

Ústav experimentálnej fyziky SAV, v. v. i.



**Správa o činnosti organizácie SAV
za rok 2022**

Košice
január 2023

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1. Základné údaje o organizácii

1.1. Kontaktné údaje

Názov: Ústav experimentálnej fyziky SAV, v. v. i.

Riaditeľ: doc. RNDr. Zuzana Gažová, DrSc.

Zástupca riaditeľa: RNDr. Alena Juríková, CSc.

Vedecký tajomník: doc. RNDr. Slavomír Gabáni, PhD.

Predseda vedeckej rady: RNDr. Jozef Kačmarčík, PhD.

Člen Snemu SAV: doc. RNDr. Slavomír Gabáni, PhD.

Adresa: Watsonova 47, 040 01 Košice

<http://uef.saske.sk/>

Tel.: 055/7922201

E-mail: sekr@saske.sk

Názvy a adresy organizačných zložiek a detašovaných pracovísk:

Organizačné zložky: nie sú

Detašované pracoviská:

- **Laboratórium kozmickej fyziky na Lomnickom štíte**
059 60 Tatranská Lomnica, tel.: 052/4467 071

Vedúci organizačných zložiek a detašovaných pracovísk:

Organizačné zložky: nie sú

Detašované pracoviská:

- **Laboratórium kozmickej fyziky na Lomnickom štíte**
Mgr. Ronald Langer

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	135	84	51	19	9	126	104.96	76.13	8.04
Vedeckí pracovníci	86	55	31	9	7	80	68.18	68.18	0
Odborní pracovníci VŠ (výskumní a vývojoví zamestnanci ¹)	18	15	3	9	1	17	10.43	7.95	0
Odborní pracovníci VŠ (ostatní zamestnanci ²)	9	2	7	1	1	8	7.68	0	4.5
Odborní pracovníci ÚS	7	2	5	0	0	6	5.33	0	3.54
Ostatní pracovníci	15	10	5	0	0	15	13.34	0	0

¹ odmeňovaní podľa 553/2003 Z.z., príloha č. 5² odmeňovaní podľa 553/2003 Z.z., príloha č. 3 a č. 4

K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2022 (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 31.12.2022 (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 administratívne, správe a údržbe budov, upratovačiek, vodičov a pod.

M, Ž – muži, ženy

Tabuľka 1b Štruktúra vedeckých pracovníkov (kmeňový stav k 31.12.2022)

Rodová skladba	Pracovníci s hodnosťou				Vedeckí pracovníci v stupňoch		
	DrSc.	CSc./PhD.	prof.	doc.	I.	II.a.	II.b.
Muži	9	46	3	7	16	28	11
Ženy	1	32	0	3	1	19	11

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	11	6.3	6	4.2	3	2.5	7	6.2	9	7.3	3	3.0	6	5.5	8	6.8	13	9.7
Ženy	3	3.0	3	2.1	5	5.0	3	3.0	6	6.0	4	4.0	4	4.0	1	1.0	0	0.0

A - Prepočet bez zohľadnenia úväzkov zamestnancov

B - Prepočet so zohľadnením úväzkov zamestnancov

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2022

	Kmeňoví zamestnanci	Vedeckí pracovníci	Riešitelia projektov
Muži	50.3	51.4	49.3
Ženy	46.3	43.5	44.9
Spolu	48.8	48.5	48.0

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

Zloženie Vedeckej rady ÚEF SAV, v. v. i.:

RNDr. Jozef Kačmarčík, PhD. – predseda (Centrum fyziky nízkych teplôt)
 RNDr. Pavol Farkašovský, DrSc. (Oddelenie teoretickej fyziky)
 RNDr. Diana Fedunová, PhD. (Oddelenie biofyziky)
 Ing. Martina Koneracká, CSc. (Oddelenie fyziky magnetických javov)
 RNDr. Ivan Králik, CSc. (Oddelenie subjadrovej fyziky)
 RNDr. Marián Sedlák, DrSc. (Oddelenie experimentálnej chemickej fyziky)
 RNDr. Ivan Škorvánek, CSc. (Oddelenie aplikovaného magnetizmu a nanomateriálov)
 RNDr. Natália Tomašovičová, CSc. (Oddelenie fyziky magnetických javov)
 RNDr. Mária Zentková, CSc. (Oddelenie fyziky magnetických javov)

Externí členovia:

doc. RNDr. Erik Čižmár, PhD. (Ústav fyzikálnych vied, PF UPJŠ, Košice)
 Prof. RNDr. Miroslav Grajcar, DrSc. (Fyzikálny ústav SAV, v. v. i., Bratislava)
 doc. Ing. Karel Saksl, DrSc. (Ústav materiálového výskumu SAV, v. v. i., Košice)
 Prof. RNDr. Ján Ziman, CSc. (Katedra fyziky, FEI TU Košice)

Zloženie Správnej rady ÚEF SAV, v. v. i.:

doc. RNDr. Zuzana Gažová, DrSc. – predsedkyňa (riaditeľka)
 RNDr. Pavol Bobík, PhD. (Oddelenie kozmickej fyziky)
 doc. RNDr. Slavomír Gabáni, PhD. (Centrum fyziky nízkych teplôt)
 RNDr. Alena Juríková, CSc. (Oddelenie fyziky magnetických javov)
 RNDr. Pavol Stríženec, CSc. (Oddelenie subjadrovej fyziky)

Zloženie Dozornej rady ÚEF SAV, v. v. i.:

Mgr. Martin Venhart, PhD. – predseda (Slovenská akadémia vied)
 doc. Ing. Iveta Vasková, PhD. (FMMR TU Košice)
 Ing. Romana Jurkiewiczová (Slovenská akadémia vied)

International Advisory Board (vytvorená na odporúčanie Meta-panelu po akreditácii v r. 2016).

Členovia IAB boli schválení VR ÚEF 22. 9. 2017:

Prof. RNDr. Rupert Leitner, DrSc.- Institute of Particle and Nuclear Physics, faculty of Mathematics and Physics Charles University, V Holešovičkách 2, 180 00 Praha, Česká republika

Prof. MUDr. Pavel Martásek, DrSc.- BIOCEV - Biotechnology and Biomedicine Center of the Academy of Sciences and Charles University, Průmyslová 595, 252 50 Vestec, Česká republika

Prof. Dr. hab. inž. Marek Przybylski - AGH University of Science and Technology; Academic Centre for Materials and Nanotechnology, A. Mickiewicza Av. 30, 30-059 Kraków, Poland

Zloženie Atestačnej komisie ÚEF SAV, v. v. i.:

RNDr. Ivan Škorvánek, CSc. – predseda (Oddelenie aplikovaného magnetizmu a nanomateriálov)

RNDr. Pavol Farkašovský, DrSc. (Oddelenie teoretickej fyziky)

doc. RNDr. Karol Flachbart, DrSc., akademik US Slovenska (Centrum fyziky nízkych teplôt)

Prof. RNDr. Peter Samuely, DrSc., akademik US Slovenska (Centrum fyziky nízkych teplôt)

RNDr. Pavol Stríženec, CSc. (Oddelenie subjadrovej fyziky)

Externí členovia:

RNDr. Ján Gálik, CSc. (Biomedicínske centrum SAV, v. v. i., Košice)

doc. RNDr. František Lofaj, DrSc. (Ústav materiálového výskumu SAV, v. v. i., Košice)

Prof. RNDr. Stanislav Vokál, DrSc. (Ústav fyzikálnych vied, PF UPJŠ)

Dňa 1. 1. 2022 zaniklo Oddelenie fyziky kovov (viď. nový Organizačný poriadok ÚEF SAV, v. v. i.).

2. Vedecká činnosť

2.1. Domáce projekty

Tabuľka 2a Domáce projekty riešené v roku 2022

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	22	4	162666	162666	-	-	7683	-
2. Projekty APVV	8	6	-	-	255562	191056	-	64051
3. Projekty EŠIF/OP ŠF	1	2	-	-	-	63500	-	282402
4. Projekty SASPRO, MoRePro, IMPULZ	1	0	108747	108747	-	-	-	-
5. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)	3	0	5297	5297	-	-	-	-

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

Tabuľka 2b Domáce projekty podané v roku 2022

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2022	-	6	5
2. Projekty výziev EŠIF podané r. 2022	Bratislava	-	-
	Regióny	-	-

APVV výzva 2022:

[1] APVV-22-0060 **Magneticky modifikované textilie**. 2023-2027. Zodpovedný riešiteľ: Peter Kopčanský

[2] APVV-22-0115 **Nano-funkcionalizácia kvapalín pre olejové transformátory**. 2023-2027. Zodpovedný riešiteľ: Michal Rajňák

[3] APVV-22-0128 **Vnútro bunková akumulácia a protinádorová aktivita prírodných látok konjugovaných s magnetickými nanonosičmi**. 2023-2027. Zodpovedný riešiteľ za ÚEF: Martina Koneracká

- [4] APVV-22-0197 **Nové Pickeringové emulzné systémy na báze magnetických častíc.** 2023-2027. Zodpovedný riešiteľ za ÚEF: Matúš Molčan
- [5] APVV-22-0217 **Automatizácia radiačných modelov.** 2023-2025. Zodpovedný riešiteľ: Pavol Bobík
- [6] APVV-22-0232 **Funkčné materiály v tvare drôtu s význačnými fyzikálnymi vlastnosťami.** 2023-2027. Zodpovedný riešiteľ za ÚEF: Pavel Diko
- [7] APVV-22-0439 **Programovateľné samo-usporiadanie fibríl do nanoštruktúrovaných materiálov pre bioanalytické aplikácie.** 2023-2027. Zodpovedný riešiteľ: Katarína Šipošová
- [8] APVV-22-0498 **Preagregačná a oligomérna konformácia neusporiadaného tau proteínu.** 2023-2026. Zodpovedný riešiteľ za ÚEF: Zuzana Gažová
- [9] APVV-22-0517 **Analýza vesmírneho počasia s využitím meraní komického žiarenia na Zemi.** 2023-2025. Zodpovedný riešiteľ: Ján Kubančák
- [10] APVV-22-0540 **Skúmanie a korelovanie transportných a optických vlastností vybraných topologických polokovov.** 2023-2026. Zodpovedný riešiteľ za ÚEF: Zuzana Vargaestoková
- [11] APVV-22-0598 **Viaczložkové ligandy ako modulátory cieľov spojených s patogenézou Alzheimerovej choroby.** 2023-2027. Zodpovedný riešiteľ: Zuzana Gažová

