.00
13.	Mgr. Andrej Herzán, PhD.	100	1.00

14.	RNDr. Monika Hofbauerová, PhD.	70	0.70
15.	RNDr. Ivan Horváth, PhD.	50	0.14
16.	Mgr. Adriana Hvizdošová Annušová, PhD.	50	0.50
17.	RNDr. Pavol Kalinay, CSc.	100	1.00
18.	doc. Mgr. Denis Kochan, PhD.	100	1.00
19.	Mgr. Roman Krčmár, PhD.	100	1.00
20.	Dr. rer. nat. Ing. Andrej Liptaj, PhD.	100	1.00
21.	RNDr. Lubomir Martinovič, CSc.	40	0.40
22.	RNDr. Igor Maťko, CSc.	100	1.00
23.	Ing. Vladislav Matoušek, CSc.	100	1.00
24.	RNDr. Marek Mihalkovič, CSc.	100	1.00
25.	MSci. Mohammad Hamed Mohammady, PhD.	100	1.00
26.	RNDr. Nad'a Mrkývková, PhD.	50	0.50
27.	Ing. Vojtech Nádaždy, CSc.	100	1.00
28.	Mgr. Daniel Nagaj, PhD.	20	0.20
29.	RNDr. Emil Pinčík, CSc.	100	1.00
30.	doc. RNDr. Martin Plesch, PhD.	50	0.50
31.	RNDr. Anton Repko, PhD.	100	1.00
32.	Saeid Salari, PhD.	100	1.00
33.	Mgr. Michal Sedlák, PhD.	100	1.00
34.	Ing. Mgr. Peter Staňo, PhD.	52	0.52
35.	RNDr. Ondrej Šauša, CSc.	100	1.00
36.	Ing Peter Švec Jr., PhD.	100	1.00
37.	RNDr. Kamil Tokár, PhD.	30	0.30
38.	Ing. Igor Travěnek, CSc.	100	1.00
39.	RNDr. Robert Turanský, PhD.	80	0.80
40.	Mgr. Karol Végső, PhD.	90	0.90
41.	Mgr. Martin Venhart, DrSc.	50	0.50
42.	Ing. Viliam Vretenár, PhD.	25	0.25
43.	doc. Mgr. Mário Ziman, PhD.	100	1.00
Vedeckí pracovníci			
1.	David Amaro Alcala, PhD.	100	0.58
2.	RNDr. Róbert Brunner, CSc.	100	1.00
3.	Mgr. Jozef Genzor, PhD.	100	1.00
4.	MSc. Azadeh Ghannadan, PhD.	100	1.00

5.	Ing. Ján Hudec, PhD.	34	0.34
6.	Ing. Anna Kálosi, PhD.	30	0.30
7.	RNDr. Dušan Lorenc, PhD.	50	0.25
8.	Mgr. Ivana Miháliková	40	0.20
9.	Mgr. Ijaz Ahamed Mohammad, PhD.	100	0.51
10.	Mgr. Natalia Salomé Móller, PhD.	100	1.00
11.	Mgr. Peter Nádaždy, PhD.	50	0.50
12.	Mgr. Peter Rapčan, PhD.	100	1.00
13.	Ing. Jaroslav Rusnák, PhD.	100	1.00
14.	Samiullah Samiullah, PhD.	100	0.80
15.	Ing. Matúš Sedlák, PhD.	100	1.00
16.	Konrad Jan Szymański, PhD.	100	0.83
17.	Ing. Vladimír Štofanič, PhD.	25	0.25
18.	Mgr. Rupali Tiwari, PhD.	20	0.20
19.	Dr. Sebastian Vielhauer, PhD.	100	1.00
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	RNDr. Dušan Janičkovič	100	1.00
2.	Mgr. Ivan Klbič	100	1.00
3.	Ing. Dušan Lacko	25	0.25
4.	doc. Ing. Peter Lacko, PhD.	25	0.25
5.	Matej Moško, MPhil	5	0.05
6.	Mgr. Magdaléna Šolcová	5	0.05
7.	Mgr. Iryna Timchenko, PhD.	100	1.00
8.	Mgr. Filip Varhaník	5	0.01
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Mgr. Radka Hovorková	100	1.00
2.	Mgr. Andrea Korenková	100	1.00
3.	Mgr. Katarína Slezáková	100	1.00
4.	Ing. Beata Solčianska	100	1.00
5.	Ing. Bc. Mária Sovová	25	0.25
6.	Mgr. Mária Surovcová, PhD.	100	1.00
7.	Bc. Mária Švančarová	100	1.00
8.	Mgr. Angelika Winczerová	100	1.00
Odborní pracovníci ÚSV			
1.	Silvia Bačová	100	1.00

2.	Michal Halász	100	1.00
3.	Emília Hoffmannová	100	1.00
4.	Karmen Chorvátová	100	0.42
5.	Jana Koláriková	100	1.00
6.	Marian Markovič	100	1.00
7.	Ivan Sabo	60	0.60
8.	Oľga Švančarová	30	0.30
9.	Zuzana Váleková	100	0.58
10.	Zita Vaňovičová	100	1.00
Ostatní pracovníci			
1.	Róbert Kostka	100	1.00

Zoznam zamestnancov, ktorí odišli v priebehu roka

	Meno s titulmi	Dátum odchodu	Ročný prepočítaný úväzok
Samostatní vedeckí pracovníci			
1.	RNDr. Beata Butvinová, CSc.	31.12.2025	1.00
2.	doc. Mgr. Taras Kavetsky, PhD.	31.8.2025	0.67
Vedeckí pracovníci			
1.	RNDr. Róbert Brunner, CSc.	31.12.2025	1.00
2.	Mgr. Ryszard Pawel Kostecki, PhD.	30.4.2025	0.33
3.	Mgr. Leevi Ilmari Leppäjärvi, PhD.	31.1.2025	0.08
4.	MSc. Fereshte Shahbeigi, PhD.	10.3.2025	0.19
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Mgr. Lukáš Holka	31.8.2025	0.03
2.	Mgr. Nikolas Masničák	31.8.2025	0.00
3.	MSc. Nana Siddhartha Yenamandala	31.1.2025	0.00
4.	Mgr. Shima Sousani	31.1.2025	0.00
5.	Mgr. Daniel Truchan	31.8.2025	0.03
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Ing. Jana Kováčová	30.11.2025	0.92
2.	Bc. Ivana Kúdelová	31.1.2025	0.08
3.	Ing. Denisa Melišková	28.2.2025	0.17
Odborní pracovníci ÚSV			
1.	Michal Halász	31.12.2025	1.00
2.	Emília Hoffmannová	31.12.2025	1.00

3.	Jana Zvončeková	12.1.2025	0.03

Zoznam doktorandov

	Meno s titulmi	Škola/fakulta	Študijný odbor
Interní doktorandi hrazení z prostředkov SAV			
1.	MSc. Ieline Ahmed	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
2.	MSc. Poongodi Ayyanusamy	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
3.	Ing. Monika Bírová	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
4.	MSc. Shuang Deng	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
5.	Mgr. Yuri Chernyak	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
6.	MSc. Kartik Nanasaheb Kakade	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
7.	Mgr. Denisa Lampášová	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
8.	Mgr. Mumtaz Manzoor	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
9.	MSc. Soundarya Neelanarayanan	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
10.	MSc. Samgeeth Puliylil	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
11.	MSc. Ricardo Rivera Cardoso	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
12.	MSc. Soham Sau	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
13.	MSc. Aneesha Senthilkumar	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
14.	MSc. Nana Siddhartha Yenamandala	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
15.	Mgr. Magdaléna Šolcová	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
16.	Mgr. Filip Varhaník	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
17.	MSc. Noel Vincze	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
18.	MSc. Saadat Salman Shariff Wahid Shariff	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
Interní doktorandi hrazení z iných zdrojov			
1.	MSc. Ardra Ajitha Vijayan	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
2.	MSc. Miquel Jorquera Riera	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
3.	Mgr. Ivan Andreevič Kovalev	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
4.	Mphil. Matej Moško	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
5.	MSc. Muhammad Arslan Raza	Fakulta matematiky, fyziky a informatiky UK	1160 fyzika
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 %)

Zoznam emeritných vedeckých zamestnancov

	Meno s titulmi
1.	Doc. RNDr. Emil Běták, DrSc.
2.	RNDr. Juraj Boháčik, CSc.
3.	RNDr. Pavol Butvin, CSc.
4.	RNDr. Emília Illeková, DrSc.
5.	Ing. Ľudovít Kubičár, DrSc.
6.	Ing. Štefan Lányi, DrSc.
7.	Prof., RNDr. Eva Majerníková, DrSc.
8.	RNDr. Peter Mrafko, CSc.
9.	RNDr. Anton Šurda, CSc.
10.	Ing. Ivan Turzo, CSc.

Príloha A-2

Projekty riešené v organizácii

Medzinárodné projekty

Programy: COST

1.) Základné výzvy v teoretickej fyzike

Zodpovedný riešiteľ:	Michal Sedlák
Trvanie projektu:	1.10.2023 / 31.10.2027
Evidenčné číslo projektu:	CA22113
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	- Podpora medzinárodnej spolupráce z národných zdrojov: 1500 €

Dosiahnuté výsledky:

2.) Uhlíkové molekulárne nanoštruktúry vo vesmíre (*Carbon molecular nanostructures in space*)

Zodpovedný riešiteľ:	Peter Šiffalovič
Trvanie projektu:	27.10.2022 / 26.10.2026
Evidenčné číslo projektu:	CA21126
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	- Podpora medzinárodnej spolupráce z národných zdrojov: 1500 €

Dosiahnuté výsledky:

V roku 2025 sme pokročili v systematickej charakterizácii materiálov na báze uhlíka využitím multimodálneho spektroskopického prístupu. Použili sme nanoFTIR mapovanie na dosiahnutie chemického zobrazovania na nanometrovej úrovni. Súčasne bola implementovaná konfokálna Ramanova spektroskopia ako komplementárna metodika na vyhodnotenie štruktúrneho usporiadania a hustoty defektov uhlíkových materiálov. Integrácia týchto techník – preklenujúca medzeru medzi nano- a mikro-rozmermi – ponúka diagnostický rámec pre komplexnú analýzu foriem uhlíka v študovaných vzorkách.

Programy: NATO

3.) Bezpečnostná komunikácia prostredníctvom klasických a kvantových technológií (*Secure Communication via Classical and Quantum Technologies*)

Zodpovedný riešiteľ: Djeylan Vincent Ceylan Aktas
Trvanie projektu: 30.3.2023 / 28.2.2026
Evidenčné číslo projektu: NATO SPS G5985
Organizácia je koordinátorom projektu: nie
Koordinátor: University of Alabama in Huntsville
Počet spoluriešiteľských inštitúcií: 9 - Španielsko: 2, Fínsko: 2, Slovensko: 3, USA: 2
Čerpané financie: NATO: 4603 €

Dosiahnuté výsledky:

Programy: ERANET

4.) Germánium MOSFET pre kvantové počítanie (*Germanium MOSFETs for quantum computation*)

Zodpovedný riešiteľ: Peter Staňo
Trvanie projektu: 1.8.2024 / 31.7.2027
Evidenčné číslo projektu: GA No 101017733
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 4 - Nemecko: 2, Švajčiarsko: 2
Čerpané financie: -
 Podpora medzinárodnej spolupráce z národných zdrojov: 25000 €

Dosiahnuté výsledky:

V priebehu roka 2025 dosiahlo konzorcium niekoľko významných výsledkov. TEM štúdie potvrdili, že vo vzorkách vyrobených konzorciom tvorí MgO kryštalickú, epitaxne usporiadanú vrstvu. Pre tieto vzorky sme zmerali typické hodnoty hustoty a mobility dier. Zároveň sme vykonali porovnávacie štúdie analyzujúce vplyv zloženia oxidu, podmienok rastu a výrobných metód na výkon zariadenia. Teoreticky sme sa venovali fyzikálnym modelom a pokročilým numerickým simuláciám toho ako materiálové napätia, deformácia a elektrické polia ovplyvňujú hmotnosť a ďalšie parametre dier. Okrem toho sme začali s 3D simuláciami, pre modelovanie termálnych, štruktúrnych a elektrostatických podmienok v reálnych zariadeniach.

Programy: Iné

5.) Trvalo udržateľná investícia do inovácií – Katapult pre permanentné magnety (*Sustainable Innovation investment Catapult for Permanent Magnets*)

Zodpovedný riešiteľ: Peter Švec
Trvanie projektu: 1.10.2024 / 31.3.2027
Evidenčné číslo projektu: 101160837
Organizácia je koordinátorom projektu: nie
Koordinátor: Universidad de Jaen
Počet spoluriešiteľských inštitúcií: 10 - Španielsko: 4, Francúzsko: 1, Chorvátsko: 1, Slovinsko: 4

Čerpané financie:

-

Podpora medzinárodnej spolupráce z národných zdrojov: 4603 €

Dosiahnuté výsledky:

Adaptovali sme proces prípravy predzliatin /vstupných materiálov pre prípravu systémov na báze NdFeB využívajúci recyklované magnety. Implementovali sme proces vodíkovej dekrepitácie (rozpad materiálu v dôsledku prenikaniu vodíka do štruktúry – hydrogen decrepitation), skonštruovali sme jednoduchý reaktor pracujúci do 200 °C / 5 atm H₂, krátkodobým tepelným spracovaním je možné dosiahnuť odstránenie povrchovej ochrany – vrstvy Ni – a vytvorenie práškoveho Nd-Fe-B s rozmermi ~50 um vhodnými na ďalšie spracovanie.

6.) Vývoj vysoko-citlivého magnetického gradiometra na báze nových magnetických materiálov (*Design of novel materials-based high performance magnetic gradiometer*)**Zodpovedný riešiteľ:**

Peter Švec

Trvanie projektu:

1.4.2024 / 31.3.2027

Evidenčné číslo projektu:**Organizácia je**

nie

koordinátorom projektu:**Koordinátor:**

Fyzikálny ústav SAV, v. v. i.

Počet spoluriešiteľských

1 - Turecko: 1

inštitúcií:**Čerpané financie:**

-

Podpora medzinárodnej spolupráce z národných zdrojov: 12500 €

Dosiahnuté výsledky:

Zamerali sme sa metodicky na návrh, výrobu, kalibráciu a komplexnú charakterizáciu domáceho trojosového fluxgate magnetometra. Magnetometer využívajúci konfiguráciu s kruhovým jadrom bol vyvinutý na meranie ultranízkyh magnetických polí s vysokou citlivosťou a stabilitou. Podrobne sme rozobrali kritické fázy od výberu materiálu až po optimalizáciu geometrie senzora. Vykonali sme sériu kritických charakterizačných procesov vrátane určenia napätia v nulovom poli, výpočtu mierkového faktora, merania rozlíšenia, analýzy šumu, posúdenia predpätia, vyhodnotenia vplyvu krížového poľa, teplotnej závislosti a určenia šírky pásma senzora. Senzor dosiahol minimálne detekovateľné rozlíšenie magnetického poľa 2.2 nT s úrovňou šumu 1.1 nT/Sqrt(Hz) pri 1 Hz. Testy teplotnej závislosti odhalili minimálny vplyv na výstup senzora s maximálnym posunom 120 nT v rozsahu 60 °C, ktorý bol efektívne kompenzovaný kalibráciou na menej ako 5 nT. V práci sme zaviedli modelovú funkciu v maticovej forme na koreláciu a prepočet výstupného napätia magnetometra na merané magnetické pole vrátane teplotnej závislosti. Významným aspektom práce je dôraz na dôležitosť precíznej kalibrácie a optimalizácie pri vývoji fluxgate magnetometrov vhodných pre rôzne aplikácie od prieskumu vesmíru až po biomedicínsku diagnostiku.