VEGA výzva 2022:

- [1] VEGA 2/0044/23 **Teoretické štúdium vlastností geometricky a interakčne frustrovaných magnetických systémov.** Zodpovedný riešiteľ: Eva Jurčišinová
- [2] VEGA 2/0049/23 **Funkcionalizované magnetické nanočastice pre MRI zobrazovanie distribúcie liečiva v pľúcach pri experimentálnom syndróme akútnej respiračnej tiesne (ARDS).** Zodpovedný riešiteľ: Martina Koneracká
- [3] VEGA 2/0071/23 **Mezoškálové javy v systémoch polymérnych a nepolymérnych látok a metodológia ich skúmania.** Zodpovedný riešiteľ: Marián Sedlák
- [4] VEGA 2/0076/23 **Diskrétna gravitácia, kvantové javy a ich aplikácia na rôzne druhy fyzikálnej reality.** Zodpovedný riešiteľ: Richard Pinčák
- [5] VEGA 2/0148/23 **Magneticky mäkké nanokryštalické materiály pripravené nekonvenčnými technikami tepelného spracovania.** Zodpovedný riešiteľ: Ivan Škorvánek
- [6] VEGA 1/0104/23 **Pórovité koordinačné polyméry pre enviromentálne aplikácie (ECOMOF).** Zodpovedný riešiteľ za ÚEF: Veronika Kuchárová

Bilaterálne, multilaterálne a iné projekty:

- [1] M-ERA-NET **Application of electromagnetic field in transdermal drug delivery.** Zodpovedný riešiteľ za ÚEF: Zuzana Gažová
- [2] JRP SAS-Taiwan **Interactions of nanoparticles with amyloid fibrils: from therapy to nanomaterials.** Zodpovedný riešiteľ za ÚEF: Zuzana Gažová
- [3] MOBILITY SAS-CNR Taliansko **Multifunctional Nanomaterials in Treating the Accumulation of Amyloids: A potential theranostics strategy.** Zodpovedný riešiteľ za ÚEF: Andrea Antošová
- [4] MOBILITY SAS-PAN Poľsko **Azobenzenes as potential Alzheimer's theranostic agents.** Zodpovedný riešiteľ za ÚEF: Zuzana Bednáriková
- [5] MOBILITY SAV-MAV Maďarsko **Exploring correlated and topological phases in layered van der Waals quantum.** Zodpovedný riešiteľ za ÚEF: Pavol Szabó
- [6] MOBILITY SAV-PAV **Structural, magnetic, and thermal investigations of novel functional materials,** Zodpovedný riešiteľ za ÚEF: Mária Zentková
- [7] COST OC-2022-1-25648 **Static Technologies Investigation Linking Latest Nondepletable Energy Sources Systems (STILLNESS).** Člen tímu za SR: Ivan Škorvánek
- [8] COST OC-2022-1-26067 **Magnetic Particle Imaging for next-generation theranostics and medical research (NexMPI).** Člen tímu za SR: Vlasta Závišová
- [9] COST OC-2022-1-26017 **EuMINE-European Materials Informatics Network.** Člen tímu za SR: Hana Vargová

- [10] Doktograf APP0345 **Characterizations of Shape Memory Microwires for Micro Actuator and Micro Sensor**. Zodpovedný riešiteľ: Limpat Nulandaya
- [11] Doktograf APP0381 **Funkcionalizované magnetické nanočastice pre MRI zobrazovanie distribúcie liečiva v pľúcach pri akútnom syndróme respiračnej tiesne (ARDS)**. Zodpovedný riešiteľ: Radka Sobotová
- [12] Doktograf APP0396 **Frustrované kovové magnetické systémy**. Zodpovedný riešiteľ: Július Bačkai

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2022

Tabuľka 2c Medzinárodné projekty riešené v roku 2022

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 Horizont 2020 a Horizont Európa	0	1	-	-	-	-	-	198818
2. Projekty ERA.NET, ESA, JRP	6	7	31250	31250	53935	53935	79816	11140
3. Projekty COST	0	4	-	-	-	-	-	-
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	2	1	-	-	152500	152500	2500	13242
5. Projekty v rámci medzivládnych dohôd	0	0	-	-	-	-	-	-
6. Bilaterálne projekty MAD, Mobility, Open Mobility	13	0	4675	4675	-	-	-	-
7. Bilaterálne projekty ostatné	0	1	-	-	-	-	-	-
8. Podpora MVTS z národných zdrojov okrem SAV (APVV a iné)	2	0	-	-	4525	4525	-	-
9. SAS-UPJŠ ERC Visiting Fellowship Grants	0	0	-	-	-	-	-	-
10. Iné projekty	1	0	-	-	-	-	-	-

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

2.2.2. Medzinárodné projekty Horizont Európa podané v roku 2022

Tabuľka 2d Počet projektov Horizont Európa v roku 2022

	A	B
Počet podaných projektov Horizont Európa	0	2

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

[1] **HORIZON EUROPE, call: HORIZON-EIC-2022-PATHFINDEROPEN-01. Continuous Ultra Rapid Annealing Method for Producing New Type of High Performance Soft Magnetic Nanocomposites (CURAHIT).** Zodpovedný riešiteľ za SR: Ivan Škorvánek

[2] **HORIZON DIGITAL EUROPE, call: EU DIGITAL 2021 DEPLOY NATIONAL. Slovak Quantum Communication Infrastructure (skQCI 101091548).** Zodpovedný riešiteľ za ÚEF: Peter Skyba

Údaje k domácim a medzinárodným projektom sú uvedené v Prílohe B.

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

2.3. Výber najvýznamnejších výsledkov vedeckej práce organizácie v roku 2022

Slúži aj na výber výsledkov do výročnej správy SAV. Každý výsledok má byť charakterizovaný stručným, všeobecne zrozumiteľným popisom – maximálne 1000 znakov + 1 obrázok; bibliografický údaj uvádzajte rovnako ako v zozname publikačnej činnosti, vrátane IF. Nadpis by mal vystihnúť prínos a význam výsledku – podľa možnosti by nemal byť zredukovaný na názov/nadpis publikačného výstupu.

2.3.1. Výsledky na báze základného výskumu

Vplyv mechanického napätia na magnetizačné procesy v amorfnej zliatine FINEMET

Projekty: VEGA 2/0171/19, VEGA 1/0143/20, VEGA 1/0250/21, APVV-19-0369

Riešitelia: J. Kováč

V práci bol sledovaný vplyv mechanického namáhania na magnetizačné procesy v amorfnej kovovej zliatine. Pre túto štúdiu boli vybrané rýchlo kalené amorfné kovové pásky s nominálnym zložením $\text{Fe}_{73.5}\text{Cu}_1\text{Nb}_3\text{Si}_{13.5}\text{B}_9$ (prekurzor FINEMET). Pri rôznych stupňoch mechanického namáhania vzorky boli pozorované významné rozdiely v magnetických vlastnostiach študovaného materiálu. Pôvod týchto efektov vyplýva zo zmien v dynamike doménových stien. Tieto zmeny sú spôsobené predovšetkým zmenami ich základných vlastností (hrúbka, energia na jednotku plochy steny domény), ako aj zmenami vlastností oblastí vnútorného napätia, ktoré sú prekážkami ich pohybu. Vplyv namáhaných oblastí bol demonštrovaný analýzou vplyvu mechanického zaťaženia na vnútorný demagnetizačný faktor.

[1] L. Novák, **J. Kováč:** *Influence of mechanical stress on magnetization processes in amorphous FINEMET alloy*

Journal of Alloys and Compounds 909 (2022) 164846, IF = 6.371 , Q1P

2.3.2. Výsledky aplikačného typu

Nanokvapaliny s fullerénom C₆₀ a magnetickými nanočasticami pre aplikácie v transformátoroch

Projekty: VEGA 2/0011/20, APVV-18-0160

Riešitelia: M. Rajňák, K. Paulovičová, M. Timko, P. Kopčanský

Cieľom predkladaného výskumu je zvýšiť chladiacu účinnosť GTL transformátorového oleja pomocou nano-funkcionalizácie feritovými nanočasticami a fullerénom C₆₀. Chladiacu účinnosť funkcionalizovaného oleja sme testovali v jednofázovom transformátore s nominálnym výkonom 5 kVA. Bolo dokázané, že prítomnosť feritových nanočastíc v oleji má za následok zníženie oteplenia transformátora len pri nízkej magnetizácii nasýtenia suspenzie (0,05 Am²/kg). Vysoká magnetizácia nasýtenia (6,4 Am²/kg) a následné magnetické interakcie nanočastíc s magnetickým poľom transformátora vedie k blokovaniu prúdenia oleja a k nárastu oteplenia transformátora [1]. Výrazný pokles oteplenia transformátora až o 8 °C bol dosiahnutý pri aplikácii oleja s fullerénom C₆₀ (0.01 % w/V). C₆₀ v GTL oleji tiež zvyšuje jeho elektrické preskokové napätie až o 17 %, čo môže byť zapríčinené vysokou elektrónovou afinitou fullerénu a schopnosťou potlačiť foto-ionizáciu na čele strímra [2].

[1] **M. Rajňák**, M. Franko, **K. Paulovičová**, M. Karpets, K. Parekh, R. Upadhyay, J. Kurimský, B. Dolník, R. Cimbala, P. Havran, **M. Timko**, **P. Kopčanský**: *Effect of ferrofluid magnetization on transformer temperature rise*

Journal of Physics D: Applied Physics 55 (2022) 345002, IF = 3.409, Q1P

[2] **M. Rajňák**, J. Kurimský, **K. Paulovičová**, M. Franko, B. Dolník, R. Cimbala, **M. Timko**, **P. Kopčanský**, V. Girman, M. Lisnichuk: *Dielectric and thermal performance of a C60-based nanofluid and a C60-loaded ferrofluid*

Physics of Fluids 34 (2022) 107106, IF = 4.980, Q1P

2.3.3. Výsledky na báze medzinárodnej spolupráce

Misia BepiColombo: Prvé pozorovanie vnútornej južnej magnetosféry Merkúra

Projekty: VEGA 2/0094/10, VEGA 2/0059/13, VEGA 2/0077/16, VEGA 2/0087/19

Riešitelia: J. Baláž

Merkúr, najbližšia planéta k našej materskej hviezde, intenzívne interaguje s jej korpuskulárnou aj elektromagnetickou radiáciou, čo predstavuje z fyzikálneho hľadiska veľmi zaujímavé dynamické prostredie. Južná vnútorná magnetosféra planéty bola doposiaľ neprebádaným regiónom, keďže nebola skúmaná predošlými misiami MARINER-10 a MESSENGER. Sonda ESA BepiColombo letí k Merkúru od októbra 2018 a na orbite okolo neho zaparkuje v decembri 2025, čomu predchádza 6 gravitačných asistencií - blízkych preletov popri tejto planéte. Počas prvého preletu 1. októbra 2021 sonda preletela južným regiónom vo výške 199 km, kde iónové senzory PICAM a MIPA vedeckého komplexu SERENA zaregistrovali unikátne dáta o distribúcii a dynamike iónov. Misia BepiColombo je objektom spolupráce európskej vesmírnej agentúry ESA a japonskej JAXA v hodnote 2 mld €. Aparatúra SERENA (*Search for Exospheric Refilling and Emitted Natural Abundances*) je objektom spolupráce 34 inštitúcií (vrátane ÚEF SAV, v. v. i.) zo 16 krajín.

[1] S. Orsini, A. Milillo, H. Lichtenegger, ... , **J. Baláž**, et al.: *Inner southern magnetosphere observation of Mercury via SERENA ion sensors in BepiColombo mission*

Nature Communications 13 (2022) 7390, IF = 17.69, Nature Index

2.4. Publikačná činnosť (zoznam je uvedený v prílohe C)

Tabuľka 2e Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	Počet v r. 2022/ doplňky z r. 2021
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)	129 / 11
10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus (ADMA, ADMB, ADNA, ADNB)	2 / 0
11. Vedecké práce v ostatných domácich časopisoch (ADFA, ADFB)	0 / 0
12. Vedecké práce v ostatných zahraničných časopisoch (ADEA, ADEB)	1 / 0
13. Vedecké práce v domácich recenzovaných zborníkoch (AEDA)	0 / 0
14. Vedecké práce v zahraničných recenzovaných zborníkoch (AECA)	0 / 0
15. Publikované príspevky na domácich vedeckých konferenciách (AFB, AFD)	23 / 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)	1 / 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. 2021 (zdroj JCR) <i>Počet článkov / doplnky</i>	79 / 7	26 / 3	17 / 0	9 / 1	131 / 11
Podľa SJR z r. 2021 (zdroj Scimago) <i>Počet článkov / doplnky</i>	72 / 6	49 / 5	10 / 0	0 / 0	131 / 11

Tabuľka 2g Ohlasy

OHLASY	Počet v r. 2021/ doplnky z r. 2020
Citácie vo WOS (1.1, 2.1)	5282 / 49
Citácie v SCOPUS (1.2, 2.2)	132 / 11
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)	1 / 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	68
Prednášky a vývesky na národných vedeckých podujatiach	25

Medzinárodné vedecké podujatia:

[1] P. Bobík, *Space Weather's Influence to Cases of Hospitalization in Slovakia Between 2007-2014*, 23. - 27. 1. 2022, American Meteorological Society's 19th Conference on Space Weather, Houston (TX), USA (prednáška)

[2] B. Spodniaková, *Bis-coumarin homodimers—potential inhibitors of amyloid aggregation of globular and intrinsically disordered proteins*, 19. - 23. 2. 2022, Biophysical Society Annual Meeting, Moscone Center, SanFrancisco, USA (výveska)

[3] I. Strhárský, *Is there a relation between the heliospheric magnetic field, cosmic rays and atmospheric electricity?*, 21. - 25. 2. 2022, STP-15 symposium, India (prednáška)

[4] P. Kopčanský, *Magnets for magnetic drug targeting*, 28. 2. - 4. 3. 2022, 17th Workshop Molecular Acustics, Relaxation and Calorimetric Methods (50th Jubilee Winter School on Wave and Quantum Acoustics), SZCZYRK, Poland (prednáška)

[5] M. Timko, *Dielectric properties of transformer oils for transformer technology*, 28. 2. - 4. 3. 2022, 17th Workshop Molecular Acustics, Relaxation and Calorimetric Methods (50th Jubilee Winter School on Wave and Quantum Acoustics), SZCZYRK, Poland (prednáška)

[6] Š. Mackovjak, *Towards explanation of airglow variation by ML techniques*, 21. - 25. 3. 2022, Machine Learning in Heliophysics, Boulder (CO), USA (prednáška)

[7] J. Bednarčík, *Structural aspects of creep induced magnetic anysotropy in Fe based nanocrystalline alloy*, 27. - 30. 3. 2022, 11th International Conference on Residual Stresses (ICRS 11), Nancy, France (výveska)

- [8] J. Bačkai, *Angle-resolved magnetoresistance in strongly anisotropic quantum magnet TmB_4* , 27. 3. - 1. 4. 2022, Fermi Surface - Novel Quantum Phases and Superconductivity in SCES, Des Houches, France (výveska)
- [9] M. Hnatič, *Magnetic dynamo as spontaneous symmetry breaking*, 24. - 30. 4. 2022, International Workshop on Nuclear and Particles Physics, Almaty, Kazachstan (prednáška)
- [10] K. Zmorayová, *Microstructure of YBCO bulk samples grown via 45°-twin-seeds*, 27. - 29. 4. 2022, METALLOGRAPHY & Fractography'22, Nový Smokovec, Slovakia (výveska)
- [11] V. Kuchárová, *Microstructural analysis of EuBCO bulks with and without holes*, 27. - 29. 4. 2022, METALLOGRAPHY & Fractography'22, Nový Smokovec, Slovakia (výveska)
- [12] J. Nemčík, *Heavy quarkonium coherent photoproduction on nuclei*, 2. - 6. 5. 2022, DIS 2022: XXIX. International Workshop on Deep Inelastic Scattering and Related Subjects, Madrid, Spain (prednáška)
- [13] Š. Mackovjak, *Feasibility study of data-driven Autonomous Service for Prediction of Ionospheric Scintillations (ASPIS)*, 10. - 12. 5. 2022, ESA SWE Service Network Workshop, Darmstadt, Germany (prednáška)
- [14] P. Bobík, *The evaluation of crustal field influence to geomagnetic cut-off rigidities*, 23. - 27. 5. 2022, 24th EGU General Assembly, Vienna, Austria (prednáška)
- [15] R. Sobotova, *Functionalized nanoparticles for MRI of drug distribution in lungs*, 5. - 10. 6. 2022, XXVIII. International Conference on Coordination and Bioinorganic Chemistry, KC Smolenice, Slovakia (výveska)
- [16] B. Pastirčák, *Baikal-GVD needs in CORSIKA8*, 12. - 15. 6. 2022, CORSIKA 8 Air-Shower Simulation and Development Workshop, Heidelberg, Germany (prednáška)
- [17] M. Hnatič, *Higher order calculations in field theoretic model of directed percolation*, 14. - 17. 6. 2022, 15th Chaotic Modeling and Simulation International Conference CHAOS 2022, Athens, Greece (prednáška)
- [18] E. Jurčišinová, *Influence of a small scale anisotropy on anomalous scaling in Kraichnan model of turbulence in the two loop*, 14. - 17. 6. 2022, 15th Chaotic Modeling and Simulation International Conference CHAOS 2022, Athens, Greece (výveska)
- [19] J. Bednarčík, *Structural Investigation of Mechanically Alloyed Co Fe Ta B Mo Alloy*, 22. - 24. 6. 2022, 27th International Conference on Applied Physics of Condensed Matter (APCOM 2022), Štrbské Pleso, Slovakia (výveska)
- [20] J. Bednarčík, *Thermal Stability of Fe Based BMGs Investigated by High Energy X ray Scattering*, 22. - 24. 6. 2022, 27th International Conference on Applied Physics of Condensed Matter (APCOM 2022), Štrbské Pleso, Slovakia (výveska)
- [21] H. Vargová, *Enhancement of the quantum and thermal entanglement in the mixed spin $--(1/2, S)$ Heisenberg dimer*, 28. - 29. 6. 2022, 1st Workshop on Perspective Electron Spin Systems for Future Quantum Technologies, Kosice (prednáška)