7.) Experimentálne skúmanie reakcií s významom pre pochopenie mechanizmu astrofyzikálneho p-procesu (*Experimental investigation of reactions with importance for understanding the astrophysical p-process mechanism*)**Zodpovedný riešiteľ:**

Iryna Timchenko

Trvanie projektu:

1.6.2025 / 31.5.2027

Evidenčné číslo projektu:

1245817

Organizácia je

áno

koordinátorom projektu:**Koordinátor:**

Fyzikálny ústav SAV, v. v. i.

Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: von Humboldt Institute: 22904 €

Dosiahnuté výsledky:

Programy: Horizont Európa

8.) Novel polymer matrixes and micro/nanocarriers for biosensing improvement (*Novel polymer matrixes and micro/nanocarriers for biosensing improvement*)

Zodpovedný riešiteľ: Ondrej Šauša
Trvanie projektu: 1.7.2023 / 30.6.2025
Evidenčné číslo projektu: 1128327
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: Humboldt: 50287 €

Dosiahnuté výsledky:

9.) Sieť PERmanentných MAGnetov pre prechod do Európy (*PERmanent MAGnet Network for the European Transition*)

Zodpovedný riešiteľ: Peter Švec
Trvanie projektu: 1.11.2024 / 28.2.2028
Evidenčné číslo projektu: 101178444
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: MVTS: 10840 €

Dosiahnuté výsledky:

Na vyvinutom reaktore umožňujúcom rozpad materiálu v dôsledku prenikaniu vodíka do štruktúry sme pripravili z recyklovaných magnetov vzorky Nd-Fe-B v práškovej forme. Pomocou opakovanej rtg. difrakcie sme overili možnosť dlhodobej expozície materialu mimo ochrannej atmosféry.

Programy: Digital Europe Programme

10.) Slovenská kvantová komunikačná infraštruktúra (*Slovak quantum communication infrastructure*)

Zodpovedný riešiteľ: Djeylan Vincent Ceylan Aktas
Trvanie projektu: 1.1.2023 / 31.12.2025

Evidenčné číslo projektu: DIGITAL-2021-QCI-01 No. 101091548
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: EC: 3781481 €

Dosiahnuté výsledky:

Domáce projekty

Programy: VEGA

1.) Zdroje previazaných párov fotónov pre základné štúdie, metrológiu a kvantovú komunikáciu (*Entangled Photon pairs Sources for fundamental studies, metrology and quantum communication Beyond QKD*)

Zodpovedný riešiteľ: Djeylan Vincent Ceylan Aktas
Trvanie projektu: 1.1.2025 / 31.12.2028
Evidenčné číslo projektu: 2/0157/25
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 20391 €

Dosiahnuté výsledky:

V prvom roku sa začal výskum vo všetkých WP projektu.

2.) Fenomenologické modelovanie štruktúry častíc (*Phenomenological modeling of particle structure*)

Zodpovedný riešiteľ: Erik Bartoš
Trvanie projektu: 1.1.2025 / 31.12.2028
Evidenčné číslo projektu: 2/0084/25
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 9356 €

Dosiahnuté výsledky:

Bol preskúmaný problém existencie tlmených oscilujúcich štruktúr pre efektívne elektromagnetické formfaktory deuterónu, využitím rovnakej procedúry ako v prípade protónov, napriek tomu, že neexistujú experimentálne údaje pre totálny účinný prierez $e+e- \rightarrow D \text{ bar}D$. Spoločný výsledok deuterónových, kaónových a nukleónových analýz indikuje, že zdanlivé tlmené oscilujúce štruktúry nie sú reálne a sú výsledkom veľmi zjednodušeného teoretického popisu založeného na elementárnom trojparametrovom modeli. Na druhej strane použitý unitárny a analytický model

demonštruje svoje schopnosti byť aplikovaný na opis rôznych hadrónových procesov.

V rámci kovariantného kvarkového modelu bol analyzované šírky leptonického rozpadu ťažkých kvarkónií, najmä B^0 a B^+ , ako komplementárne pozorovateľné prvky k semileptonickým rozpadom ťažkých mezónov.

Boli publikované štyri publikácie a dva konferenčné príspevky. Práce zahŕňajú aj publikáciu venovanú konštrukcii aproximáciám derivácie, ktoré sa konštruujú ako mocninné rady zostavené z rôznych funkcií.

3.) Progresívne prírodné izolačné materiály pre drevostavby - laboratórny a in-situ výskum vlastností (*Progressive natural insulation materials for wooden buildings - laboratory and in-situ property research*)

Zodpovedný riešiteľ:	Vlastimil Boháč
Trvanie projektu:	1.1.2025 / 31.12.2028
Evidenčné číslo projektu:	1/0179/25
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Igaz Rastislav, Ing. PhD.
Počet spoluriešiteľských inštitúcií:	6 - Taliansko: 2, Slovensko: 3, Švédsko: 1
Čerpané financie:	VEGA SAV: 3021 €

Dosiahnuté výsledky:

Vzorky jedľového dreva boli vyšetrované pomocou Transient Plane Source Method (TPS-HodDisk) metódy. Drevo ako prírodný materiál je anizotropný a preto tepelné vlastnosti závisia od orientácie jeho štruktúry (longitudinálne, radiálne a tangenciálne smery). TPS metóda umožňuje meranie anizotropie pomocou príslušného modelu. Pre jedľové sme namerali hodnoty pre tepelne spracované a surové drevo. Rozdiely hodnôt tepelnej vodivosti medzi longitudinálnym a radiálnym smerom je 0,19 ku 0,15 pre tepelne modifikované drevo a 0,294 ku 0,177 pre referenčnú vzorku. Po dokončení meraní všetkých 30 vzoriek a ich celkovej štatistickej analýze budú výsledky publikované pre všetky smery anizotropie.

V spolupráci s Považskou cementárňou Ladce boli vyšetrené vlastnosti vzoriek betónov. Vlastnosti štandardnej zmesi betónu boli porovnané s betónom kde recyklovaný tehlový odpad bol použitý ako jeden z komponentov. Takéto zloženie v rámci obnoviteľných alebo recyklovateľných zdrojov materiálov prispieva k ekologickým riešeniam konštrukcie budov.

V COMSOL Multiphysics bol vypracovaný model pre vplyv nerovného povrchu na prenos tepla. Bude slúžiť na porovnanie s výsledkami získanými experimentálne.

4.) Kvantové simulácie a modelovanie interakčných sietí (*Quantum Simulations and Modelling of Interaction Networks*)

Zodpovedný riešiteľ:	Andrej Gendiar
Trvanie projektu:	1.1.2022 / 31.12.2025
Evidenčné číslo projektu:	2/0156/22
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 24049 €

Dosiahnuté výsledky:

Zovšeobecnil sme renormalizačný algoritmus pre spinové magnetické systémy vo vertexovej formulácii, kde sme vypočítali von Neumannovu entropiu kvantovej previazanosti (PRE111, 024105).

Analyzovali sme gravitačné modely študujúce vplyv zakrivených priestorov, kde sme zosummarizovali použitie kvantových informačných metód na skúmanie rozhrania medzi kvantovou teóriou a gravitáciou (RBEF 47, e20250371).

Teoreticky sme skúmali miešanie ťažkých a ľahkých dier v 2D systéme s indukovanou spin-orbitálnou interakciou. Identifikovali sme dva rôzne typy hamiltonovských členov. Prvý typ mení smer čistých spinorov bez primiešania zložiek ľahkých dier. Je efektívny pre Rabiho riadenie spinu ťažkých dier. Druhý typ indukuje miešanie a mení vlastné čísla g tenzora. Našli sme kanonický súradnicový systém spojený s generickým spin-3/2 Hamiltoniánom s časovo-reverznou symetriou (PRB 111, 115301).

5.) Tvarová koexistencia v atómových jadrách (*Shape coexistence in atomic nuclei*)

Zodpovedný riešiteľ:	Andrej Herzán
Trvanie projektu:	1.1.2024 / 31.12.2026
Evidenčné číslo projektu:	2/0175/24
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 21590 €

Dosiahnuté výsledky:

V druhom roku riešenia projektu pokračovali aktivity súvisiace s detailnou analýzou dát pre nepárne izotopy zlata. Bola identifikovaná nová izoména hladina s extrémne fragmentovaným rozpadom a vykonaná základná analýza JR161 dát. Výskumná skupina úspešne zorganizovala medzinárodnú vedeckú konferenciu ISTROS-2025, kde zároveň členovia skupiny prezentovali svoje výsledky a diskutovali ich so svetovými odborníkmi na danú oblasť výskumu. Je pripravený návrh experimentu, ktorý bude predložený JYFL-PAC programovej komisii vo Fínsku na jar 2026. Skupina realizovala viacero experimentov a testovacích meraní prevažne v INFN-LNL Legnaro v Taliansku. Boli publikované 4 CC práce.

6.) 3D tlač filamentov s „nevšednými“ plnivami pre špeciálne aplikácie (*3D printing of filaments with "non-conventional" fillers for special applications*)

Zodpovedný riešiteľ:	Adriana Hvizdošová Annušová
Trvanie projektu:	1.1.2024 / 31.12.2027
Evidenčné číslo projektu:	VEGA 2/0056/24
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Ústav polymérov
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 1741 €

Dosiahnuté výsledky:

V druhom roku projektu sme pokračovali v príprave nanočastíc MoOx využitím dvoch prístupov: mikrovlnnej sol gel metódy a kontrolovanej chemickej redukcie z MoO₃, ktoré umožnili získať materiál vo vyšších koncentráciách. Pripravené nanomateriály boli následne zapracované ako funkčné plnivá do rôznych polymérnych filamentov s cieľom posúdiť ich vhodnosť pre aplikácie v 3D tlači. Všetky vzniknuté kompozity boli podrobené charakterizácii zameranej na ich štruktúrne, optické a mechanické vlastnosti, čím sa vytvoril pevný základ pre ďalšiu optimalizáciu materiálov.

7.) Analýza mechanizmu detekcie chemoodporových nanoštruktúrovaných senzorov na báze oxidov kovov (*On sensing mechanism of chemiresistive nanostructured sensors based on metal oxides*)

Zodpovedný riešiteľ: Ján Ivančo
Trvanie projektu: 1.1.2023 / 31.12.2025
Evidenčné číslo projektu: 2/0142/23
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 4917 €

Dosiahnuté výsledky:

Trioxid volfrámu (WO₃) je polymorf. Nízkoteplotná fáza epsilon, ktorá je v objemovom WO₃ stabilná iba pri teplotách <-40°C, je sľubným aktívnym materiálom. Posun stability tejto fázy do vyšších teplôt sa dosahuje napr. mikrokryštalickou morfológiou a dopovaním. Projekt sa venoval štruktúre mikrokryštalického WO₃ dopovaného chrómom. Simultánnym použitím pomocou viacerých metód (Ramanova spektroskopia, rtg difrakcia, rastrovacia a transmisná elektrónová mikroskopia) sme identifikovali charakteristické frekvencie fázy epsilon v oblasti nízkych frekvencií Ramanovho spektra, ktoré umožňujú stanoviť obsah fázy epsilon v polykryštalickom WO₃.

8.) Dimenzionálna redukcia transportných rovníc v priestorovo obmedzených systémoch

Zodpovedný riešiteľ: Pavol Kalinay
Trvanie projektu: 1.1.2024 / 31.12.2026
Evidenčné číslo projektu: 2/0020/24
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 2400 €

Dosiahnuté výsledky:

Difúzia častice v nehomogénnych kvázi-1D kanáloch za pôsobenia reálnej alebo aj efektívnej sily sa dá popísať zovšeobecnenou Fick-Jacobsovou (FJ) rovnicou s efektívnym difúznym koeficientom a potenciálom závisiacim od polohy a času. Asymetria kanálu za pôsobenia periodickej sily môže stochastický pohyb častice usmerniť, vzniká tzv. rocking ratchet effect. Našli sme asymptotické riešenie príslušnej FJ rovnice, dávajúce ratchet prúd v celom frekvenčnom rozsahu pre širokú triedu ratchet modelov.

9.) Časticové mikro- a mezopórovité materiály na báze uhlíka z prírodných prekurzorov

Zodpovedný riešiteľ: Igor Mat'ko
Trvanie projektu: 1.1.2022 / 31.12.2025
Evidenčné číslo projektu: 2/0166/22
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 3944 €

Dosiahnuté výsledky:

Pokračovala širšia štúdia kompozitov, kde sú využité uhlíkové vlákna pripravené karbonizáciou delignifikovanej celulózy ako nosiče čiastočiek aktívnej substancie, konkrétne povrchovo vyprecipitované čiastočky oxidu vybraných kovov. Štúdia sa zamerala na hlbšiu charakterizáciu štruktúry a zloženia aktívnej substancie.

Súhrn výsledkov bol publikovaný v príspevku na seminári "Termoanalytický seminár 2025".

V rámci spolupráces domácimi partnermi bola charakterizovaná aj mikroštruktúra kompozitov, kde ako nosič aktívnej substancie slúži iný organický prekursor, konkrétne sa jednalo o spóry vybraných druhov húb, prípadne drť karbonizovaného bambusu. Výsledky sú publikované v jednej CC publikácii, ďalšia je v procese prípravy.

Do tlače bola zaslaná CC publikácia prezentujúca poznatky o súvislosti použitej techniky prípravy a charakteru poróznej štruktúry pripraveného materiálu pre rozličné org. prekursor.

Pokračovali aj štúdie v rámci medzinárodnej spolupráce. Najvýznamnejší dosiahnutý výsledok je ukážka syntézy a charakterizácia antibakteriálnych účinkov kompozitu, kde ako aktívna substancia slúžia častice oxidu železa pokryté vrstvou striebra. Výsledky sú publikované v CC publikácii.