- [22] N. Tomašovičová, *The Change of Magnetic Properties of Fluids Based on Liquid Crystals Doped with Magnetic Particles*, 3. - 7. 7. 2022, 12th Pamir International Conference on Fundamental and Applied MHD, Krakow, Poland (prednáška)
- [23] K. Flachbart, *Dynamic charge stripes and inhomogeneous superconductivity in $Lu_xZr_{1-x}B_{12}$ with Jahn-Teller instability*, 17. - 22. 7. 2022, 13th International Conference on Materials and Mechanisms of Superconductivity (M^2S), Vancouver, Canada (prednáška)
- [24] K. Flachbart, *Search for Superconductivity in High Entropy Alloy Hydrides and Transition Metal Oxy-hydrides*, 17. - 22. 7. 2022, 13th International Conference on Materials and Mechanisms of SC (M^2S), Vancouver, Canada (výveska)
- [25] J. Bačkai, *Angle-resolved magnetoresistance in strongly anisotropic quantum magnet TmB_4* , 24. - 29. 7. 2022, International Conference on Strongly Correlated Electron Systems (SCES), Amsterdam, Netherlands (výveska)
- [26] M. Orendáč, *Quantum oscillations in heat capacity and charge transport of the unconventional insulator SrB_6* , 24. - 29. 7. 2022, International Conference on Strongly Correlated Electron Systems (SCES), Amsterdam, Netherlands (výveska)
- [27] K. Šipošová, *The effect of nanomaterials on protein amyloid aggregation: an in vitro experimental study*, 25. - 27. 7. 2022, 1st PhytoAPP Workshop (RISE H2020 MSCA RISE 2020), Maastricht, Netherlands (prednáška)
- [28] P. Bobík, *Cosmic ray modulation error for 2D SDE SOLARPROP model*, 25. - 29. 7. 2022, 27th European Cosmic Ray Symposium, Nijmegen, Netherlands (výveska)
- [29] P. Bobík, *COR System Error Estimation*, 25. - 29. 7. 2022, 27th European Cosmic Ray Symposium, Nijmegen, Netherlands (výveska)
- [30] M. Človečko, *Spontaneous emergence of phase coherence of oscillating electric dipoles in quartz piezo-resonators at low temperatures*, 18. - 24. 8. 2022, 29th International Conference on Low Temperature Physics (LT29), Sapporo, Japan (výveska)
- [31] K. Flachbart, *Dynamic charge stripes and magnetic phase diagrams in antiferromagnets $Tm_{1-x}Yb_xB_{12}$* , 18. - 24. 8. 2022, 29th International Conference on Low Temperature Physics (LT29), Sapporo, Japan (výveska)
- [32] S. Gabáni, *Electron phase separation and magnetic phase diagrams in heavy fermion antiferromagnets $Ce_xLa_{1-x}B_6$* , 18. - 24. 8. 2022, 29th International Conference on Low Temperature Physics (LT29), Sapporo, Japan (výveska)
- [33] K. Goliaš, *Temperature Dependent Instabilities of Duffing Resonator Based on Sn-whisker at Low Temperatures*, 18. - 24. 8. 2022, 29th International Conference on Low Temperature Physics (LT29), Sapporo, Japan (výveska)
- [34] J. Kačmarčík, *Anomalies in the Quantum Limit of the Weyl Semimetal TaAs*, 18. - 24. 8. 2022, 29th International Conference on Low Temperature Physics (LT29), Sapporo, Japan (výveska)
- [35] O. Podopryhora, *Plug-in & cool" Nuclear Demagnetization Stage for Cryogen-Free Dilution Refrigerators*, 18. - 24. 8. 2022, 29th International Conference on Low Temperature Physics (LT29), Sapporo, Japan (výveska)

- [36] G. Pristáš, *Metal-insulator transition and electron phase separation effect in charge transport of the Kondo-insulator YbB_{12}* , 18. - 24. 8. 2022, 29th International Conference on Low Temperature Physics (LT29), Sapporo, Japan (výveska)
- [37] Z. Vargaštoková, *Modulation calorimetry in dilution temperatures*, 18. - 24. 8. 2022, 29th International Conference on Low Temperature Physics (LT29), Sapporo, Japan (výveska)
- [38] J. Kubacková, *Viscosity measurements using flexible microstructures*, 22. - 26. 8. 2022, Regional Biophysics Conference, Pecs, Hungary (výveska)
- [39] J. Kubacková, *The viscoelastic behaviour of photopolymer nanowires experiments and modeling*, 22. - 26. 8. 2022, Regional Biophysics Conference, Pecs, Hungary (výveska)
- [40] K. Goliaš, *Temperature Dependent Instabilities of Duffing Resonator Based on Sn-whisker at Low Temperatures*, 25. - 28. 8. 2022, International Conference on Ultra Low Temperature Physics (LT29), Otaru, Japan (výveska)
- [41] M. Človečko, *Spontaneous emergence of phase coherence of oscillating electric dipoles in quartz piezo-resonators at low temperatures*, 25. - 28. 8. 2022, International Conference on Ultra Low Temperature Physics (LT29), Otaru, Japan (prednáška)
- [42] O. Podopryhora, *Plug-in & cool” Nuclear Demagnetization Stage for Cryogen-Free Dilution Refrigerators*, 25. - 28. 8. 2022, International Conference on Ultra Low Temperature Physics (LT29), Otaru, Japan (výveska)
- [43] K. Flachbart, *Impact of hydrostatic and uniaxial pressure on the anisotropic quantum magnet TmB_4 with a frustrated Shastry-Sutherland lattice*, 5. - 9. 9. 2022, 21st International Symposium on Boron, Borides and Related Materials (ISBB), Paris, France (prednáška)
- [44] S. Gabáni, *Penetration of magnetic field and the pinning strength in superconducting YB_6* , 5. - 9. 9. 2022, 21st International Symposium on Boron, Borides and Related Materials (ISBB), Paris, France (prednáška)
- [45] K. Flachbart, *Dynamic charge stripes and inhomogeneous superconductivity in $\text{Lu}_x\text{Zr}_{1-x}\text{B}_{12}$ dodecaborides*, 5. - 9. 9. 2022, 21st International Symposium on Boron, Borides and Related Materials (ISBB), Paris, France (výveska)
- [46] S. Gabáni, *Anisotropy of charge carriers scattering in HoB_{12} , ErB_{12} and TmB_{12} antiferromagnets*, 5. - 9. 9. 2022, 21st International Symposium on Boron, Borides and Related Materials (ISBB), Paris, France (výveska)
- [47] G. Pristáš, *Influence of pressure and thickness on superconductivity in high entropy alloys thin films*, 5. - 8. 9. 2022, 59th EHPRG Meeting on High Pressure Science and Technology, Uppsala, Sweden (prednáška)
- [48] P. Kopčanský, *Bioinspired magnetic nanoparticles for biomedical and biotechnological applications*, 15. - 17. .9. 2022, International Conference on Advances in Molecular Diagnostics and Precision Medicine (AMDP-2022) in Association with Cancercon-2022, Chennai, India (prednáška)
- [49] M. Timko, *Hypertermia in rotational magnetic field*, 15. - 17. .9. 2022, International Conference on Advances in Molecular Diagnostics and Precision Medicine (AMDP-2022) in Association with Cancercon-2022, Chennai, India (prednáška)

- [50] S. Gabáni, *Investigation of quantum magnets in metallic tetraborides*, 18. - 22. 9. 2022, User EMP meeting, Štrbské Pleso, Slovakia (prednáška)
- [51] M. Krivda, *ALICE trigger system for LHC Run 3*, 19. - 23. 9. 2022, TWEPP 2022 Topical Workshop for Particle Physics, Bergen, Norway (prednáška)
- [52] M. Hnatič, *Field theoretic models of turbulence: From Kolmogorov power laws to intermittency*, 10. - 14. 10. 2022, International conference Models of Quantum Field Theory MQFT 2022, Sankt Peteresburg, Russia (prednáška)
- [53] I. Antal, *Novel Poly-L-Lysine Coated Nanoparticles in a Form of Magnetic Fluid Designed for Biomedical Applications*, 16. - 19. 10. 2022, 6th International Conference on Nanomaterials: Fundamentals and Applications, Štrbské Pleso, Slovakia (výveska)
- [54] A. Juríková, *Thermogravimetric Analysis of Amino-modified Magnetic Nanoparticles*, 16. - 19. 10. 2022, 6th International Conference on Nanomaterials: Fundamentals and Applications, Štrbské Pleso, Slovakia (výveska)
- [55] R. Sobotová, *Engineered Nanoparticles for Imaging of Drug Distribution in Lungs by Magnetic Resonanc*, 16. - 19. 10. 2022, 6th International Conference on Nanomaterials: Fundamentals and Applications, Štrbské Pleso, Slovakia (výveska)
- [56] V. Závašová, *Nanocarriers as Drug Delivery Systems*, 16. - 19. 10. 2022, 6th International Conference on Nanomaterials: Fundamentals and Applications, Štrbské Pleso, Slovakia (výveska)
- [57] R. Langer, *Significant TGEs on Lomnický Štít*, 17. - 20. 10. 2022, TEPA 2022, Praha, Czech Republic (prednáška)
- [58] M. Karpets, *Influence of magnetic and electric field on magnetic fluids structure*, 25. - 28. 10. 2022, 22nd International workshop on theoretical physics, Small Triangle Meeting, Medzilaborce, Slovakia (prednáška)
- [59] D. Miakota, *Memory effect in 5CB liquid crystal based composites*, 25. - 28. 10. 2022, 22nd International workshop on theoretical physics, Small Triangle Meeting, Medzilaborce, Slovakia (prednáška)
- [60] K. Zolocheska, *Biomedical and biotechnological applications of magnetic nanoparticles (including magnetoferritin)*, 25. - 28. 10. 2022, 22nd International workshop on theoretical physics, Small Triangle Meeting, Medzilaborce, Slovakia (prednáška)
- [61] R. Remecký, *Názov?*, 25. - 28. 10. 2022, 22nd International workshop on theoretical physics, Small Triangle Meeting, Medzilaborce, Slovakia (výveska)
- [62] R. Kaur, *Study of Disordered Materials by High Energy X ray Scattering*, 6. - 10. 11. 2022, SFEL 2022, Liptovský Ján, Slovakia (výveska)
- [63] J. Bednarčík, *Instrument Resolution of 2 D X ray Diffraction Setup*, 6. - 10. 11. 2022, SFEL 2022, Liptovský Ján, Slovakia (výveska)
- [64] L. Nulandaya, *Characterizations of Reversible Martensitic Transformation in Shape Memory Ni₂FeGa Microwire*, 6. - 10. 11. 2022, SFEL 2022, Liptovský Ján, Slovakia (výveska)

[65] Z. Bednáríková, *Short truncated tau fragment 321-391 aggregates in the presence of heparin despite the lack the PHF6 epitope*, 14. - 16. 11. 2022, 9th Scandinavian and Baltic Conference, Amyloid Diseases and Amyloid Mechanisms (ADAM9), Riga, Latvia (výveska)

[66] M. Gančár, *Cations' influence on amyloid aggregation of α -lactalbumin*, 14. - 16. 11. 2022, 9th Scandinavian and Baltic Conference, Amyloid Diseases and Amyloid Mechanisms (ADAM9), Riga, Latvia (výveska)

[67] Z. Bednáríková, *Extracts from Chinese herbs with anti-amyloid and neuroprotective activities*, 14. - 16. 11. 2022, 9th Scandinavian and Baltic Conference, Amyloid Diseases and Amyloid Mechanisms (ADAM9), Riga, Latvia (výveska)

[68] Š. Mackovjak, *Towards explanation of airglow variation by ML techniques, Space Weather Landscape in Slovakia*, 24. - 28. 11. 2022, European Space Weather Week, Zahreb, Croatia (výveska)

Národné vedecké podujatia:

[1] J. Bačkai, *Angle-resolved magnetoresistance of TmB_4* , 8. 4. 2022, Scientific Conference of Young Researchers SCYR 2022, FEI TUKE, Košice (prednáška)

[2] M. Karpets, *Štúdium magnetických kvapalín na báze transformátorového oleja pomocou röntgenovej a neutrónovej reflektometrie*, 8. 4. 2022, Scientific Conference of Young Researchers SCYR 2022, FEI TUKE, Košice (prednáška)

[3] M. Kuzmiak, *Experimental study of the vortex lattice in strong disordered ultrathin 3 nm Mo_2N film*, 8. 4. 2022, Scientific Conference of Young Researchers SCYR 2022, FEI TUKE, Košice (prednáška)

[4] D. Miakota, *Self-organization in nanocomposites based on liquid crystals*, 8. 4. 2022, Scientific Conference of Young Researchers SCYR 2022, FEI TUKE, Košice (prednáška)

[5] K. Zolocheska, *Biomedical and biotechnological applications of magnetic nanoparticles (including magnetoferritin)*, 8. 4. 2022, Scientific Conference of Young Researchers SCYR 2022, FEI TUKE, Košice (prednáška)

[6] A. Antošová, *α -lactalbumin amyloid fibrillization in the presence of chloride salts cations*, 3. - 5. 5. 2022, 10th Slovak Biophysical Symposium, KC Smolenice (výveska)

[7] Z. Bednáríková, *Protein amyloid self-assembly, polymorphism and biological significance: anion role*, 3. - 5. 5. 2022, 10th Slovak Biophysical Symposium, KC Smolenice (výveska)

[8] D. Fedunová, *Modulation of insulin amyloid aggregation by amino acid-based ionic liquids: anion role*, 3. - 5. 5. 2022, 10th Slovak Biophysical Symposium, KC Smolenice (výveska)

[9] M. Gančár, *Influence of herbal extracts' constituents on the amyloid aggregation of proteins*, 3. - 5. 5. 2022, 10th Slovak Biophysical Symposium, KC Smolenice (prednáška)

[10] M. Gančár, *Influence of herbal extracts' constituents on the amyloid aggregation of proteins*, 3. - 5. 5. 2022, 10th Slovak Biophysical Symposium, KC Smolenice (výveska)

[11] O. Parmar, *Amino acid-coated magnetite nanoparticles as potential inhibitors of α -lactalbumin amyloid aggregation*, 3. - 5. 5. 2022, 10th Slovak Biophysical Symposium, KC Smolenice (výveska)

- [12] R. Langer, *On the relations between lightning, solar wind, solar activity and cosmic rays*, 6. - 10. 6. 2022, 26. Celostátny slnečný seminár, Piešťany
- [13] J. Bačkai, *Angle-resolved magnetoresistance in strongly anisotropic quantum magnet TmB_4* , 5. - 8. 9. 2022, 26. konferencia slovenských fyzikov, Košice (výveska)
- [14] M. Kovalik, *$La_{0.80}Ag_{0.15}MnO_3$ magnetic nanoparticles for self-controlled magnetic fluid hyperthermia*, 5. - 8. 9. 2022, 26. konferencia slovenských fyzikov, Košice (prednáška)
- [15] R. Langer, *Diffusion coefficient for cosmic ray modulation models*, 5. - 8. 9. 2022, 26. konferencia slovenských fyzikov, Košice (výveska)
- [16] M. Mihalik, *Effect of oxygen content on properties of $La_{1-x}Ag_xMnO_3$* , 5. - 8. 9. 2022, 26. konferencia slovenských fyzikov, Košice (prednáška)
- [17] B. Pastirčák, *Simulation of cosmic rays interaction with simple human eye model in geant 4 package*, 5. - 8. 9. 2022, 26. konferencia slovenských fyzikov, Košice (výveska)
- [18] G. Pristáš, *Superconductors under pressure*, 5. - 8. 9. 2022, 26. konferencia slovenských fyzikov, Košice (prednáška)
- [19] M. Rajňák, *Dielektrické a tepelné vlastnosti nanokvapalín s obsahom fulerénu a magnetických nanočastíc*, 5. - 8. 9. 2022, 26. konferencia slovenských fyzikov, Košice (prednáška)
- [20] H. Vargová, *The effect of external electric field on the quantum and thermal entanglement in the mixed spin-(1/2,s) Heisenberg dimer*, 5. - 8. 9. 2022, 26. konferencia slovenských fyzikov, Košice (výveska)
- [21] H. Vargová, *Entanglement in the mixed spin-(1/2,s) Heisenberg dimer*, 5. - 8. 9. 2022, 26. konferencia slovenských fyzikov, Košice (výveska)
- [22] J. Kubančák, *Radiačná záťaž posádok leteckých spoločností registrovaných na Slovensku*, 19. - 23. 9. 2022, XLIII. Dni radiačnej ochrany, Hotel Academia, Stará Lesná (prednáška)
- [23] J. Kubančák, *SIREN (Space Ionizing Radiation Project Nursery)*, 19. - 23. 9. 2022, XLIII. Dni radiačnej ochrany, Hotel Academia, Stará Lesná (výveska)
- [24] M. Karpets, *Electric Field Induced Self-Assembled Particle Layering of Transformer Oil-based Ferrofluid Investigated by Neutron Reflectometry*, 6. - 10. 11. 2022, 7th International Scientific School of XFEL and Synchrotron Radiation Users, Liptovský Ján (prednáška)
- [25] P. Kopčanský, *A neutron study for structural characterization of magnetic fluids*, 6. - 10. 11. 2022, 7th International Scientific School of XFEL and Synchrotron Radiation Users, Liptovský Ján (prednáška)

2.6. Vyžiadané prednášky

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

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

- [1] P. Szabó, *Spin Polarization in Co_2FeSn Heusler Nanowires studied by Point-Contact Andreev Reflection Spectroscopy*, 1. 3. 2022, Memory seminar of Professor A.N. Omelyanchuk, FTINT

Kharkiv, Ukraine

[2] P. Szabó, *Interface induced pair-breaking effects in ultra-thin films*, 7. - 9. 3. 2022, Quantum materials and devices at the nanoscale, Madrid, Spain

[3] R. Pinčák, *A special kind of Einstein sequential warped product manifold*, 26. - 28. 4. 2022, International Conference on Analysis and Applied Mathematics (ICAAAM 2022), kde?