10.) Hľadanie optimálnych štruktúrnych a elektronických vlastností organických polovodičových vrstiev *(Search for optimal structural and electronic properties of organic semiconductor thin films)*

Zodpovedný riešiteľ: Vojtech Nádaždy
Trvanie projektu: 1.1.2022 / 31.12.2025
Evidenčné číslo projektu: 2/0165/22
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: VEGA SAV: 12239 €

Dosiahnuté výsledky:

Pomocou metódy ER-EIS sme identifikovali polohy valenčného a vodivostného pásu a defektných stavov vo vrstvách sulfidov bizmutu a antimónu. Analýzou tangensu strát získaného z meraní ER-EIS na vrstvách polyméru P3HT a organicko-anorganického perovskitu sme poukázali komplexnú povahu defektných stavov v pásmovej medzere tenkého polovodičového filmu. Demonstrovali sme, že táto analýza umožňuje kvantifikovať pomer povrchových a objemových defektných stavov, ktorý je rozhodujúci pri posudzovaní vplyvu príslušných defektov na transport náboja. Výpočtovým modelovaním metódou DFT sme prispeli k objasneniu závislosti medzi množstvom dodávaného kyslíka a obsahom bóru pri syntéze diamantových vrstiev. Ďalšia teoretická štúdia sa zaoberala transportom náboja v tuhých látkach.

Výsledky boli publikované v 3 CC časopisoch a 1 zborníku z konferencie.

11.) Výskum a optimalizácia vlastností štruktúr na báze čierneho c-Si a čierneho poly-Si pre výrobu veľkoplošných vysokoúčinných slnečných článkov

Zodpovedný riešiteľ: Emil Pinčík
Trvanie projektu: 1.1.2023 / 31.12.2025
Evidenčné číslo projektu: 2/0007/23
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 4370 €

Dosiahnuté výsledky:

V projekte sme sa sústredili najmä na výskum polovodičových poréznych aj viacvrstvových štruktúr optickými, mikroskopickými a rtg metodikami. Ako optimálne sa nám ukázalo vhodnejšie pracovať s mikrokryštalickými vrstvami p aj n typov ako s polykryštalickým Si, ktorý sme nedokázali získať, kúpiť vo vhodnej čistote. Jedným z najdôležitejších aplikovaných procesov bola pasivácia defektných stavov štruktúr v KCN roztokoch. Používali sa tri druhy pasivačných roztokov – KCN v MeOH pri izbovej teplote a vo vriacom roztoku a KCN vo vode pri izbovej teplote. Pasivované štruktúry boli pripravované paralelne na kryštalickom kremíku a aj na skle. Ako príklad skúmanej multivrstvej štruktúry uvediem n-typ mikroSi-intrinzický a-Si:H-sklo, resp. n-typ mikroSi-intrinzický a-Si:H- n-typ c-Si (100). Na týchto typoch štruktúr sme dosiahli pravdepodobne najdôležitejšie výsledky. Sú publikované v Book of Extended Abstracts of SURFINT-SREN IV z roku 2025.

12.) Efektívne algoritmy pre kvantové počítanie v ére NISQ (*Resource Efficient Algorithms for Quantum Computers in NISQ Era*)

Zodpovedný riešiteľ: Martin Plesch
Trvanie projektu: 1.1.2023 / 31.12.2026
Evidenčné číslo projektu: 2/0055/23
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 10495 €

Dosiahnuté výsledky:

V rámci projektu boli publikované dva články, Ďalšie zaslané na publikovanie.

13.) Rast a optická charakterizácia 2D materiálov: MoTe₂, WTe₂, PtTe₂ (*Growth and optical characterization of 2D materials: MoTe₂, WTe₂, PtTe₂*)

Zodpovedný riešiteľ: Lenka Pribusová Slušná
Zodpovedný riešiteľ v organizácii SAV: Karol Végső
Trvanie projektu: 1.1.2023 / 31.12.2025

Evidenčné číslo projektu: 2/0046/23
Organizácia je nie
koordinátorom projektu:
Koordinátor: Elektrotechnický ústav SAV, v. v. i.
Počet spoluriešiteľských 0
inštitúcií:
Čerpané financie: VEGA SAV: 2009 €

Dosiahnuté výsledky:

V roku 2025 boli vykonávané štrukturálne charakterizácie TMD tenkých vrstiev ako PtTe₂ vrstiev pomocou širokouhlového-rozptylu RTG žiarenia (ďalej len technika GIWAXS). Pomocou techniky GIWAXS som vykonával merania prispôbenia kryštalickej mriežky TMD vrstvy voči kryštalickej podložke ako napríklad začír. Podarilo sa nám vyvinúť rtg techniku merania phi-skenov na TMD vrstvách kombinovanou s metódou GIWAXS. Navyše sme skombinovali techniku GIWAXS s princípom rtg difrakčnej tomografie na odraz a demonštrovali sme tak novú rtg difrakčnú techniku s názvom GIWAXS tomografia. Táto nová technika nám umožnila mapovať laterálne kryštalickú fázu TMD vrstiev na podložke. V roku 2025 sme pripravili článok o danej technike a zaslali sme ho do Journal of Applied Crystallography, kde bol prijatý za publikáciu 18. januára 2026. V súčasnosti čakáme na proofs-y a pridelenie DOI. Názov článku je "Crystallite Orientation and Lateral Material Distribution in TMDs Thin Film Studied by Laboratory GIWAXS".

14.) Kvantové štruktúry (*Quantum Structures*)

Zodpovedný riešiteľ: Michal Sedlák
Trvanie projektu: 1.1.2025 / 31.12.2028
Evidenčné číslo projektu: 2/0164/25
Organizácia je áno
koordinátorom projektu:
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských 0
inštitúcií:
Čerpané financie: VEGA SAV: 29467 €

Dosiahnuté výsledky:

V prvom roku projektu QUAS sa podarilo opublikovať dva články. Výsledky z oblasti kvantovej zložitosti algoritmov boli publikované v Leibniz International Proceedings in Informatics, článok č. 6; str. 1–24 (2025). Predstavili sme nové qubitové varianty problému splniteľnosti (QSAT), ktoré sú úplné pre BQP1, coRP, QCMA, PI(coRP,NP), PI(BQP1,NP), PI(BQP1,MA), SoPU(coRP,NP), SoPU(BQP1,NP) a SoPU(BQP1,MA). Naš výsledok naznačuje, že úplná klasifikácia kvantových problémov splniteľnosti (QCSP), analogická Schaeferovej dichotómii pre klasické CSP, musí byť zahŕňať týchto 13 tried, alebo inak ukázať, že niektoré sú si rovné. Naš ďalší výsledok sa týkal geometrického potenciálu pre Bose-Einsteinov kondenzát na zakrivenom povrchu. Bol publikovaný v AVS Quantum Science 7, 033203 (2025). Vypočítali sme základný stav Bose-Einsteinovho kondenzátu na zakrivenom povrchu a odhalili sme dôsledky zakrivenia. Zistili sme, že k najväčšej akumulácii atómov dochádza v oblastiach s najväčším rozdielom medzi hlavnými zakriveniami. V prípade predĺženého elipsoidu k tejto akumulácii dochádza na rovníku, čo je v rozpore s predchádzajúcimi zisteniami, ktoré opisujú akumuláciu na póloch bublinovej pasce.

15.) Efektívne interakcie v nízкотеплотnej termodynamike coulombovských systémov

Zodpovedný riešiteľ: Ladislav Šamaj
Trvanie projektu: 1.1.2024 / 31.12.2026

Evidenčné číslo projektu: VEGA 2/0089/24
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 5997 €

Dosiahnuté výsledky:

Pre základný stav jednorozmerných fluidov s párovými interakciami medzi časticami bola dokumentovaná možnosť spontánneho narušenia translačnej symetrie, konkrétne prechodu medzi ekvivalentným a bipartitným základným stavom. V oblasti termodynamiky jednorozmerných fluidov bolo ukázané, že anomálny jav zmenšovania objemu so zvyšovaním teploty existuje aj v prípade presne riešiteľného modelu s interakciami medzi najbližšími susedmi. Pre kulombovské systémy s modulovaným povrchovým nábojom bol dokázaný teorém spájajúci hustotu náboja na a v blízkosti povrchu s modulovaným povrchovým nábojom. Výsledky boli publikované vo forme 3 publikácií v CC časopisoch.

16.) Fyzikálne vlastnosti nových kryoprotektívnych materiálov inšpirovaných prírodnými kryoprotektantami

Zodpovedný riešiteľ: Ondrej Šauša
Trvanie projektu: 1.1.2025 / 31.12.2028
Evidenčné číslo projektu: 2/0131/25
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 2488 €

Dosiahnuté výsledky:

V hodnotenom období boli realizované výskumné aktivity zamerané na pochopenie mechanizmov kryozranenia a na identifikáciu účinných kryoprotektívnych látok a formulácií. Práce kombinovali fyzikálno-chemické experimenty (zatiaľ najmä DSC), bunkové testy na modeli 3T3 fibroblastov a molekulovo-dynamické simulácie zamerané na elektrochemické efekty počas tvorby ľadu. Cieľom bolo prepojiť termodynamické a molekulové poznatky s prakticky relevantnými kryoprotektívnymi stratégiami, vrátane prístupov inšpirovaných prírodnými adaptáciami mrazuvzdorných organizmov. Boli realizované experimentálne štúdie zamerané na termodynamické správanie chemicky definovaného média typu Grace insect medium a jeho binárnych zmesí s vybranými nízkomolekulovými aditívami, konkrétne so sorbitolom, trehalózou, glycerolom, močovinou (urea), threitolom a glukózou. Uvedené médium bolo zvolené ako modelový systém napodobňujúci zloženie hemolymfy zimujúcich živočíchov.

V hodnotenom období bola realizovaná fyzikálno-chemická charakterizácia kryoprotektívnych zmesí na báze polyetylén glykolu (PEG) pomocou DSC na vzorkách FBS (fetal bovine serum – bunkové médium) a jeho zmesiach s PEG 400, PEG 5000 a polymérnym systémom polyakrylát(PEG 400). DSC merania umožnili porovnať vplyv jednotlivých aditív na teplotu topenia, priebeh fázových prechodov a množstvo vytvoreného ľadu.

Tiež boli vykonané molekulovo-dynamické (MD) simulácie zamerané na proces mrznutia v elektrolytických systémoch a na selektívne zachytávanie iónov do rastúcej ľadovej fázy. Simulácie poukazujú na rozdielne miery zachytávania kationov a aniónov, čo vedie k lokálnej poruche elektroneutrality v nezamrznujej časti systému a k vzniku Workman–Reynoldsovho mrznúceho

potenciálu.

Výsledky boli prezentované na medzinárodnej konferencii CRYO2025 v Nemecku.

17.) Analýza tvorby mikroštruktúry a jej vplyv na vybrané vlastnosti bezolovnatých spájk
(*Analysis of microstructure formation and its influence on selected properties of lead-free solders*)

Zodpovedný riešiteľ: Peter Švec
Trvanie projektu: 1.1.2022 / 31.12.2025
Evidenčné číslo projektu: 1/0389/22
Organizácia je
koordinátorom projektu: nie
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských
inštitúcií: 0
Čerpané financie: VEGA: 3568 €

Dosiahnuté výsledky:

Kritický aspekt spájk je spoľahlivosť spájkovaných spojov v širokom rozsahu prevádzkových teplôt, ktorý sa rozširuje aj na teploty pod bodom mrazu. Na základe predchádzajúcich pozitívnych výsledkov v spevňovaní spájkovaných spojov pri zvýšených teplotách po pridaní keramických nanočastíc do kovovej matrice spájky sa uskutočnila štúdia vplyvu niklom potiahnutých nanočastíc SiO₂ prímiesí v bezolovnatých spájkach Sn–3,5Ag–0,5Cu po dlhodobom vystavení teplotám pod bodom mrazu (Journal of Materials Science: Materials in Electronics). Povlakovanie nanočastíc SiO₂ niklom sa uskutočnilo metódou povrchovej modifikácie, ktorá vyriešila problém výroby kompozitných spájk spojený s nemiešaním nereaktívnych oxidov a kovovej matrice. Výskum sa zamerlal na mikroštruktúru a šmykovú pevnosť spájkovaných spojov vytvorených medzi nanokompozitnou spájkou a dvoma medenými substrátmi, a to ako pri izbovej teplote, tak aj po 4 mesiacoch uchovávaní pri teplote –20 °C. Výsledky experimentálnych štúdií naznačujú, že pridanie niklom zdobených nanorozmerných keramických nečistôt do hlavnej spájkovacej matrice vedie k zníženiu rýchlosti rastu intermetalických vrstiev v spájkovaných spojoch. Údaje z testov vykonaných na vzorkách po vystavení teplotám pod bodom mrazu nepreukázali žiadny významný pokles šmykovej pevnosti, čo dokazuje ich účinnosť pri spájkovaní súčiastok v elektronických zariadeniach, ktoré môžu pracovať v širokom rozsahu od mínusových až po zvýšené teploty.

18.) Implementácia konceptu substitúcie HEA atómov pri vývoji nových materiálov pripravených rôznymi ochladzovacími a žihacími rýchlosťami
(*Implementation of the concept of HEA atoms substitution in development of new materials prepared by different quenching and processing rates*)

Zodpovedný riešiteľ: Peter Švec
Trvanie projektu: 1.1.2025 / 31.12.2028
Evidenčné číslo projektu: 2/0120/25
Organizácia je
koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských
inštitúcií: 0
Čerpané financie: VEGA SAV: 20490 €

Dosiahnuté výsledky:

Detailne sme preskúmali magneticky mäkké amorfné zliatiny typu HITPERM (Fe_{81-x}Co_xNb₇B₁₂) pomocou difrakcie synchrotrónového žiarenia v kombinácii s analýzou párovej distribučnej funkcie

(PDF) s cieľom určiť lokálnu atomárnu štruktúru tejto technologicky dôležitej skupiny magneticky mäkkých materiálov (Appl. Phys. Lett.). Analýzou vzoriek s rôznymi pomermi Fe/Co sme pomocou PDF analýzy v kombinácii s RMC modelovaním ukázali, že existuje výrazná tendencia atómov Fe a Co lokálne sa asociovať v okolí ekvatomárneho zloženia Fe/Co, čo naznačuje existenciu zhukovania alebo usporiadania na krátke vzdialenosti v skúmanej oblasti zložení.

Na súbore magneticky mäkkých vzoriek systému Fe-Co-B+Cu pripravenom v predošlom období sme preskúmali vplyv legovania malým množstvom Cu a žihania metódami stredne krátkych žihacích časov (~ niekoľko sekúnd) pri zvýšených teplotách na výsledné magnetické vlastnosti. Overovali sme aj efekt prítlaču pri tepelnom spracovaní na magnetické parametre vzoriek. Získané výsledky zdôrazňujú o.i. aj význam prítomnosti malého množstva Cu na výslednú štruktúru a magnetické vlastnosti týchto nanomateriálov.

Práce zamerané na prvoprincípové štúdie špeciálne usporiadaných štruktúr, ktoré následne poskytujú nevyhnutnú fyzikálnu a termodynamickú metodiku pre riešenia štruktúr a vlastností skúmaných materiálov, predstavujú neoddeliteľnú a priebežne doplňovanú expertízu pre pochopenie pozorovaných fundamentálnych javov v týchto systémoch. Práce v Phys. Rev. B (2x) a J. Phys.: Cond. Matter predstavujú prínos k poznaniu usporiadania v systémoch na báze Al-Mn, ktoré sú predmetom skúmania ako perspektívne magneticky tvrdé materiály na báze Al₄₅Mn₅₅.

Zliatiny typu HEA sa vynikajúco hodia pre koncept ladenia fyzikálnych (a technických) vlastností vhodným výberom série atómov a ich vzájomného pomeru. Využili sme tento koncept o.i. pri skúmaní vlastností (elektrická vodivosť, teploty tavenia, fázové prechody) perspektívnych materiálov pre nízkotaviteľné bezolovnaté spájky (Journal of Physical Studies). Tieto hrajú kľúčovú úlohu v procese postupného spájkovania, ktoré sa bežne používa pri výrobe viacčipových modulov ako aj optoelektronických súčiastok. Keďže takéto spájky pomáhajú minimalizovať tepelné poškodenie, používajú sa aj na spájanie teplotne citlivých súčiastok vo vysoko spoľahlivej elektronike. Preskúmali sme elektrický odpor ekvatomárnych viaczložkových zliatin Bi-In-Sn-Zn, Bi-In-Zn-Sn-Cu a Bi-In-Sn-Zn-Cu-Ag, ako kľúčovú charakteristiku spájok v širokom rozsahu teplôt od izbovej teploty až po kvapalný stav (roztavená spájka) so zameraním na oblasť topenia a tuhnutia. Teplotné závislosti elektrického odporu v rozsahu teplôt topenia a tuhnutia boli potvrdené kalorimetriou a rtg. analýzou. Získané výsledky naznačujú, že modifikácia binárnych a ternárnych zliatin na báze Sn, Ag a Cu ďalšími prvkami (Bi, In, Zn) môže vhodne ovplyvniť (znížiť) teploty potrebné pre priemyselné spájkovanie.

Programy: APVV

19.) Platforma fotonických previazaných quditov pre kvantové technológie (*Photonic entangled qudits platform for quantum technologies*)

Zodpovedný riešiteľ:	Djeylan Vincent Ceylan Aktas
Trvanie projektu:	1.9.2025 / 31.8.2029
Evidenčné číslo projektu:	APVV-24-0661
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 6800 €

Dosiahnuté výsledky:

Projekt bol v začiatkovej fáze riešenia.

20.) Využitie nanomedicíny v boji proti rakovine pankreasu prostredníctvom zacielenia

nádorovo-asociovej karbonickej anhydrázy IX. (*Nanomedical approach to fight pancreatic cancer via targeting tumor- associated carbonic anhydrase IX*)

Zodpovedný riešiteľ: Lucia Csáderová
Zodpovedný riešiteľ v organizácii SAV: Adriana Hvizdošová Annušová
Trvanie projektu: 1.7.2021 / 30.6.2025
Evidenčné číslo projektu: APVV-20-0485
Organizácia je koordinátorom projektu: nie
Koordinátor: Biomedicínske centrum SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 5002 €

Dosiahnuté výsledky:

V poslednej etape projektu v roku 2025 prebiehali pokročilé biologické experimenty – 3D sferoidové modely a in vivo testy – ktoré si vyžadovali kontinuálnu prípravu biokonjugátov MoOx-ABPA-M75. Pri ich príprave sme postupovali podľa protokolu vypracovaného v predchádzajúcej fáze riešenia projektu a fyzikálno-chemické vlastnosti konjugátov sme priebežne monitorovali. Vďaka cielene navrhutej štruktúre sa konjugát ukázal ako mimoriadne účinný: vykazuje preferenčnú väzbu na rakovinové bunky a po aplikácii 808 nm žiarenia ich efektívne deštruuje. Na xenograftových modeloch sme po intratumorálnej injekcii pozorovali výrazné zmenšenie nádorov. Projekt sa uzavrel úspešne, s množstvom publikácií a konferenčných príspevkov, a zároveň inšpiroval vznik ďalších vedeckých spoluprác.

21.) Prínos magnetických kvantových a teplotných fázových prechodov pre technologické inovácie (*Impact of magnetic quantum and thermal phase transitions on technological innovations*)

Zodpovedný riešiteľ: Andrej Gendiar
Trvanie projektu: 1.9.2025 / 31.8.2029
Evidenčné číslo projektu: APVV-24-0091
Organizácia je koordinátorom projektu: nie
Koordinátor: Univerzita P.J. Šafárika v Košiciach
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 2750 €

Dosiahnuté výsledky:

N/A Projekt začal v septembri.

22.) Biologický osud nanokomplexov oxidu železa a molybdén oxidu a ich využiteľnosť v terapii (*Biological fate and therapeutic applicability of iron oxide-molybdenum oxide nanocomplexes*)

Zodpovedný riešiteľ: Adriana Hvizdošová Annušová
Trvanie projektu: 1.7.2023 / 30.6.2025
Evidenčné číslo projektu: SK-FR-22-0012
Organizácia je koordinátorom projektu: áno

Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 2 - Francúzsko: 2
Čerpané financie: APVV: 1325 €

Dosiahnuté výsledky:

V poslednej etape riešenia bilaterálneho projektu sme sa sústredili na novú metódu prípravy nanočastíc MoOx pomocou mikrovlnnej sol gel syntézy (Truychan et al. 2025, Discover Nano). Ďalej sme pokračovali v príprave a charakterizácii konjugátov na báze MoOx a FeOx. Za účelom rozšírenia aplikačného potenciálu boli do syntézy nanočastíc zahrnuté aj rastlinné extrakty v rámci programu Štefánik+ (Ivashchenko et al. 2026, Biological Advances). Projekt sme uzavreli ako úspešný. Riešenie projektu viedol k publikovaniu štyroch vedeckých článkov, viacerých konferenčných príspevkov a k rozvoju pokračujúcej spolupráce, vrátane získania projektu Dunajskej stratégie a európskeho výskumného projektu v schéme ERA Net.

23.) Fototerapia rekurentných glioblastómov s nádorovo špecifickým trójskym hybridom optimalizovaným na nano-úrovni (*Nanoengineered Trojan hybrid for site-responsive phototherapy of recurrent glioblastomas*)

Zodpovedný riešiteľ: Adriana Hvizdošová Annušová
Zodpovedný riešiteľ v organizácii SAV: Matej Jergel
Trvanie projektu: 1.9.2024 / 30.6.2028
Evidenčné číslo projektu: APVV-23-0535
Organizácia je koordinátorom projektu: nie
Koordinátor: Centrum pre využitie pokročilých materiálov SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 15561 €

Dosiahnuté výsledky:

V roku 2025 sme sa zamerali na prípravu a charakterizáciu nanočastíc MoOx dvomi metódami: exfoliáciou v tekutej fáze a novovyvinutou mikrovlnami asistovanou sol gel metódou. Pripravili sme konjugáty MoOx RGD a skúmali fyzikálno chemické vlastnosti MoOx aj MoOx RGD z hľadiska ich vhodnosti na zabudovanie do hydrogelových matíc. Nanočastice MoOx sme následne zabudovávali do hydrogelov na báze kopolyméru poly(iPOx co MBL) za rôznych podmienok a vyhodnotili sme účinnosť ich integrácie do polymérnej matrice, ako aj fyzikálno chemické vlastnosti vzniknutého „trojského koňa“ pre protinádorové aplikácie.

24.) pH-závislá fázová premena polyoxomolybdénových nanomateriálov a ich biologická cesta (*pH-triggered Phase Transition of Polyoxomolybdate-Based Nanomaterials and Their Bio Journey*)

Zodpovedný riešiteľ: Adriana Hvizdošová Annušová
Trvanie projektu: 1.7.2025 / 30.6.2027
Evidenčné číslo projektu: DS-FR-24-0051
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 2 - Rakúsko: 1, Francúzsko: 1
Čerpané financie: APVV: 2500 €

Dosiahnuté výsledky:

V prvej etape projektu sme charakterizovali optické vlastnosti dvoch typov polyoxometalát (POM) materiálov ($K_4[PVW_2O_{40}]$, $K_4[SiMoW_2O_{40}]$), pripravených rakúskym partnerom projektu, pomocou konfokálnej Ramanovej mikrospektroskopie (CRM). Okrem toho sme pomocou CRM študovali lokalizáciu týchto nanokláštrov v dvoch typoch buniek. Na ďalšie štúdium sme pripravili aj nanočastice MoO_x , ktorých vlastnosti boli analyzované pomocou NMR.

25.) Navrhovanie kvantových štruktúr vyššieho rádu (*Designing quantum higher order structures*)

Zodpovedný riešiteľ:	Anna Jenčová
Zodpovedný riešiteľ v organizácii SAV:	Michal Sedlák
Trvanie projektu:	1.7.2023 / 30.6.2026
Evidenčné číslo projektu:	APVV-22-0570
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 51565 €

Dosiahnuté výsledky:

Spolu vyšlo 6 publikácií.

26.) Ternárne chalkogenidové perovskity pre fotovoltaiiku (*Ternary chalcogenide perovskites for photovoltaics*)

Zodpovedný riešiteľ:	Matej Jergel
Trvanie projektu:	1.7.2024 / 30.6.2028
Evidenčné číslo projektu:	APVV-23-0202
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Univerzita Komenského v Bratislave, Prírodovedecká fakulta
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 7562 €

Dosiahnuté výsledky:

Chalkogenidové perovskity, konkrétne $BaZrS_3$, sa profilujú ako stabilné a netoxické alternatívy k olovnatým halogenidovým perovskitom pre fotovoltiku novej generácie. Tento projekt sa zameriava na optimalizáciu prípravy tenkých vrstiev $BaZrS_3$ s cieľom zhodnotiť ich základné fotoelektrické vlastnosti. Využitím zjednodušenej architektúry kov-polovodič-kov ITO/ $BaZrS_3$ /Ag sme skúmali mechanizmy fotogenerácie excitónov a rýchlosti rekombinácie závislé od elektrického poľa pri rôznych hodnotách predpätia. Tieto zistenia poskytujú kľúčové poznatky o dynamike nosičov náboja v $BaZrS_3$, čím vytvárajú základ pre vývoj vysokoúčinných solárnych článkov na báze chalkogenidov.

27.) Spintronika korelovaných systémov v materiáloch s proximity efektom (*Correlated Spintronics in Proximitized Materials*)

Zodpovedný riešiteľ: Denis Kochan
Trvanie projektu: 1.9.2025 / 31.8.2028
Evidenčné číslo projektu: APVV-24-0134
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 22464 €

Dosiahnuté výsledky:

28.) Optimálna transportná vzdialenosť pre kvantové merania (*Optimal transport distance for quantum measurements*)

Zodpovedný riešiteľ: Leevi Ilmari Leppäjärvi
Trvanie projektu: 1.7.2023 / 30.6.2025
Evidenčné číslo projektu: SK-FR-22-0018
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 1 - Francúzsko: 1
Čerpané financie: APVV: 1325 €

Dosiahnuté výsledky:

29.) Pokročilé perovskitové solárne články s optimalizovanou pasiváciou a štruktúrou (*Towards Superior Perovskite-based Solar Cells via Optimized Passivation and Structure*)

Zodpovedný riešiteľ: Nad'a Mrkývková
Trvanie projektu: 1.7.2022 / 30.6.2026
Evidenčné číslo projektu: APVV-21-0297
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 29190 €

Dosiahnuté výsledky:

V roku 2025 boli realizované tieto aktivity a dosiahnuté výsledky:

Pasivácia defektov počas vzniku perovskitových vrstiev anorganickými prímiesmi.

Zlepšovanie optoelektronických a štruktúrnych vlastností tenkých perovskitových vrstiev pomocou nízkodimenzionálnych perovskitov s rôznou priestorovou orientáciou.

Povrchová pasivácia perovskitových vrstiev v solárnych článkoch s invertovanou architektúrou (p-i-n).

Optimalizácia prenosu náboja v p-typovej vrstve v (celoperovskitových) tandemových solárnych článkoch.

Účasť na vedeckých konferenciách a prezentácia dosiahnutých výsledkov v 5 CC publikáciách.

30.) Bezanódové tuholátkové lítiové batérie (*Zero-excess solid-state lithium batteries*)

Zodpovedný riešiteľ: Vojtech Nádaždy
Trvanie projektu: 1.7.2023 / 31.12.2026
Evidenčné číslo projektu: APVV-22-0132
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: APVV: 29160 €

Dosiahnuté výsledky:

Náš výskum sa zameriaval na experimentálnu charakterizáciu kinetiky nukleácie a rastu lítia na čistých medených kolektoroch v porovnaní s medou modifikovanou tenkou vrstvou ITO. Identifikovali sme dva odlišné režimy rastu: počiatkový 3D ostrovčekovitý rast (Volmerov-Weberov mechanizmus), po ktorom nasleduje koalescencia týchto ostrovčekov do súvislého lítiového filmu. Tento prechod bol priamo vizualizovaný pomocou operando optickej mikroskopie a následne validovaný prostredníctvom fitovania operando EIS spektier pomocou náhradných elektrických obvodov. Okrem toho poskytla operando Ramanova spektroskopia komplementárne dôkazy o týchto štádiách rastu. Tu vyvinutá multimodálna operando platforma poskytuje robustný rámec pre racionálny návrh a výber litiofilných medzivrstiev pre bezanódové batérie s pevným elektrolytom.

31.) Zmeny mikroštruktúry a fyzikálnych vlastností zosieťovaných polymérov v objeme a v uväznených podmienkach makro- a mezopórov (*Changes of microstructure and physical properties of crosslinked polymers in bulk and under confined conditions of macro- and mesopores*)

Zodpovedný riešiteľ: Ondrej Šauša
Trvanie projektu: 1.7.2022 / 30.6.2026
Evidenčné číslo projektu: APVV-21-0335
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 29645 €

Dosiahnuté výsledky:

Ukončili sa štúdie priebehov reakcií fotopolymerezácie v uväznených podmienkach mezopórov anorganických matic. Boli opublikované objemové štúdie dimetakrylátov pre rôzne zatúpenie monomérov. Študovali sa časové priebehy fotopolymerezácie týchto zmesí monomérov. Pre objemové vzorky bol otestovaný prototyp PALS spektrometra pre meranie pri rôznych tlakoch a teplotách na 2M dimetakrylátovej ekvimolárnej zmesi UDMA a D3MA.

Frontálna polymerizácia epoxidov, ako perspektívny spôsob prípravy polymérov bola študovaná pre trojbodovú iniciáciu na materiáli BADGE pre dvojrozmerný prípad. Skúmala sa nehomogenita mikroštruktúry v profile vzorky s dôrazom na oblasť zrážky frontov. Boli nájdené súvislosti medzi rýchlosťou šírenia frontu a lokálnym presietením polyméru, ktoré sa charakterizovalo technikami PALS a FTIR. Dôsledky lokálnych zmien chemizmu vzorky sa prejavilo na zmenách intenzity tvorby Ps v testovacích bodoch vytvrdenej vzorky.