[4] P. Szabó, *Zeeman-driven superconductor-insulator transition in strongly disordered MoC films*, 11. - 18. 6. 2022, SS BP, Dubrovnik, Croatia

[5] P. Samuely, *Ising superconductivity in misfitlayer compounds*, 20. - 24. 6. 2022, Polish Conference on Crystal Growth, Gdansk, Poland

[6] J. Bednarčík, *Strain mapping using high energy X ray diffraction*, 21. 6. 2022, Struktura 2022, Tábor, Czech Republic

[7] Z. Bednáriková, *Protein amyloid fibrils bionanotechnology and biological significance*, 26. 6. 2022, 13th AFOB Regional Symposium (ARS), Kinmen County, Taiwan

[8] Mat. Mihalik, *Magnetism in $RMn_{1-x}Fe_xO_3$ orthorhombically distorted perovskite compounds*, 27. - 30. 6. 2022, Multiscale Phenomena in Condensed Matter, Kraków, Poland

[9] M. Zentková, *The hole doped perovskite manganites $La_{0.80}Ag_{0.15}MnO_3$ for bioapplications*, 27. - 30. 6. 2022, Multiscale Phenomena in Condensed Matter, Kraków, Poland

[10] P. Skyba, *Superfluid 3He -B as a model system for qu-bit*, 29. 6. - 1. 7. 2022, Workshop: Quantum rendezvous, KC Smolenice, Slovakia

[11] I. Škorvánek, *Impact of Thermomagnetic Processing on Soft Magnetic Behavior of High-Bs FeCo-based Nanocrystalline Alloys*, 3. - 7. 7. 2022, 12th Pamir International Conference on Fundamental and Applied MHD, Krakow, Poland

[12] J. Bednarčík, *Štúdium štruktúry látok pomocou metód využívajúcich rozptyl RTG žiarenia*, 8. 8. 2022, Struktura 2022, Karlova Univerzita, Praha, Czech Republic

[13] J. Nemčík, *Nuclear effects in coherent photoproduction of heavy quarkonia*, 24. - 30. 9. 2022, International conference Diffraction and Low-x 2022, Italy

[14] M. Hnatič, *Field-theoretic models of turbulence: From Kolmogorov power laws to intermittency*, 10. - 14. 10. 2022, VII. International conference "Models in Quantum Field Theory", Saint Petersburg, Russia

[15] M. Hnatič, *Three loop calculations of critical exponents in direct percolation model*, 17. - 22. 10. 2022, International conference Modern Problems of Condensed Matter Theory MPCM 2022, Dubna, Russia

[16] P. Skyba, *BEC of magnons in superfluid 3He -B as a quantum resonant amplifier*, 4. - 5. 11. 2022, Symposium on Topological Quantum Matter: from Superfluid 3He to modern materials, Aalto University, Finland

[17] P. Skyba, *Our scientific pilgrimage, not-so-scientific session*, 4. - 5. 11. 2022, Symposium on

Topological Quantum Matter: from Superfluid 3He to modern materials, Aalto University, Finland

[18] J. Bednarčík, *Strain Mapping using High Energy Synchrotron Radiation*, 6. - 10. 11. 2022, SFEL 2022, Liptovský Ján

[19] I. Škorvánek, *Soft Magnetic Fe(Co)-based High Bs Nanocrystalline Alloys for Applications at Elevated Temperatures*, 21. - 23. 11. 2022, 6th International Symposium on Frontiers in Materials Science FMS 2022, Phu Quoc, Vietnam

2.6.2. Vyžiadané prednášky na národných vedeckých podujatiach

[1] J. Bednarčík, *Štúdium štruktúry látok pomocou metód využívajúcich rozptyl RTG žiarenia*, 28. 2. 2022, Slovenská magnetická spoločnosť, Košice

[2] Š. Mackovjak, *Štúdiá zapojenia Slovenska do ESA programu kozmickej bezpečnosti*, 6. - 10. 6. 2022, 26. Celoštátny slnečný seminár, Piešťany

[3] L. Nulandaya, *Ni₂FeGa: from Master Alloy to Microwire*, 27. - 28. 6. 2022, METALURGIA JUNIOR 2022, Herľany

[4] Z. Bednáriková, *Amyloid aggregation of proteins*, 28. 6. 2022, CasProt Summer School, Košice

[5] J. Bednarčík, *Atomic Structure of Matter Studied by X ray radiation*, 4. - 9. 9. 2022, 1. Letná škola fyziky kondenzovaných látok, Liptovský Ján

[6] P. Szabó, *The Košice low temperature STM system*, 4. - 9. 9. 2022, 1. Letná škola fyziky kondenzovaných látok, Liptovský Ján

[7] P. Bobík, *Modely kozmického žiarenia v magnetosfére Zeme a heliosfére*, 5. - 8. 9. 2022, 26. konferencia slovenských fyzikov, Košice

[8] Š. Mackovjak, *Využitie strojového učenia v kozmickej fyzike*, 5. - 8. 9. 2022, 26. konferencia slovenských fyzikov, Košice

[9] R. Pinčák, *Cestovanie v čase a paralelné vesmíry*, 5. - 8. 9. 2022, 26. konferencia slovenských fyzikov, Košice

[10] K. Šipošová, *The Intriguing Effect of Selected Amphiphilic Compounds on Protein Amyloid Aggregation*, 25. 11. 2022, Novel Trends in Chemistry, Research and Education at Faculty of Science of P. J. Šafárik University, Košice

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

[1] M. Hnatič, *Quantum field theory methods in stochastic dynamics and turbulence*, 20. 1. 2022, Alikhanyan National Science Laboratory, Jerevan, Armenia

[2] N. Tomašovičová, *Feronematika - nematické kvapalné kryštály dopované magnetickými nanočasticami*, 30. 3. 2022, FEI TUKE, Košice

[3] N. Tomašovičová, *Ferronematics - nematic liquid crystals doped with magnetic nanoparticles*, 7. 6. 2022, Luxemburg University, Luxemburg

[4] M. Mihalik, *La_{0.80}Ag_{0.15}MnO₃ magnetic nanoparticles for self-controlled magnetic fluid hyperthermia*, 6. 12. 2022, Institute of Nuclear Physics PAN, Department of Molecular Magnetism, Kraków, Poland

2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2022

2.7.1. Vynálezy, na ktoré bol v roku 2022 udelený patent

a) na Slovensku

Názov vynálezu: Spôsob čistenia organických vodorozpusťných látok od hydrofóbných kontaminantov

Číslo patentu: ÚPV SR, patent č. 288949

Dátum priority: 15.3.2016

Majiteľ / spolumajiteľ: Ústav experimentálnej fyziky SAV, v. v. i.

Pôvodcovia vynálezu: Sedlák Marián, Rak Dmytro

Názov vynálezu: Spôsob interaktívnej kvantifikácie digitalizovaných 3D objektov pomocou kamery snímajúcej pohľad

Číslo patentu: ÚPV SR, patent č. 289010

Dátum priority: 17.10.2016

Majiteľ / spolumajiteľ: Ústav experimentálnej fyziky SAV, v. v. i.

Pôvodcovia vynálezu: Tomori Zoltán

b) v zahraničí

2.7.2. Vynálezy prihlásené v roku 2022

a) na Slovensku

Názov vynálezu: Spôsob výroby masívneho monokryštalického GdBCOAg supravodiča

Číslo prihlášky: PP50041-2022

Dátum priority: 30.8.2022

Majiteľ / spolumajiteľ: Ústav experimentálnej fyziky SAV, v. v. i.

Pôvodcovia vynálezu: Radušovská Monika, Kuchárová Veronika, Hajdová Petra, Diko Pavel

b) v iných krajinách ako prioritná prihláška

c) PCT

Názov vynálezu: Device for measuring the magneto-dielectric properties of thin dielectric layers and a system containing the device

Krajina:

Číslo prihlášky: PCT/SK2022/050009

Dátum priority: 10.11.2022

Majiteľ / spolumajiteľ: Ústav experimentálnej fyziky SAV, v. v. i.

Pôvodcovia vynálezu: Rajňák Michal, Dolník B.

d) EP

Názov vynálezu: A Method for Purification of Organic Water-Soluble Polymers from Hydrophobic Contaminants

Krajina:

Číslo prihlášky: EP22154112.1.

Dátum priority: 28.1.2022

Majiteľ / spolumajiteľ: Ústav experimentálnej fyziky SAV, v. v. i.

Pôvodcovia vynálezu: Sedlák Marián, Rak Dmytro

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 2022

b) udelené v roku 2022

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)

Finančný prínos pre organizáciu SAV v roku 2022 a súčet za predošlé roky sa neuvádzajú, ak je zverejnenie v rozpore so zmluvou súvisiacou s realizáciou patentu.

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
Farkašovský Pavol	APVV	1
	VEGA	1
Gažová Zuzana	VEGA	2
	VVGS UPJŠ	1
Mihalik Marián	APVV	1
Milkovič Ondrej	VEGA	1
Musatov Andrey	VVGS UPJŠ	1
Pinčák Richard	VEGA	1
Pristáš Gabriel	VVGS UPJŠ	1
Pudlák Michal	VEGA	1
Samuely Peter	APVV	13
Šipošová Katarína	VEGA	3
Timko Milan	VEGA	2
Tomašovičová Natália	VEGA	1
	VVGS UPJŠ	1
Tomori Zoltán	VVGS UPJŠ	1
Vargová Hana	VVGS UPJŠ	1

2.9. Účasť na spracovaní hesiel do encyklopédie Beliana

Počet autorov hesiel: 0

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
Antošová Andrea	0	0	8	0	0	0	0
Bednáriková Zuzana	0	0	4	0	0	0	0
Bobík Pavol	0	0	2	0	0	0	0
Diko Pavel	0	0	27	0	0	0	0
Fedunová Diana	0	0	3	0	0	0	0
Flachbart Karol	0	0	2	0	0	0	0
Gabáni Slavomír	0	0	2	0	0	0	0
Gažová Zuzana	0	0	6	0	0	1	0
Hnatič Michal	0	0	2	0	0	0	0
Kopčanský Peter	0	0	7	0	0	0	0
Kováč Jozef	0	0	10	0	0	0	0
Kubančák Ján	0	1	0	0	0	1	0
Kuchárová Veronika	0	0	0	0	0	1	0
Kunca Branislav	0	0	4	0	0	0	0
Mackovjak Šimon	0	0	1	0	0	0	0
Marcin Jozef	0	0	3	0	0	0	0
Mihalik Marián	0	0	3	0	0	0	0
Mihálik Matúš	0	0	2	0	0	0	0
Molčan Matúš	0	0	3	0	0	1	0
Musatov Andrey	0	0	4	0	0	1	0
Pudlák Michal	0	0	3	0	0	0	0
Rajňák Michal	0	0	7	0	0	0	0
Samuely Peter	0	0	5	0	0	0	0
Sedlák Marián	0	0	3	0	0	0	0
Skyba Peter	0	0	1	0	0	0	0
Szabó Pavol	0	0	3	0	0	0	0
Šipošová Katarína	0	0	16	0	0	0	0
Škorvánek Ivan	0	0	6	0	0	0	0

Tomašovičová Natália	0	0	4	0	0	2	0
Vargová Hana	0	0	0	0	0	3	0
Volochová Daniela	0	0	1	0	0	0	0
Spolu	0	1	142	0	0	10	0

2.11. Iné informácie k vedeckej činnosti.

Oddelenie subjadrovej fyziky

GRID Computing for the LHC experiments at IEP SAS Kosice:

- Pracovné uzly/počet jadier: 53 / 832
- Disk space ALICE+ATLAS: 1.25 PB + 1.25 PB
- Spracovaných úloh: 2 063 247

Experimenty na LHC v 2022:

- Hlavným cieľom v roku 2022 na experimentoch v CERN na LHC bol commissioning experimentov a začiatok zberu dát pre fyzikálnu analýzu Run-3. Počas druhej dlhodobej odstávky LHC, ktorá skončila v roku 2021 boli mnohé experimentálne komponenty experimentu ALICE vymenené a modernizácia sa nevyhla ani experimentu ATLAS.
- Všetky časti infraštruktúry, hardvérové aj softvérové, boli doladené do plne funkčného stavu.