Skúmali sa voľnoobjemové vlastnosti kompozitov na báze BADGE s rôznymi plnivami. Analýzy

časových spektier dôb života pozitronov (PALS technika) ukázali vysokú citlivosť na nehomogenitu mikroštruktúry, ktorá spôsobovala značné rozdiely v tvorbe pozitronia v profile vzoriek. Preto sa pokračuje v analýze profilov pomocou techniky FTIR a hľadajú sa prepojenia výsledkov oboch techník a príčiny takýchto zmien. Zmeny v tvorbe Ps totiž naznačujú neuniformitu chemických väzieb v profile niektorých vzoriek.

Študovali sa modelové materiály s riadenou poréznosťou, určené pre špecifické sorpcie La a Nd. Využili sa skúsenosti s fotopolymerizáciou dimetakrylátov na prípravu špeciálnych polymérnych materiálov, ktoré by v svojich špecifických póroch vychytávali v roztoku ióny uvedených prvkov. Tieto materiály boli charakterizované z hľadiska prítomnosti voľných objemov pomocou pozitronov (malé póry atomárnych rozmerov) alebo pozitronia (póry subnanometrových a nanometrových rozmerov). Ukázala sa vysoká citlivosť strednej komponenty časového anihilačného spectra v oblasti stoviek ps na prítomnosť iónov La a Nd v matrici, tak bolo možné posúdiť mieru zachytenia alebo uvoľnenia týchto prvkov z komplexnej polymérnej matrice.

Simulácie MD a výpočty pre skúmané modelové polyméry priniesli niekoľko výsledkov. Predovšetkým sa analyzovali možné spôsoby, ako simulovať plnenie pórov a ktoré softvérové nástroje sú vhodné pre riešenie úloh a aké sú ich ohraničenia. Bolo nájdené analytické riešenie 1D matematického modelu na popis šírenia frontu počas frontálnej polymerizácie BADGE a konfrontované s údajmi o teplote na termočládkoch v reakčnej nádobe. Súhlas experimentom je výborný.

Výstupy v roku 2025 sa týkajú aj oblasti biosenzorov, kde sa charakterizovali multifraktálne vlastnosti zadržiavacích polymérnych matric na báze AESO/VDM biopolymérov pripravované fotopolymerizáciou. Využili sme pri tom našu techniku a skúsenosti získané pri štúdiu dimetakrylátov a epoxidov rôznymi kombinovanými technikami spojenými s PALS technikou. V štúdiu kryoprotektív sme prispeli voľnoobjemovými charakteristikami študovaných materiálov pomocou nášho spektrometrického zariadenia a DSC technikou.

32.) Konfigurácia viacerých laserov na doplnenie emisnej spektroskopie pre štúdie interakcií plazmy so stenou MW zosilnenie, fluorescencia a Raman (*Multi Laser Configuration to Complement Emission Spectroscopy for Plasma Wall Interaction Studies; MW Enhancement, Fluorescence and Raman*)

Zodpovedný riešiteľ:	Peter Šiffalovič
Trvanie projektu:	1.7.2023 / 30.6.2027
Evidenčné číslo projektu:	APVV-22-0548
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Univerzita Komenského v Bratislave - Fakulta matematiky, fyziky a informatiky
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 6242 €

Dosiahnuté výsledky:

V roku 2025 sme v spolupráci s hlavným riešiteľom uskutočnili analýzu pomocou Ramanovej spektroskopie na vrstvách deponovaných na komponentoch fúzneho zariadenia Joint European Torus (JET), ktoré sú v priamom kontakte s plazmou. Naše zistenia naznačujú, že Ramanova spektroskopia predstavuje komplementárnu metodiku k spektroskopii laserom indukovanej plazmy (LIBS). Integrácia týchto techník umožňuje komplexnejšie pochopenie chemického zloženia povrchových vrstiev, čo je kľúčové pre monitorovanie erózie materiálu vo fúzných reaktoroch.

33.) Mikrokapsuly na báze alginátu so zvýšenou stabilitou a biokompatibilitou pre

enkapsuláciu pankreatických ostrovčekov v liečbe cukrovky (*Alginate-based microcapsules with enhanced stability and biocompatibility for encapsulation of pancreatic islets in diabetes treatment*)

Zodpovedný riešiteľ: Peter Šiffalovič
Trvanie projektu: 1.7.2023 / 30.6.2027
Evidenčné číslo projektu: APVV-22-0565
Organizácia je koordinátorom projektu: nie
Koordinátor: Ústav polymérov SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 8413 €

Dosiahnuté výsledky:

V roku 2025 sme pokročili v systematickej charakterizácii polymérnych mikročastíc (beads) s využitím konfokálnej laserovej skenovacej mikroskopie (CLSM) a konfokálnej Ramanovej mikroskopie (CRM). Integrácia CLSM zobrazovania s vysokým rozlíšením a molekulárnej špecifickosti CRM umožňuje multidimenzionálnu analýzu vnútornej štruktúry častíc. Korelácia týchto súborov dát poskytuje kľúčové poznatky o mechanizmoch tvorby, ktoré určujú rôzne koncentračné profily. Tieto zistenia slúžia ako spätná väzba umožňujúca optimalizáciu a vývoj polymérnych riešení šitých na mieru pre konkrétne aplikácie.

34.) Pokročilé lítiové batérie s dlhou životnosťou (*Towards lithium based batteries with improved lifetime*)

Zodpovedný riešiteľ: Peter Šiffalovič
Zodpovedný riešiteľ v organizácii SAV: Peter Šiffalovič
Trvanie projektu: 1.7.2021 / 30.6.2025
Evidenčné číslo projektu: APVV-20-0111
Organizácia je koordinátorom projektu: nie
Koordinátor: Centrum pre využitie pokročilých materiálov SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 3739 €

Dosiahnuté výsledky:

V roku 2025 sme úspešne ukončili tento projekt, pričom sme dosiahli dva kľúčové míľniky. Po prvé, zdokonalili sme metodiku operando röntgenovej difrakcie (XRD), ktorá umožňuje v reálnom čase monitorovať fázové premeny v lítium-železo-fosfátových (LFP) katódach počas elektrochemického cyklovania. Po druhé, úspešne sme implementovali technológiu atómovej depozície vrstiev (ALD) na vytvorenie konformných, ultratenkých ochranných vrstiev na LFP materiáloch. Tieto vrstvy výrazne potláčajú parazitné reakcie, čím zvyšujú cyklickú stabilitu a prevádzkovú životnosť LFP batériových systémov novej generácie.

35.) Pokročilé monitorovanie tuhohlátkových batérií v reálnom čase s cieľom zvýšiť ich výkon (*Operando Tracking of Solid-State Batteries for Enhanced Performance*)

Zodpovedný riešiteľ: Peter Šiffalovič
Trvanie projektu: 1.9.2025 / 31.8.2029

Evidenčné číslo projektu: APVV-24-0321
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 15098 €

Dosiahnuté výsledky:

V počiatočnej fáze projektu sme zdokonalili metodiku pre operando XRD/GEIS charakterizáciu batérií s pevným elektrolytom (SSB). Optimalizovali sme operando cely s cieľom zvýšiť priepustnosť röntgenového žiarenia pri energii 22 keV (Ag Ka), čím sme zabezpečili lepší pomer signálu k šumu pre merania v laboratórnych podmienkach. Prvotná validácia sa uskutočnila na systéme NCM/LPSCI/InLi, pričom časovo rozlíšené XRD záznamy boli porovnané s referenčnými dátami zo synchrotrónu. Výsledky potvrdzujú, že v laboratórnom prostredí je možné získať vysokokvalitné štruktúrne informácie s časovým rozlíšením 300 sekúnd. Integrácia metódy operando GEIS navyše umožňuje sledovať vývoj elektrochemickej impedancie.

36.) Štúdium elektrónových vlastností 2D materiálov ultra presnými metódami kvantového Monte Carla (*Ultra high accuracy quantum Monte-Carlo study of electronic properties of 2D materials*)

Zodpovedný riešiteľ: Ivan Štich
Zodpovedný riešiteľ v organizácii SAV: Ivan Štich
Trvanie projektu: 1.7.2022 / 30.6.2025
Evidenčné číslo projektu: APVV-21-0272
Organizácia je koordinátorom projektu: nie
Koordinátor: Ústav informatiky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 937 €

Dosiahnuté výsledky:

37.) Nové zliatiny s viacerými základnými prvkami – dizajn, charakterizácia a vlastnosti (*Novel multi-principal element alloys – design, characterization and properties*)

Zodpovedný riešiteľ: Peter Švec
Trvanie projektu: 1.7.2021 / 30.6.2025
Evidenčné číslo projektu: APVV-20-0124
Organizácia je koordinátorom projektu: nie
Koordinátor: MTF STU Trnava
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 9357 €

Dosiahnuté výsledky:

Pomocouobecne platnej vyvinutej metodiky selekcie zložení a prípravy stredno a

vysokoentropických zliatin (HEA) s využitím širokej škály ochladzovacích rýchlostí roztavenej zliatiny (rýchlym ochladením taveniny, liatím do kokíl rôznych foriem – valcové, kónické) sme v spolupráci vyvinuli systém strednoentropických zliatin Co-Ni-Cu v matrici Zn. Z nich sme získali odstránením Zn pomocou tzv. vapor-phase de-alloying (VPD) pórovité viaczožkové 3d zliatiny prechodných kovov (Journal of Physical Studies a prednáška na konf. ISMANAM2025). Pomocou rtg. difrakcie sme ukázali, že v HEA skelete vzniká niekoľkých plošne orientovaných tuhých roztokov atómov prechodných kovov s malým množstvom ZnO. Ako prekursorové zliatiny boli použité tenké plechy vyrezané z objemových ingotov, ktoré odhalili výrazné výhody oproti rýchlochladeným páskam použitým v našej predchádzajúcej práci. Najmä zloženie prekursorových ingotov je predvídateľnejšie, a teda bližšie k nominálnemu, čo umožňuje presnejšiu kontrolu chemického zloženia výsledných pórovitých zliatin po odparení zinku. Vyrobené pórovité materiály Co-Ni-Cu majú otvorenú poróznu štruktúru, čo z nich robí veľmi sľubných kandidátov na použitie ako katalyzátory v elektrochemických procesoch. Ukázalo sa, že pórovité zliatiny bohaté na nikel vykazujú katalytickú aktivitu v procesoch HER (reakcia vývoja vodíka) a OER (reakcii vývoja kyslíka). Sľubný výsledok sa dosiahol aj v súvislosti s aktivitou pórovitej zliatiny s prevažujúcim obsahom Co v reakcii OER.

38.) Príprava a vlastnosti magneticky tvrdých a mäkkých materiálov bez kritických prvkov pre trvalo udržateľný rozvoj (*Processing and performance of critical-elements-free hard and soft magnetic materials for sustainable development*)

Zodpovedný riešiteľ:	Peter Švec
Trvanie projektu:	1.7.2024 / 31.12.2027
Evidenčné číslo projektu:	APVV-23-0281
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 22280 €

Dosiahnuté výsledky:

Dopracovali a publikovali sme (Metals, 2025, 15, 966) detailnú štúdiu zameranú na overenie uskutočniteľnosti prípravy magneticky tvrdých fáz typu L10 FeNi v binárnom Fe-Ni a ternárnom Fe-Ni legovanom tretím prvkom (cca 5 at.% Mo alebo Al). Vzorky boli pripravené konvenčným odlieváním, liatím do kónickej kokily a rýchlym ochladením na overenie atomárneho usporiadania fáz Fe-Ni vznikajúcich v dôsledku rôznych metód odlievania a termomechanického spracovania (žíhanie, žíhanie v magn. poli, mechanické mletie pri rôznych teplotách a ultrarýchle mletie pri kryoteplotách. Cieľom bolo preskúmanie širokej škály energetických podmienok usporiadavania Fe a Ni na vznik usporiadania L10. Výsledná štruktúra a usporiadanie spracovaných vzoriek boli detailne analyzované o.i. pomocou in-situ difrakcie synchrotrónového žiarenia, metód chemicky rozlíšenej rastrovacej transmisnej elektrónovej mikroskopie (STEM/EDS, HAADF, ABF, ADF, SAED) a zobrazovaním pomocou metódy diferenciálneho fázového kontrastu (DPC-STEM – differential phase contrast) využívajúcej 4-kvadrantový detektor ADF (annular dark-field detector) zobrazujúcej aj malé zmeny elektrických a magnetických polí. Aj napriek získaniu cenných detailných informácií o mikroštruktúre na atomárnej úrovni a o lokálnom rozložení elektrických a magnetických polí a ich zmenách pod vplyvom rôznych použitých mechanizmov deformácií a anihilácii takýchto deformačných efektov termomechanickým spracovaním sa nepodarilo získať indikáciu prítomnosti hľadanej fázy L10. Je to aj indikácia, že ani takéto široké rozsahy použitých deformácií nie sú postačujúce na zvýšenie mobility Fe a Ni atómov potrebnej na vznik hľadaného usporiadania.

Podobnú štúdiu sme vykonali (ako súčasť pobytu stážistu – doktoranda z IMDEA Nanociencia/UA

Madrid, konferenčné príspevky ISMANAM 2025, JEMS 2025) na rýchlochladených vzorkách Fe-Ni-P-C, kde sme pokúsili požadovaný efekt zvýšenia mobility Fe a Ni a “magnetické stvrdnutie” dosiahnuť riadením zmien štruktúry a žihacích parametrov; i napriek absencii dôkazov o existencii fázy L10 sa podarilo dosiahnuť zvýšené hodnoty koercivity a magnetizácie v nasýtení (55.7 kA/m a 76-95 Am²/kg).

39.) Perspektívne elektrónové spinové systémy pre budúce kvantové technológie (*Perspective electronic spin systems for future quantum technologies*)

Zodpovedný riešiteľ: Hana Vargová
Zodpovedný riešiteľ v organizácii SAV: Andrej Gendiar
Trvanie projektu: 1.7.2021 / 30.6.2025
Evidenčné číslo projektu: APVV-20-0150
Organizácia je koordinátorom projektu: nie
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 5970 €

Dosiahnuté výsledky:

Pomocou renormalizačných algoritmov tenzorových sietí sme analyzovali spinové magnetické systémy vo vertexovej reprezentácii. Klasifikovali sme fázové prechody, kde sme počítali von Neumannovu entropiu kvantovej previazanosti a neanalytické správania termodynamických veličín. Riešili sme vlastnosti základných stavov 1D a 2D coulombovských kvapalín, ako aj nábojovú príťažlivosť asymetricky nabitých platní.

Výsledky boli opublikované v 4 CC publikáciách a 4 arxiv.org príspevkoch.

40.) Experimentálne štúdium deformácie a elektromagnetických vlastností atómových jadier (*Experimental investigation of deformation and electromagnetic properties of atomic nuclei*)

Zodpovedný riešiteľ: Martin Venhart
Trvanie projektu: 1.7.2021 / 30.6.2025
Evidenčné číslo projektu: APVV-20-0532
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 18123 €

Dosiahnuté výsledky:

41.) Mnohonásobná tvarová koexistencia v nepárnych atómových jadrách

Zodpovedný riešiteľ: Martin Venhart
Trvanie projektu: 1.9.2025 / 30.6.2029
Evidenčné číslo projektu: APVV-24-0516
Organizácia je áno

koordinátorom projektu:

Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 48125 €

Dosiahnuté výsledky:

Projekt bol v začiatočnom štádiu riešenia.

Programy: Iné projekty

42.) Experimentálne skúmanie reakcií s významom pre pochopenie mechanizmu astrofyzikálneho p-procesu (*Experimental investigation of reactions with importance for understanding the astrophysical p-process mechanism*)

Zodpovedný riešiteľ: Iryna Timchenko
Trvanie projektu: 1.6.2025 / 31.5.2027
Evidenčné číslo projektu:
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:**Programy: SASPRO**

43.) Chrbticová sieť medzinárodnej kvantovej siete (*Backbone of an International Quantum Network*)

Zodpovedný riešiteľ: Djeylan Vincent Ceylan Aktas
Trvanie projektu: 1.10.2022 / 30.9.2025
Evidenčné číslo projektu: 1156/01/01
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 41334 €

Dosiahnuté výsledky:

The main objective to create and deploy a national test-bed for quantum communications has been achieved successfully: 1 lab-grade entanglement generator & 1 deployed 19" rack high TRL generator and 6-nodes QKD demonstration & on-going deployment of the latest hardware across the country: Košice-Prešov (fully deployed/running), Trnava-Bratislava (deployed/testing phase), Trnava-Nitra-Trencin (ongoing deployment). The impact of this exploitation & dissemination strategy helped bring attention the newly created research topic at IPSAS and many relevant stakeholders and policy makers were reached like the vice-prime minister and the president of Slovakia which were instrumental with the advent of the new metropolitan quantum network

designs.

44.) Sekvenčné merania a nekompatibilita v operačných teóriách (*Sequential measurements and incompatibility in operational theories*)

Zodpovedný riešiteľ: Leevi Ilmari Leppäjärvi
Trvanie projektu: 1.9.2022 / 31.8.2025
Evidenčné číslo projektu: 1372/03/01
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 2740 €

Dosiahnuté výsledky:

Programy: DoktoGrant

45.) Harmonic oscillator-inspired Particle Swarm Optimization applied to the Variational Quantum Eigensolver (*Harmonic oscillator-inspired Particle Swarm Optimization applied to the Variational Quantum Eigensolver*)

Zodpovedný riešiteľ: Yuri Chernyak
Trvanie projektu: 1.1.2025 / 31.12.2025
Evidenčné číslo projektu: APP0683
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 3000 €

Dosiahnuté výsledky:

Programy: Ministerstvo školstva, vedy, výskumu a športu

46.) Tvarová koexistencia v izotopoch zlata (*Shape coexistence in odd-Au isotopes*)

Zodpovedný riešiteľ: Martin Venhart
Trvanie projektu: 1.1.2022 / 31.12.2026
Evidenčné číslo projektu: áno
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: Ministerstvo školstva, výskumu, vývoja a mládeže SR: 10000 €

Dosiahnuté výsledky:

Programy: IMPULZ

47.) Emergentné javy a spintronika supravodičov v systémoch s redukovanou dimenziou (*Superconducting spintronics and emergent phenomena in low/dimensional superconductors*)

Zodpovedný riešiteľ: Denis Kochan
Trvanie projektu: 1.5.2022 / 30.4.2027
Evidenčné číslo projektu: IM-2021-26
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 110002 €

Dosiahnuté výsledky:

48.) Operačná kvantová termodynamika (*Operational Quantum Thermodynamics*)

Zodpovedný riešiteľ: Mohammad Hamed Mohammady
Trvanie projektu: 15.9.2024 / 14.9.2029
Evidenčné číslo projektu: IM-2023-79
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 105712 €

Dosiahnuté výsledky:

Programy: Plán obnovy EÚ

49.) Tensor Network States: Algorithms and Applications (*Tensor Network States: Algorithms and Applications*)

Zodpovedný riešiteľ: Jozef Genzor
Trvanie projektu: 1.7.2024 / 30.6.2026
Evidenčné číslo projektu: 09I03-03-V04-00682
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VAIA: 50678 €

Dosiahnuté výsledky:

V rámci projektu sme dosiahli metodické aj aplikačné výsledky v oblasti tensor network

algoritmov. Pripravili sme a sprístupnili 3 vedecké práce (arXiv:2506.17194; arXiv:2506.17053; arXiv:2003.09604).

Zverejnili sme aj otvorené numerické dáta k HOTRG výpočtom pre Isingov model na 3D fraktálnej mriežke (Zenodo DOI: 10.5281/zenodo.18099882).

Paralelne prebiehali práce na rukopise o 1D Hubbardovom modeli so spin-orbit coupling riešenom metódou DMRG (manuskript v príprave).

50.) Indefinite Order Beyond Low Energy (*Indefinite Order Beyond Low Energy*)

Zodpovedný riešiteľ: Natalia Salomé Móller
Trvanie projektu: 1.7.2024 / 30.6.2026
Evidenčné číslo projektu: 09I03-03-V04-00679
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VAIA: 64701 €

Dosiahnuté výsledky:

Opublikované 2 CC publikácie.

51.) Founding of A Quantum Computer group at IPSAS (*Founding of A Quantum Computer group at IPSAS*)

Zodpovedný riešiteľ: Martin Plesch
Trvanie projektu: 1.9.2024 / 31.8.2026
Evidenčné číslo projektu: 09I03-03-V04-00685
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VAIA: 47042 €

Dosiahnuté výsledky:

V rámci projektu sa činnosť výraznejšie rozbehla až v druhej polovici roka, keď nastúpili postdoktoranti, bola však brzdená vonkajšími okolnosťami. Viacero článkov bolo zaslaných na publikovanie, jeden už aj vyšiel.

52.) Štipendiá pre excelentných výskumníkov ohrozených vojnovým konfliktom na Ukrajine č. 1025/2022

Zodpovedný riešiteľ: Yuriy Plevachuk
Trvanie projektu: 1.1.2023 / 31.12.2025
Evidenčné číslo projektu: 09I03-03-V01-00047
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VAIA: 49602 €

Dosiahnuté výsledky:

53.) Štipendia pre excelentných výskumníkov ohrozených vojnovým konfliktom na Ukrajine č. 1026/2022

Zodpovedný riešiteľ: Iryna Timchenko
Trvanie projektu: 1.11.2022 / 31.10.2025
Evidenčné číslo projektu: 09I03-03-V01-00069
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VAIA: 15803 €

Dosiahnuté výsledky:

54.) Quantum entanglement network applications (Quantum entanglement network applications)

Zodpovedný riešiteľ: Mário Ziman
Trvanie projektu: 1.8.2024 / 31.7.2026
Evidenčné číslo projektu: 09I03-03-V04-00777
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VAIA: 84492 €

Dosiahnuté výsledky:

55.) Štipendia pre excelentných PhD. študentov a študentky (R1)

Zodpovedný riešiteľ: Mário Ziman
Trvanie projektu: 28.10.2023 /
Evidenčné číslo projektu: 09I03-03-V02-00015
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VAIA: 29036 €

Dosiahnuté výsledky:

Jedna publikácia vo Physics Reports. s názvom The future of secure communications: device independence in quantum key distribution. Spoločne s experimentálnym tímom bola akceptovaná jedna publikácia o slovenskej kvantovej komunikačnej infraštruktúre.

ADCA Vedecké práce v zahraničných karentovaných časopisoch – impaktovaných

- ADCA01 ABRAHAM, Jisha Annie - MANZOOR, Mumtaz - SHARMA, Ramesh - SRIVASTAVA, Vipul - KUMAR, Abhinav - AL-BURIAHI, M. S. - ALI, H. Elhosiny. Computational Prediction on the Stability, Opto-electronic and Thermoelectric Properties of Double Perovskite Compound $\text{Sr}_2\text{CrBiO}_6$: a First Principles Investigation. In Journal of Inorganic and Organometallic Polymers and Materials, 2025, vol. 35, no. 5, p. 3896-3912. (2024: 4.9 - IF, Q1 - JCR, 0.697 - SJR, Q2 - SJR). ISSN 1574-1443. Dostupné na: <https://doi.org/10.1007/s10904-024-03500-x>
- ADCA02 ABRAHAM, Jisha Annie - MANZOOR, Mumtaz - AL-ASBAHI, Bandar Ali - SHARMA, Ramesh. Tweaking the structural, mechanical, electronic and thermodynamic features of rare earth based anti-perovskite nitrides ANLu_3 (A = Al, Ga). In Materials Today Communications, 2025, vol. 43, no. 11, art. no. 111684. (2024: 4.5 - IF, Q2 - JCR, 0.788 - SJR, Q1 - SJR). ISSN 2352-4928. Dostupné na: <https://doi.org/10.1016/j.mtcomm.2025.111684>
- ADCA03 ABRAHAM, Jisha Annie - SAXENA, Arti - KUMBHAKAR, Jaidev - SRIVASTAVA, Anshuman - IBRAHIM, Ahmed Ahmed - EL-MELIGY, Mohammed - MANZOOR, Mumtaz - SHARMA, Ramesh. First Principles Calculation on the Physical Attributes of Cubic Perovskites SbXO_3 (X = Al and Ga) for Renewable Energy Devices Application. In Journal of Inorganic and Organometallic Polymers and Materials, 2025, vol. 35, no. 7, p. 5876-5889. (2024: 4.9 - IF, Q1 - JCR, 0.697 - SJR, Q2 - SJR). ISSN 1574-1443. Dostupné na: <https://doi.org/10.1007/s10904-025-03628-4>
- ADCA04 ALAYED, B. - PAGE, R. D. - JOSS, D. T. - UUSITALO, J. - QI, C. - BRISCOE, A. D. - ALAQEEL, M. A. M. - ANDEL, B. - ANTALIC, S. - AURANEN, K. - AYATOLLAHZADEH, H. - BADRAN, H. - BARBER, L. - BEETON, G. - BÍROVÁ, Monika - BOGDANOFF, V. - CUBISS, J. G. - CULLEN, D. M. - DEARY, J. - FORSBERG, U. - GRAHN, T. - GREENLEES, P. T. - HILTON, J. B. - ILLANA, A. - JOUKAINEN, H. - JUDSON, D. S. - JULIN, R. - JUTILA, H. - KEATINGS, J. M. - LABICHE, M. - LEINO, M. - LEWIS, M. C. - LOUKO, J. - LUOMA, M. - MARTEL, I. - MCCARTER, A. - MCKEE, P. P. - MOSAT, P. - NATHANIEL, S. N. - NEUVONEN, O. - O'DONNELL, D. - OJALA, J. - PAGE, C. A. A. - PLAZA, A. M. - PAKARINEN, J. - PAPADAKIS, P. - PARR, E. - PARTANEN, J. - RAHKILA, P. - ROMERO, J. - RUOTSALAINEN, P. - SANDZELIUS, M. - SARÉN, J. - SAYGI, B. - SMALLCOMBE, J. - SMITH, J. F. - SORRI, J. - SULLIVAN, C. M. - SZWEC, S. - TANN, H. - TOLOSA-DELGADO, A. - UUSIKYLÄ, E. - VENHART, Martin - WARING, L. J. - ZIMBA, G. Decay of a microsecond seniority 3 isomeric state in ^{155}Hf . In Physical Review C, 2024, vol. 110, no. 3, art. no. 034303. (2023: 3.2 - IF, Q2 - JCR, 1.223 - SJR, Q1 - SJR). ISSN 2469-9985. Dostupné na: <https://doi.org/10.1103/PhysRevC.110.034303>
- ADCA05 ALBUHAIRAN, Hassan Y. - MIHALKOVIČ, Marek - WIDOM, Michael. First-principles thermodynamics of Al_{10}V : An analytical treatment of localized anharmonic modes. In Physical Review B, 2025, vol. 112, no. 17, art. no. 174101. (2024: 3.7 - IF, Q2 - JCR, 1.303 - SJR, Q1 - SJR). ISSN 1550-235X. Dostupné na: <https://doi.org/10.1103/pmhq-zhl9>

- ADCA06 ALI, Muhammad - KHAN, Qaisar - DIN, Muhammad Faraz Ud - KASI, Jafar Khan - KASI, Ajab Khan - ALI, Asif - ULLAH, Sami**. Simulation-based optimization of CdS/CdTe solar cells incorporating MXene-enhanced SnO₂ buffer layer: insights from experimentally validated material properties. In Solar Energy, 2025, vol. 294, art. no. 113510. (2024: 6.6 - IF, Q2 - JCR, 1.314 - SJR, Q1 - SJR). ISSN 0038-092X. Dostupné na: <https://doi.org/10.1016/j.solener.2025.113510>
- ADCA07 AMARO-ALCALÁ, David. Characterisation of Individual Gates Using Twirling Circuits. In Open Systems and Information Dynamics, 2025, vol. 32, no. 4, art. no. 2550016 [15] p. (2024: 1.6 - IF, Q2 - JCR, 0.533 - SJR, Q2 - SJR). ISSN 1230-1612. Dostupné na: <https://doi.org/10.1142/S1230161225500167>
- ADCA08 ASLAM, Muhammad - WASEEM, Zubair - JAMIL, Muhammad - MANZOOR, Mumtaz** - ZATSEPIN, Anatoly - ALMEER, Rafa - KUMAR, Yedluri Anil - SHARMA, Ramesh. Effect of Anion on Optoelectronic and Thermoelectric Properties Cubic Double Perovskites A₂(Sr, Ba)WMgO₆ for Low-Cost Energy Technologies: A Computational Simulation Study. In Journal of Inorganic and Organometallic Polymers and Materials, 2025, vol. 35, no. 4, p. 2440-2455. (2024: 4.9 - IF, Q1 - JCR, 0.697 - SJR, Q2 - SJR). ISSN 1574-1443. Dostupné na: <https://doi.org/10.1007/s10904-024-03376-x>
- ADCA09 AYYANUSAMY, Poongodi - VÉGSÖ, Karol - ŠIMON, Erik - HALAHOVETS, Yuriy - DEVAUX, Didier - AGUADERO, Ainara - VILLALUENGA, Irune - ARTAL, Raul - CORRAL, Oier Pajuelo - NÁDAŽDY, Peter - RAZA, Muhammad Arslan - HILHORST, Jan - DE HEER, Ton - JERGEL, Matej - ŠIFFALOVÍČ, Peter**. Real-time Phase Monitoring of Solid-State Electrolytes: A Glovebox-Integrated In-situ Wide-Angle X-ray Scattering. In Energy Technology, 2025, vol. 13, no. 12, art. no. 2500591. (2024: 3.6 - IF, Q3 - JCR, 0.84 - SJR, Q2 - SJR). ISSN 2194-4288. Dostupné na: <https://doi.org/10.1002/ente.202500591>
- ADCA10 BAGALE, Rupali - YESUPATHAM, Manova Santhosh - HAMBLI, Abdellah - SAHU, Subhankar** - RITZENTHALER, Christophe - AMIRI, Mandana - SPAGNOLO, Sandro - KÁLOSI, Anna - BASINI, Francesco - HAPPY, Henri - BOUKHERROUB, Rabah - KNOLL, Wolfgang - HIANIK, Tibor - MAJKOVÁ, Eva - ŠIFFALOVÍČ, Peter - CORRADINI, Roberto - MONTAIGNE, David - WOITRAIN, Eloise - HVIZDOŠOVÁ, Adriana, Annušová** - SZUNERITS, Sabine. Point-of-care applicability of graphene-based field effect transistors upon modification with a pyrene-tagged antifouling copolymer: Application for cTnI sensing in blood. In ACS Sensors, 2025, vol. 10, no. 9, p. 7072-7083. (2024: 9.1 - IF, Q1 - JCR, 1.757 - SJR, Q1 - SJR). ISSN 2379-3694. Dostupné na: <https://doi.org/10.1021/acssensors.5c02191>
- ADCA11 BARTOŠ, Erik** - DUBNIČKA, Stanislav - DUBNIČKOVÁ, Anna Zuzana - HOLKA, Lukáš. Prediction of Some Meson Physical Quantities by Analytic Continuation from Time-Like to Space-Like Region. In International Journal of Theoretical Physics, 2025, vol. 64, no. 12, art. no. 324. (2024: 1.7 - IF, Q3 - JCR, 0.276 - SJR, Q3 - SJR). ISSN 0020-7748. Dostupné na: <https://doi.org/10.1007/s10773-025-06197-x>
- ADCA12 BERONSKÁ, Naďa - GEBURA, Marek** - DVORÁK, Tomáš - ČAVOJSKÝ, Miroslav - HÁJOVSKÁ, Zuzana - ŠVEC, Peter Jr. - ŠVEC, Peter - KARAFFA, Lukáš - POSPÍŠILOVÁ, Eva. Performance evaluation and oxide layer characterization of self-protective Cu/W–La₂O₃ composite electrodes prepared by gas pressure infiltration for continuous arcing in air. In Journal of Physics D: Applied Physics, 2025, vol. 58, art. no. 185307. (2024: 3.2 - IF, Q2 - JCR, 0.65 - SJR, Q1 - SJR). ISSN 0022-3727. Dostupné na: <https://doi.org/10.1088/1361-6463/adc316>
- ADCA13 BERTOLLA, Luca** - TAVERI, Gianmarco - MÁCOVÁ, P. - SOTIRIADIS, K. -