Central Trigger Processor (CTP) pre experiment ALICE v Run-3 (M. Krivda):

- Dokončenie inštalácie CTP hardware v experimente.
- Vývoj a testovanie firmware pre CTP readout.
- Vývoj a ladenie firmware pre CTP core logic.
- Návrh a testovanie PLL konfigurácie pre hitless clock switching pre detektory ITS a TPC.
- Návrh firmware a ladenie kalibračného mechanizmu pre detektory ALICE.
- Modifikácia TTC-PON firmware pre CTP FPGA štruktúru.
- Vývoj a testovanie firmware pre 240 MHz clock pre TICG modul (trigger generator and a clock generator).

Experiment ATLAS:

- Výrazný príspevok k úspešnému rozbehu LAr kalorimetra detektora ATLAS -validácia softwaru a conditions,migrácia softwaru na nový framework, konsolidácia spracovania kalibračných dát, atď.
- LAr kalorimetrom bolo získaných približne 38 nb-1 dát vhodných na fyzikálnu analýzu, na čom sme mali relatívne veľký vklad - smeny na prevádzke detektora, elektronická kalibrácia, smeny na data quality, tréning nových študentov na LAr software, atď.
- Nová posila Dominik Babál (Juraj Smieško je na fellowship v CERNe) pracuje na ttZ analýze a začal sa zaučať do LAr data quality softwaru.
- Prispeli sme k validácii modelov hadrónovej fyziky simulačného frameworku Geant4 (spoločná publikácia tento rok: L. Pezzotti, A. Kiryushin, D. Konstantinov, A. Ribon, P. Striženec and Geant4, Including Calorimeter Test Beams in Geant-val - The Physics Validation Testing Suite of Geant4, Instruments 6 Issue 3, 41, 2022).
- Pokračuje naše zapojenie do koordinačných funkcií v ATLAS (LAr software and data preparation coordinator, LAr Group Representatives chair).

Oddelenie kozmickej fyziky

Konštrukcia experimentálnej techniky - fotometre EMON (4ks) pre balónovú misiu NASA-SPB2.

Oddelenie materiálovej fyziky:

Rozvoj experimentálnych techník:

- Systém pre RTG difrakčnú analýzu (J. Bednarčík, O. Milkovič, V. Kuchárová, R. Smolko): difrakčné analýzy pre ÚEF SAV, v. v. i. (OFMJ, CFNT), PF UPJŠ, FMMR TUKE, ÚMV a ÚGT SAV, v. v. i.
- Skenovacia elektrónová mikroskopia a EDS, WDS, EBSD analýzy (P. Diko, M. Radušovská): analýzy pre ÚMV SAV, v. v. i., UPJŠ a TUKE. Inovácia za cca 9 000 EUR hrazená z projektu APVV-21-0387.
- Termická analýza (V. Kuchárová): analýzy pre ÚMV SAV, v. v. i. a UPJŠ

3. Doktorandské štúdium, iná pedagogická činnosť a budovanie ľudských zdrojov pre vedu a techniku

3.1. Údaje o doktorandskom štúdiu

Tabuľka 3a Počet doktorandov v roku 2022

Forma	Počet k 31.12.2022				Počet doktorandov po doktorandskej skúške		Počet ukončených doktorantúr v r. 2022						
	celkový počet		z toho novoprijatí				Ukončenie z dôvodov						
	M	Ž	M	Ž			ukončenie úspešnou obhajobou		predčasné ukončenie		neúspešné ukončenie		
	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž	
Denná zo zdrojov SAV	11	8	0	3	2	0	0	0	0	0	0	0	0
Denná z iných zdrojov	0	0	0	0	0	0	0	0	0	0	0	0	0
Externá	0	0	0	0	0	0	0	0	0	0	0	0	0
Spolu	11	8	0	3	2	0	0	0	0	0	0	0	0
Z toho zahraničných	4	2	0	1	1	0	0	0	0	0	0	0	0
Súhrn	19		3		2		0		0		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 2022 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.

3.2. Zmena formy doktorandského štúdia

Tabuľka 3b 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

3.3. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou

Tabuľka 3c Menný zoznam ukončených doktorandov v roku 2022 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 hodnosť
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3.4. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou v nadštandardnej dĺžke štúdia

Tabuľka 3d Menný zoznam ukončených doktorandov v roku 2022 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

3.5. Uplatnenie absolventov doktorandského štúdia

Tabuľka 3e Prehľad uplatnenia absolventov doktorandského štúdia

Počet absolventov PhD. štúdia v roku 2022 (obhajoba leto 2022)	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
0	0	0	0	0

Zoznam interných a externých doktorandov je uvedený v prílohe A.

3.6. Medzinárodné doktorandské štúdium

Tabuľka 3f Počet študentov v medzinárodných programoch doktorandského štúdia

Cotutelle	Co-direction	Iné	Zahranční doktorandi štátne občianstvo/počet
0	0	0	UKR/4, IDN/1, IND/1

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

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

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

Tabuľka 3g 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	Biofyzika	Prírodovedecká fakulta UPJŠ
		Fyzika kondenzovaných látok	Prírodovedecká fakulta UPJŠ
		Jadrová a subjadrová fyzika	Prírodovedecká fakulta UPJŠ
		Progresívne materiály	Prírodovedecká fakulta UPJŠ
		Teoretická fyzika	Prírodovedecká fakulta UPJŠ
strojárstvo	2381	Materiály	Fakulta materiálov, metalurgie a recyklácie TUKE
elektrotechnika	2675	Fyzikálne inžinierstvo progresívnych materiálov	Fakulta elektrotechniky a informatiky TUKE

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.

Do 31. 8. 2023 študujú študenti doktorandského štúdia zaradení do študijných programov podľa zoznamu MŠVVaŠ, platného do 1. 9. 2019. Pre týchto študentov je potrebné napísať názov programu ako voľný text do stĺpca 3 a nevyplňovať stĺpce 1 a 2.

Tabuľka 3h 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
doc. RNDr. Dušan Bruncko, CSc. (jadrová a subjadrová fyzika)	doc. RNDr. Zuzana Gažová, DrSc. (Prírodovedecká fakulta UPJŠ)	doc. RNDr. Zuzana Gažová, DrSc. (I)
Ing. Pavel Diko, DrSc., akademik US Slovenska (fyzika kondenzovaných látok a akustika)	prof., RNDr. Peter Samuely, DrSc., akademik US Slovenska (Univerzita Pavla Jozefa Šafárika v Košiciach)	RNDr. Iryna Khmara, PhD. (IIa)
Ing. Pavel Diko, DrSc., akademik US Slovenska (strojárstvo)		RNDr. Veronika Lacková, PhD. (IIa)

RNDr. Pavol Farkašovský, DrSc. (všeobecná fyzika a matematická fyzika)		
doc. RNDr. Karol Flachbart, DrSc., akademik US Slovenska (fyzika kondenzovaných látok a akustika)		
doc. RNDr. Karol Flachbart, DrSc., akademik US Slovenska (fyzikálne inžinierstvo)		
doc. RNDr. Slavomír Gabáni, PhD. (elektrotechnika)		
doc. RNDr. Zuzana Gažová, DrSc. (chémia)		
doc. RNDr. Zuzana Gažová, DrSc. (biofyzika)		
prof. Dr.h.c. RNDr. Michal Hnatič, DrSc. (všeobecná fyzika a matematická fyzika)		
prof. Dr.h.c. RNDr. Michal Hnatič, DrSc. (jadrová a subjadrová fyzika)		
doc. RNDr. Peter Kopčanský, CSc. (fyzika kondenzovaných látok a akustika)		
doc. RNDr. Peter Kopčanský, CSc. (všeobecná fyzika a matematická fyzika)		
RNDr. Ivan Králik, CSc. (všeobecná fyzika a matematická fyzika)		
RNDr. Ivan Králik, CSc. (jadrová a subjadrová fyzika)		
MUDr. Andrey Musatov, DrSc. (biofyzika)		
MUDr. Andrey Musatov, DrSc. (biochémia)		
doc. RNDr. Ján Nemčík, CSc. (všeobecná fyzika a matematická fyzika)		
prof. RNDr. Marián Reiffers, DrSc. (všeobecná fyzika a matematická fyzika)		
prof., RNDr. Peter Samuely, DrSc., akademik US Slovenska (fyzika kondenzovaných látok a akustika)		
RNDr. Marián Sedlák, DrSc. (mineralurgia)		
RNDr. Peter Skyba, DrSc. (fyzika kondenzovaných látok a akustika)		