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ADCA09

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ADCA19

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ADCA21

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AFG Abstrakty príspevkov zo zahraničných konferencií

- AFG01 SAHOO, Prangya Parimita - GÜNEREN, Alper - HUDEC, Boris - MIČUŠÍK, Matej - LENČEŠ, Zoltán - SIFFALOVIC, P. - FRÖHLICH, Karol. Improved properties of Li-ion battery electrodes protected by Al₂O₃ and ZnO ultrathin layers prepared by atomic layer deposition. In ECS Meeting Abstracts, 2022, vol. MA2022-02, art. no. 1136. ISSN 2151-2043.
Citácie:
1. [1.1] SALIMI, P. - GOTTARDI, G. - MORAIS, W.G. - BARTALI, R. - LAIDANI, N. - MACCHI, E.G. *Improving Lithium-Ion Battery Performance: Nano Al₂O₃ Coatings on High-Mass Loading LiFePO₄ Cathodes via Atomic Layer Deposition. In BATTERIES-BASEL*. ISSN 2313-0105, SEP 2024, vol. 10, no. 9, art. no. 304. Dostupné na: <https://doi.org/10.3390/batteries10090304>, Registrované v: WOS

BDF Odborné práce v ostatných domácich časopisoch

- BDF01 VRŠANSKÝ, Peter**. Late Mesozoic cockroaches s. l. from the Karabastau Formation in Kazakhstan. 700 s. Dostupné na internete: https://geo.sav.sk/files/vrsansky/Vrsansky_2024.pdf
Citácie:
1. [1.1] XIA, Shuang - SENDI, Hemen - ZHANG, Xiaofang - XIAO, Chuantao - LUO, Cihang. *A new cockroach Maculosala circularis gen. et sp. n. (Blattaria: Corydiidae) from mid-Cretaceous Kachin amber of northern Myanmar. In*

*PALAEONTOGRAPHICA ABTEILUNG A-PALAOZOOLOGIE-
STRATIGRAPHIE*, 2024, vol. 329, no. 1-2, pp. 9-18. ISSN 0375-0442. Available
on: <https://doi.org/10.1127/pala/2024/0155>, Registrované v: WOS

Príloha A-4

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

Mgr. Andrej Gendiar, PhD.

Názov semestr. predmetu: Kvantové simulácie a výpočty (FMFI.KTF/3-FTM-207/22)

Počet hodín za semester: 13

Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Fakulta matematiky, fyziky a informatiky

Ing. Vojtech Nádaždy, CSc.

Názov semestr. predmetu: Nanotechnologie

Počet hodín za semester: 4

Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, Inštitút nukleárneho a fyzikálneho inžinierstva

doc. RNDr. Martin Plesch, PhD.

Názov semestr. predmetu: Mechanika

Počet hodín za semester: 6

Názov katedry a vysokej školy: Univerzita Mateja Bela v Banskej Bystrici, Katedra fyziky FPV

doc. RNDr. Martin Plesch, PhD.

Názov semestr. predmetu: Práca s nadanými študentmi

Počet hodín za semester: 2

Názov katedry a vysokej školy: Univerzita Mateja Bela v Banskej Bystrici, Katedra fyziky FPV

doc. RNDr. Martin Plesch, PhD.

Názov semestr. predmetu: Termodynamika a štatistika

Počet hodín za semester: 5

Názov katedry a vysokej školy: Univerzita Mateja Bela v Banskej Bystrici, Katedra fyziky FPV

RNDr. Ondrej Šauša, CSc.

Názov semestr. predmetu: Atómová a jadrová fyzika

Počet hodín za semester: 24

Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra jadrovej chémie

RNDr. Ondrej Šauša, CSc.

Názov semestr. predmetu: Jadrové metódy vo výskume a praxi

Počet hodín za semester: 24

Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra jadrovej chémie

doc. Mgr. Mário Ziman, PhD.

Názov semestr. predmetu: Introduction to Quantum Information Processing

Počet hodín za semester: 39

Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, x

doc. Mgr. Mário Ziman, PhD.

Názov semestr. predmetu: Programming quantum computers

Počet hodín za semester: 26

Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, x

doc. Mgr. Mário Ziman, PhD.

Názov semestr. predmetu: Quantum computing

Počet hodín za semester: 26

Názov katedry a vysokej školy: Fakulta informatiky a informačných technológií STU, x

doc. Mgr. Mário Ziman, PhD.

Názov semestr. predmetu: Quantum measurement theory

Počet hodín za semester: 39

Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, x

Semestrálne cvičenia:

Semináre:

Terénne cvičenia:

Individuálne prednášky:

prof. Ing. Štefan Luby, DrSc.

Názov semestr. predmetu: Prednáška elektronické nosy a diskusné fórum

Počet hodín za semester: 3

Názov katedry a vysokej školy: Žilinská univerzita v Žiline, Katedra fyziky

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	Vladimír Bužek	2			Djeylan Vincent Ceylan Aktas	4
					Vladimír Bužek	6
					Andrej Herzán	4
					Vladislav Matoušek	4
					Peter Rapčan	2
Brazília					Gilberto Ferreira Borges	9
					Natalia Salomé Móller	25
					Natalia Salomé Móller	9
Česko					Ijaz Ahamed Mohammad	1
					Ijaz Ahamed Mohammad	1
					Martin Plesch	1
					Martin Plesch	1
					Anton Repko	3
					Mário Ziman	1
Čína					Lubomir Martinovič	96
Fínsko					Andrej Herzán	6
					Andrej Herzán	5
					Andrej Herzán	6
					Samgeeth Puliyl	8

					Michal Sedlák	1
					Magdaléna Šolcová	86
					Magdaléna Šolcová	57
					Mário Ziman	1
Francúzsko					Ardra Ajitha Vijayan	10
					Djeylan Vincent Ceylan Aktas	10
					Djeylan Vincent Ceylan Aktas	2
					Djeylan Vincent Ceylan Aktas	9
					Andrej Gendiar	5
					Adriana Hvizdošová Annušová	6
					Adriana Hvizdošová Annušová	3
					Adriana Hvizdošová Annušová	5
					Dušan Janičkovič	4
					Martin Plesch	4
					Samiullah Samiullah	3
					Ladislav Šamaj	14
					Ladislav Šamaj	24
					Peter Švec	4
India					Ieline Ahmed	5
Japonsko					Djeylan Vincent Ceylan Aktas	5
					Andrej Gendiar	13
					Andrej Gendiar	13
					Roman	13

					Krčmár	
					Roman Krčmár	13
					Mohammad Hamed Mohammady	18
					Natalia Salomé Móller	13
Nemecko					Poongodi Ayyanusamy	6
					Denis Kochan	6
					Denis Kochan	5
					Mohammad Hamed Mohammady	7
					Yuriy Plevachuk	5
Portugalsko					Adriana Hvizdošová Annušová	1
Rakúsko					Djeylan Vincent Ceylan Aktas	1
					Seyed Arash Ghoreishi	1
					Adriana Hvizdošová Annušová	2
					Adriana Hvizdošová Annušová	1
					Adriana Hvizdošová Annušová	1
					Natalia Salomé Móller	2
					Matúš Sedlák	1
					Matúš Sedlák	1
					Matúš Sedlák	21
					Aneesha Senthilkumar	1
Rusko					Ivan Andreevič Kovalev	13

					Ivan Andreevič Kovalev	23
Slovinsko					Irena Gejdoš Janotová	3
					Dušan Janičkovič	3
					Peter Švec	3
Švajčiarsko					Djeylan Vincent Ceylan Aktas	3
					Andrej Herzán	3
					Andrej Herzán	3
					Andrej Herzán	9
					Andrej Herzán	4
					Andrej Herzán	2
					Vladislav Matoušek	21
					Peter Rapčan	1
					Magdaléna Šolcová	9
					Magdaléna Šolcová	9
					Iryna Timchenko	3
					Iryna Timchenko	8
					Martin Venhart	4
					Sebastian Vielhauer	3
					Sebastian Vielhauer	9
Švédsko					Vlastimil Boháč	6
Taiwan					Jozef Genzor	33
					Denis Kochan	9
					Denis Kochan	9
					Denis Kochan	9
					Denis Kochan	83

					Denis Kochan	57
					Denis Kochan	112
Taliansko					Andrej Herzán	5
					Andrej Herzán	2
					Yuriy Plevachuk	13
					Matúš Sedlák	5
					Matúš Sedlák	4
					Magdaléna Šolcová	4
Ukrajina					Taras Kavetskyy	36
					Taras Kavetskyy	40
					Taras Kavetskyy	86
					Taras Kavetskyy	59
USA					Andrej Gendiar	11
					Marek Mihalkovič	33
Veľká Británia	Andrej Herzán	3			Andrej Gendiar	5
					Muhammad Arslan Raza	4
					Soham Sau	3
					Martin Venhart	5
Počet vyslaní spolu	2	5			105	1364

(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
Fínsko					Hanwool Lee, PhD.	9
					Leevi Leppäjärvi, PhD.	9
					MSc. Andrés Damián	9

					Munoz Moller	
					MSc. Tim Achenbach	9
Francúzsko					Marco Túlio Quintino	6
Ghana					Esther Kusi	84
Grécko					Nikolaos Kollas, PhD.	31
Honduras					Isabel Adriana Toledo	146
India					Ekta Panwar	92
					Ekta Panwar	30
Irán					Fareshte Shahbeigi	62
Mexiko					Carlos Pineda	1
					David Amaro-Alcalá	91
Poľsko					PhD. Ekta Panwar	30
Rakúsko					Lina Vandree	1
					Marta Maria Marchese	1
					Ofek Bengyat	2
Španielsko					Carlos Iglesias Fernández-Cuevas, doktorand	98
Ukrajina					Prof. Olexandr Roik, DrSc.	91
Veľká Británia					Dr. Trevor Welsh	2
Počet prijatí spolu					20	804

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

Krajina	Názov konferencie	Meno pracovníka	Počet dní
Belgicko	COST Academy - leadership Workshop 2025	Natalia Salomé Móller	2
Brazília	Quantum Information Workshop 2025	Mohammad Hamed Mohammady	12
Bulharsko	QPL 2025 Conference	Mohammad Hamed Mohammady	7
Česko	Seminár TAS 2025	Igor Mat'ko	2

	Thermophysics 2025	Vlastimil Boháč	3
Dánsko	EQTC2025	Mário Ziman	4
	Summer School QMATH Masterclass on Representation	Ivana Miháliková	9
Fínsko	Conference Lakeside Quantum Dialogue 2025	Michal Sedlák	4
		Mário Ziman	4
	Lakeside Quantum Dialogue 2025	Samgeeth Puliyil	4
Francúzsko	Engine 2025 Winter School	Poongodi Ayyanusamy	7
	ICOQC2025	Ijaz Ahamed Mohammad	8
		Ijaz Ahamed Mohammad	8
	ICQ16	Marek Mihalkovič	8
	IEEE CAMA 2025	Djeylan Vincent Ceylan Aktas	9
	Konferencia Aquumics	Andrej Gendiar	5
		Azadeh Ghannadan	5
		Roman Krčmár	5
		Matej Moško	5
	Quantum Matter 2025	Gilberto Ferreira Borges	6
	QUANTUMMatter 2025	Djeylan Vincent Ceylan Aktas	4
		Saeid Salari	5
	QUEST-IS 2025	Djeylan Vincent Ceylan Aktas	4
	Spring School Symmetry and Measurement in Quantum	Miquel Jorquera Riera	38
	Summer School on MAQI	Kartik Nanasaheb Kakade	7
Grécko	QCI Days 2025	Younes Benamara	5
		Mária Surovcová	4
	QCI Days 2025 Conference	Gilberto Ferreira Borges	6
	QCI Days Athene 2025	Djeylan Vincent Ceylan Aktas	5
	QCI Days Conference	Saeid Salari	4
	Workshop Kefalonia Foundations	Kartik Nanasaheb Kakade	7
Holandsko	IWOTA 2025	Konrad Jan Szymański	6
	Prvý workshop WE Heraeus-Lorentz	Denis Kochan	8
		Ivan Andreevič Kovalev	8
	Q-EXPO 2025	Djeylan Vincent Ceylan Aktas	3
	Q-expo 2025	Gilberto Ferreira Borges	5

India	Conference Theory of Quantum Computation 2025	Ricardo Rivera Cardoso	10
	ISQIC 2025	Ieline Ahmed	3
Japonsko	STS forum	Martin Venhart	8
	ICPA20	Taras Kavetskyy	14
		Ondrej Šauša	14
	IEEE QNCNC 2025	Djeylan Vincent Ceylan Aktas	3
	IPERO25	Nad'a Mrk'vková	8
	OSP2025	Ieline Ahmed	13
	QRF 2025	Mohammad Hamed Mohammady	5
Nemecko	834. WE-Heraeus-Seminár	Denis Kochan	5
	88th Annual Conference of the DPG and DPG Spring M	Konrad Jan Szymański	6
	CRYO 2025	Ivan Klbik	6
	DPG FallMeeting 2025	Yuri Chernyak	6
	Free Fall of Quantum at ZARM	Natalia Salomé Móller	4
	GISAXS 2025	Karol Végso	5
	International conference: 2 nd DPG Fall Meeting	Konrad Jan Szymański	5
	QSFF 2025	Natalia Salomé Móller	4
Poľsko	Conference Foundations 2025	Miquel Jorquera Riera	6
	SMP56	Mário Ziman	5
Rakúsko	Annual geMOS konsortium meeting 2025	Peter Staňo	1
	Anton Zeilinger Birthday Symposium	Vladimír Bužek	4
	GISS 2025	Natalia Salomé Móller	5
	Quantum Technology Summer School 2025	Kartik Nanasaheb Kakade	4
	Summer School Quantum Technologies 2025	Gilberto Ferreira Borges	4
		Natalia Salomé Móller	2
Rumunsko	RoNaQCI Festival	Djeylan Vincent Ceylan Aktas	5
Rusko	The XXIX Interuniversity Scientific and Technical	Ivan Andreevič Kovalev	7
Singapur	QTD 2025 Conference	Mohammad Hamed Mohammady	7
Španielsko	30th International Conference on Low	Denis Kochan	15

	Temperature P		
	LAM19	Yuriy Plevachuk	7
	YQIS 2025 Conference	Ardra Ajitha Vijayan	7
		Soham Sau	7
Švajčiarsko	Annual geMOS konsortium meeting 2025	Peter Staňo	5
	Annual geMOS konsortium meeting 2025	Peter Staňo	3
Taiwan	International Conference Tensor Network States	Jozef Genzor	7
		Roman Krčmár	7
	Workshop TCECM 2025	Denis Kochan	2
Taliansko	FISMAT2025	Denis Kochan	6
	IQSA 2025 Conference	Mohammad Hamed Mohammady	9
	RQI-N Conference	Natalia Salomé Móller	9
Turecko	Conference BIOMATSEN 2025	Taras Kavetskyy	8
Ukrajina	NANO-2025	Yuriy Plevachuk	5
Veľká Británia	FQC 2025	Soham Sau	5
	NuPECC meeting	Martin Venhart	2
Spolu	68	80	509

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

Skratky použité v tabuľke C:

STS forum - 22nd Annual Meeting of the Science and Technology in Society forum
30th International Conference on Low Temperature P - 30th International Conference on Low Temperature Physics
834. WE-Heraeus-Seminár - 384. Workshop - Heraeus-Seminar : Superconducting Quantum Circuits Meet Quantum Materials
88th Annual Conference of the DPG and DPG Spring M - 88th Annual Conference of the DPG and DPG Spring Meeting
Annual geMOS konsortium meeting 2025 - Annual geMOS konsortium meeting 2025
Anton Zeilinger Birthday Symposium - Anton Zeilinger Birthday Symposium
Conference Theory of Quantum Computation 2025 - Conference Theory of Quantum Computation 2025
Conference BIOMATSEN 2025 - 10th BIOMATSEN 2025
Conference Foundations 2025 - 22th European Conference on Foundations of Physics
Conference Lakeside Quantum Dialogue 2025 - Conference Lakeside Quantum Dialogue 2025
COST Academy - leadership Workshop 2025 - COST Academy - leadership Workshop 2025
CRYO 2025 - Workshop on Cryo Electronics Devices 2025
DPG FallMeeting 2025 - DPG FallMeeting 2025
Engine 2025 Winter School - Engine 2025 Winter School
EQTC2025 - European Quantum Technologies Conference 2025
FISMAT2025 - FISMAT2025
FQC 2025 - Foundations of Quantum Computing 2025
Free Fall of Quantum at ZARM - Free Fall of Quantum at ZARM
GISAXS 2025 - International Workshop GISAXS 2025
GISS 2025 - Global Implementation Support Symposium 2025
ICOQC2025 - International Conference on Quantum Computing
ICPA20 - 20th International Conference of Positron Annihilation

ICQ16 - The 16th International Conference on Quasickrystals
 IEEE CAMA 2025 - International conference on Antena Measurements and Applications
 IEEE QNCNC 2025 - International Conference on Quantum Communications Network and Computing
 International Conference Tensor Network States - International Conference Tensor Network States
 International conference: 2 nd DPG Fall Meeting - International conference: 2 nd DPG Fall Meeting
 IPERO25 - IPERO25
 IQSA 2025 Conference - IQSA 2025 Conference
 ISQIC 2025 - International Symposium on Quantum Information and Communication 2025
 IWOTA 2025 - International Workshop on Operator Theory and its Applications
 Konferencia Aquimics - International conference: Advanced Quantum Materials for Magnetic Cooling and Quantum Information Science
 Lakeside Quantum Dialogue 2025 - Lakeside Quantum Dialogue 2025
 LAM19 - The 19th International Conference on Liquid and Amorphous Metals
 NANO-2025 - 13th International Research and Practice Conference "Nanotechnology and Nanomaterials"
 NuPECC meeting - NuPECC meeting
 OSP2025 - Okinawa School in Physics 2025
 Prvý workshop WE Heraeus-Lorentz - Prvý workshop WE Heraeus-Lorentz
 Q-EXPO 2025 - Quantum expo 2025
 QCI Days 2025 - Conference QCI Days 2025
 QCI Days 2025 Conference - QCI Days 2025 Conference
 QCI Days Athene 2025 - QCI Days Athene 2025
 QCI Days Conference - QCI Days Conference
 QPL 2025 Conference - 22nd International Conference on Quantum Physics and Logic
 QRF 2025 - Quantum Reference Frame Workshop
 QSFF 2025 - Quantum Systems in Free Fall
 QTD 2025 Conference - Annual Quantum Thermodynamics Conference
 Quantum Technologi Summer School 2025 - Quantum Technologi Summer School 2025
 Quantum Information Workshop 2025 - Quantum Information Workshop 2025
 Quantum Matter 2025 - The 5th edition of the Quantum Matter International Conference and Exhibition
 QUANTUMMatter 2025 - 5th edition of the Quantum Matter International Conference and Exhibition
 QUEST-IS 2025 - QUEST-IS 2025
 RoNaQCI Festival - RoNaQCI Festival
 RQI-N Conference - Relativistic Quantum Information Conference
 Seminár TAS 2025 - Termoanalytický seminár 2025
 SMP56 - 56th Symposium on Mathematical Physics
 Spring School Symmetry and Measurement in Quantum - Spring School Symmetry and Measurement in Quantum Field Theory
 Summer School on MAQI - Summer School of Matematical Apects on Quantum Information
 Summer School QMATH Masterclass on Representation - Summer School QMATH Masterclass on Representation Theory in Quantum Information Science
 Summer School Quantum Technologies 2025 - Summer School Quantum Technologies 2025
 The XXIX Interuniversity Scientific and Technical - The XXIX Interuniversity Scientific and Technical Conference of Students, Postgraduates, and Young Specialists named after E.V.Armensky
 Thermophysics 2025 - Thermophysics 2025
 Workshop Kefalonia Foundations - Workshop Kefalonia Foundations
 Workshop TCECM 2025 - 2025 Intenational Symposium of Taiwan Consortium of Emergent Crystalline Materials
 YQIS 2025 Conference - 8 th International Conference for young Quantum Information Scientists

Príloha A-6

Vedecko-popularizačná činnosť pracovníkov organizácie

Meno	Spoluautori	Typ¹	Názov	Miesto zverejnenia	Dátum alebo počet za rok
Mgr. Andrej Gendiar, PhD.		PB	HMOTA - tajomný kvantový svet	Vysoká škola výtvarných umení, Drotárska ceta 44, Bratislava	21.10.2025
Mgr. Andrej Gendiar, PhD.		PB	Kvantová fyzika v zakrivenom priestore	Ekonomická fakulta UMB, Cesta na amfiteáter 1, Banská Bystrica	5.11.2025
Mgr. Andrej Gendiar, PhD.		PB	Kvantová fyzika v zakrivenom priestore	Gymnázium Ivana Kraska, P. Hostinského 3, Rimavská Sobota	6.11.2025
Mgr. Andrej Gendiar, PhD.		PB	Kvantová fyzika v zakrivenom priestore	Krajská hviezdáreň a planetárium Maximiliána Hella, Dukelských hrdinov 1298/21/A, Žiar nad Hronom	13.11.2025
Dr. rer. nat. Ing. Andrej Liptaj, PhD.	A. Repko, R. Turanský, K. Vegső	iné	Európska noc vedy	https://www.nocvedy.sk/bratislava/	26.9.2025
Dr. rer. nat. Ing. Andrej Liptaj, PhD.	M. Bírová, R. Krčmár, A. Repko, R. Turanský	iné	My sme SAV	https://vedanadosah.vtisir.sk/podujatie/my-sme-sav-2025/	13.6.2025
prof. Ing. Štefan Luby, DrSc.		PB	Deň fotoniky 2025 - Electronic nose	https://fyzika.uniza.sk/den-fotoniky-2025/	25.11.2025
prof. Ing. Štefan Luby, DrSc.		TL	Neperiodická kométa SAV, o J. Lánikovi	Extra Plus	2025
prof. Ing. Štefan Luby, DrSc.		TL	Akademik Ján Plesník storočný	Aktuality SAV	23.4.2025
prof. Ing. Štefan Luby, DrSc.		TL	Igor Túnyi - desať rokov po predčasnom odchode	Bradlo	10.3.2025
prof. Ing. Štefan Luby, DrSc.		PB	RPP 16, míľnik na ceste SAV	Konferencia Extrapolácie	18.11.2025
prof. Ing. Štefan Luby, DrSc.		TL	Život v spore s dejinami, Dušan Čaplovič	Literárny týždenník č. 7 - 8, 2025, s. 15	20.3.2025
RNDr. Nad'a Mrkývková, PhD.		IN	Podcast SAV	https://www.youtube.com/watch?v=FxAi0t1t9yA	28.3.2025
RNDr. Nad'a Mrkývková, PhD.		TV	Veda a Technika s Gregorom Marešom	https://www.stvr.sk/tv/elevizia/archiv/14067/568990	6.12.2025
doc. RNDr. Martin Plesch, PhD.		RO	Host' Rádia Regina Zápas	https://www.stvr.sk/radio/archiv/1603/2512820	18.3.2025
doc. RNDr. Martin Plesch, PhD.		TV	Ranné Noviny JOJ	https://videoportal.joj.sk/ranne-noviny/epizoda/141028-ranne-noviny	26.6.2025

RNDr. Ondrej Šauša, CSc.		PB	Popularizačná prednáška o pozitrónoch na Gymnáziu GAMČA	Gymnázium Groslingova, Bratislava	18.6.2025
doc. Mgr. Mário Ziman, PhD.	Daniel Nagaj, Daniel Reitzner, Vladimír Bužek,	PB	Kvantové zápletky	https://www.qute.sk/event/wqd-2025/	14.4.2025
Dr. rer. nat. Ing. Andrej Liptaj, PhD.	Poongodi Ayyanusamy, Irena Gejdoš Janotová, Yuriy Halahovets, Adriana Hvizdošová Annušová, Anna Kálosi, Naďa Mrkývková, Martin Plesch, Aneesha Senthil Kumar, Peter Švec	iné	(týž)Deň otvorených dverí na Fyzikálnom Ústave SAV, v. v. i.	https://fu.sav.sk/dod/	1
doc. Mgr. Mário Ziman, PhD.		TL	Kvantový svet - séria článkov v časopise Quark	Quark	12
doc. Mgr. Mário Ziman, PhD.	Vladimír Bužek, Andrej Gendiar, Gilberto Borges	iné	Kvanta - záujmový krúžok pre stredoškôľakov	https://www.qute.sk/sk/kvanta/	24

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

Príloha A-7

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

Domáce ocenenia

Ocenenia SAV

Majková Eva

Zlatá medaila SAV

Oceňovateľ: Vedecká rada SAV

Mrkývková Nad'a, Šiffalovič Peter, Végső Karol

Ocenenie špičkových publikácií v kategórii Špičkové časopisecké publikácie

Oceňovateľ: SAV

Opis: *Pizza Oven Processing of Organohalide Perovskites (POPOP): A Simple, Versatile and Efficient Vapor Deposition Method* *Advanced Energy Materials*, Vol. 14, no. 10 (2024), art. no. 2303423

Šiffalovič Peter

Ocenenie špičkových publikácií v kategórii Nature Index publikácie

Oceňovateľ: SAV

Opis: *Skúmanie štruktúrnych, optických a transportných vlastností lítium-interkalovaných tenkých vrstiev MoS₂: Odhaľovanie vplyvu porúch, ktorá vyšla vo vedeckom časopise Applied Physics Letters.*

Kochan Denis

Ocenenie špičkových publikácií v kategórii Nature Index publikácie

Oceňovateľ: SAV

Opis: *Emergentné korelované fázy v romboedrickom trojvrstvovom graféne indukované spin-orbitálnymi a výmennými interakciami v dôsledku proximity efektov uverejnená vo vedeckom časopise Physical Review Letters.*

Iné domáce ocenenia

Hvizdošová Annušová Adriana

Cena M. R. Štefánika 2025

Oceňovateľ: Ministerstva školstva, vedy, výskumu a športu SR; Francúzske veľvyslanectvo na Slovensku

Opis: *diplom za najväčší prínos v oblasti bilaterálnej francúzsko-slovenskej vedeckej spolupráce*

Luby Štefan

Cena Fides et Ratio

Oceňovateľ: Konferencia biskupov Slovenska

Opis: *Medaila priemeru 7 cm, diplom*

Luby Štefan

Cena Literárneho fondu za knihu 40. výstupov na Olymp

Oceňovateľ: Literárny fond SR

Opis: *Diplom*

Luby Štefan

Pamätný list časopisu Quark pri jeho 30. výročí

Oceňovateľ: Časopis Quark

Opis: Diplom

Švec Peter

Cena za vedu

Oceňovateľ: Slovenská fyzikálna spoločnosť

Opis: pamätná plaketa za vedecký prínos vo fyzike

Venhardt Martin

Medaila SFS

Oceňovateľ: Slovenská fyzikálna spoločnosť

Opis: medaila ako ocenenie celkového prínosu pre fyziku na Slovensku

Medzinárodné ocenenia

Uvádzajte v štruktúre: názov ocenenia, udeľujúca inštitúcia, meno a priezvisko ocenennej osoby.