Mgr. Pavol Szabó, CSc. (fyzika kondenzovaných látok a akustika)		
RNDr. Ivan Škorvánek, CSc. (fyzika kondenzovaných látok a akustika)		
RNDr. Ivan Škorvánek, CSc. (fyzikálne inžinierstvo)		

3.8. Údaje o pedagogickej činnosti

Tabuľka 3i Prednášky a cvičenia vedené v roku 2022

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	15	1	5	2
Celkový počet hodín v r. 2022	521	90	94	58

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

Tabuľka 3j Aktivity pracovníkov na VŠ

1.	Počet pracovníkov, ktorí pôsobili ako vedúci alebo konzultanti diplomových a bakalárskych prác	11
2.	Počet vedených alebo konzultovaných diplomových a bakalárskych prác	15
3.	Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)	19
4.	Počet školených doktorandov (aj pre iné inštitúcie)	29
5.	Počet oponovaných dizertačných a habilitačných prác	17
6.	Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce	12
7.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác	5
8.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác	6
9.	Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti v inauguračnom alebo habilitačnom konaní na vysokých školách	0

3.9. Iné dôležité informácie k pedagogickej činnosti

Dňa 23. 6. 2022 sa uskutočnil **Seminár doktorandov** ÚEF SAV, v. v. i. v Aule ústavov SAV na Watsonovej ulici č. 47 v Košiciach, na ktorom každý doktorand prezentoval svoju študijnú a vedeckú činnosť v akademickom roku 2021/22. Po seminári bolo stretnutie vedenia ústavu so školiteľmi a garantami študijných programov.

Boli podané 3 nové Doktogranty:

[1] APP0345: **Characterizations of Shape Memory Microwires for Micro Actuator and Micro Sensor**, Zodpovedný riešiteľ: Limpat Nulandaya

[2] APP0381: **Funkcionalizované magnetické nanočastice pre MRI zobrazovanie distribúcie liečiva v pľúcach pri akútnom syndróme respiračnej tiesne (ARDS)**, Zodpovedný riešiteľ: Radka Sobotová

[3] APP0396: **Frustrované kovové magnetické systémy**, Zodpovedný riešiteľ: Július Bačkai

Už tradične bola dňa 14. 12. 2022 zorganizovaná **Súťaž mladých vedeckých pracovníkov** ÚEF SAV, v. v. i. do 35 rokov. Prihlásilo sa 9 súťažiacich: RNDr. Miroslav Gančár, PhD.; Mgr. Maksym Karpets; RNDr. Iryna Khmara, PhD.; Mgr. Veronika Kuchárová, PhD.; Ing. Branislav Kunca, PhD.; Ing. Bc. Marek Kuzmiak; Mgr. Dmytro Miakota; RNDr. Ľubomíra Regeciová, PhD.; Mgr. Kristina Zolochovska.

Porota v zložení: RNDr. Pavol Farkašovský, DrSc.; RNDr. Diana Fedunová, PhD.; RNDr. Jozef Kačmarčík, PhD.; Ing. Martina Koneracká, CSc.; RNDr. Ivan Králik, CSc.; RNDr. Marián Sedlák, DrSc.; RNDr. Ivan Škorvánek, CSc.; RNDr. Natália Tomašovičová, CSc.; RNDr. Mária Zentková, CSc.; Doc. RNDr. Erik Čižmár, PhD.; Prof. RNDr. Miroslav Grajcar, DrSc.; Doc. Ing. Karel Saksl, DrSc.; Prof. RNDr. Ján Ziman, CSc. rozhodla o umiestnení súťažiacich nasledovne:

I. miesto

RNDr. Miroslav Gančár, PhD.

Two faces of poly/peptide amyloid aggregation: inhibition vs. application

II. miesto

RNDr. Ľubomíra Regeciová, PhD.

Theoretical study of ground state and thermodynamic properties of rare earth tetraborides – Novel model approach

III. miesto

Ing. Branislav Kunca, PhD.

Soft magnetic performance of ultra-rapidly annealed high-B_S Fe-(Co)-B nanocrystalline alloys at elevated temperatures

Ing. Bc. Marek Kuzmiak

Superconductivity in strongly disordered systems

Štefan Schwarz fond v roku 2022:

Iryna Khmara, 1.6.2020 - 31.5.2024, Oddelenie fyziky magnetických javov

Veronika Lacková, 1.6.2020 - 31.5.2023, Oddelenie fyziky magnetických javov

Matúš Orendáč, 1.6.2020 - 31.5.2023, Centrum fyziky nízkych teplôt

Monika Radušovská, 1.6.2020 - 31.5.2023, Oddelenie materiálovej fyziky

Vedenie doktorandov mimo ÚEF SAV, v. v. i.:

[1] Viacheslav Mykhailenko, *Štúdium distribúcie a pohybu častíc kozmického žiarenia v Heliosfére a magnetosfére Zeme*, PF UPJŠ, Školiteľ: Pavol Bobík

[2] Patrik Jakab, *Pohyb častíc kozmického žiarenia v magnetosfére Zeme a kozmické počasie*, PF UPJŠ, Školiteľ: Pavol Bobík

[3] Dominika Švecová, *Radiačné vplyvy kozmického žiarenia na pilotované misie a urýchľovanie častíc kozmického žiarenia*, PF UPJŠ, Školiteľ: Pavol Bobík, Konzultant: Bohuslav Pastirčák

[4] Daniel Gecášek, *Methods and algorithms of automated processing of data and models of cosmic physics*, FEI TUKE, Konzultant: Pavol Bobík

[5] Michal Solaník, *Methods and algorithms of acceleration/parallelization of calculations of models in physics*, FEI TUKE, Konzultant: Pavol Bobík

[6] Martin Nguyen, *Metódy optimalizácie výpočtového spracovania modelov kozmického žiarenia*, FEI TUKE, Konzultant: Pavol Bobík

[7] Jozef Haniš, *Teoretické štúdium elektrónovej štruktúry vrstevnatých supravodivých materiálov*, PF UPJŠ, Školiteľ: Martin Gmitra

[8] Juraj Mnich, *Spinovo-orbitálny točivý moment vo van der Waalsovských heteroštruktúrach dvojrozmerných materiálov*, PF UPJŠ, Školiteľ: Martin Gmitra

[9] Matej Kecer, *Metódy polovo-teoretickej renormalizačnej grupy v stochastickej dynamike: Štúdium nerovnovážnych procesov s premenným počtom častíc*, PF UPJŠ, Školiteľ: Michal Hnatič

[10] Andrej Ovsiannikov, *Stochastická dynamika a turbulencia: Výpočet relevantných parametrov a anomálnych indexov vo vyšších radoch poruchovej teórie*, PF UPJŠ, Školiteľ: Michal Hnatič

[11] Filoména Sopková, *Štúdium produkcie top kvarku v experimente ATLAS*, PF UPJŠ, Školiteľ: Jozef Urbán

Vedenie diplomantov:

- [1] V. Salóciová, *Automatizácia práce s meteorologickými modelmi*, FEI TUKE, Školiteľ: Pavol Bobík
- [2] T. Moško, *Štúdium elektrónovej štruktúry v interkalovaných monovrstvách a ich van der Waalsovských heteroštruktúrach*, PF UPJŠ, Školiteľ: Martin Gmitra
- [3] M. Varga, *Použitie hlbokého učenia pri spracovaní dát z kozmickej fyziky*, FEI TUKE, Konzultant: Šimon Mackovjak
- [4] S. Jaščúr, *Analýza rádiových spektrogramov metódami nekontrolovaného učenia*, FEI TUKE, Konzultant: Šimon Mackovjak
- [5] A. Balická, *Nanočastice céria a choroby súvisiace s vekom a amyloidnou agregáciou*, PF UPJŠ, Školiteľ: Katarína Šipošová, Konzultant: Ivana Garčárová
- [6] T. Bíró, *Controlled Assembly of Spider Silk-DNA conjugates*, PF UPJŠ, Školiteľ: Katarína Šipošová
- [7] V. Jedinák, *Funkcionalizácia magnetických nanočastíc*, PF UPJŠ, Školiteľka: Vlasta Závišová

Vedenie bakalárov:

- [1] M. Lukáč, *Štúdium kvázi jednorozmerných van der Waalsovských kvantových materiálov z teórie prvých princípov*, PF UPJŠ, Školiteľ: Martin Gmitra
- [2] M. Bencúr, *Modelovanie airglowu pomocou hlbokého učenia*, FEI TUKE, Konzultant: Šimon Mackovjak
- [3] P. Kamenská, *Automatická detekcia TLE na snímkach AMOS pomocou hlbokého učenia*, FEI TUKE, Konzultant: Šimon Mackovjak
- [4] K. Jenčíková, *Automatická detekcia meteorov na rádiových spektrogramoch*, FEI TUKE, Konzultant: Šimon Mackovjak
- [5] V. Jedinák, *Nanomateriály na báze oxidov železa*, PF UPJŠ, Školiteľka: Vlasta Závišová

4. Medzinárodná vedecká spolupráca

4.1. Medzinárodné vedecké podujatia

4.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2022 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

25th Soft Magnetic Materials Conference, Grenoble, France, 150 účastníkov, 02.05.-05.05.2022

The SMM is the largest international conference devoted to soft magnetic materials. It is held every two years in a different country. The conference series has an International Organising Committee. The main aim of the SMM25 was to bring together scientists and engineers from universities, research institutions and industry who are active in research, development and industrial applications of the soft magnetic materials. The programme of the conference included invited lectures by academic and industrial experts, oral presentations and poster sessions for regular contributions. The proceedings of SMM25 will be published as Special Issue in Journal of Magnetism and Magnetic Materials (Elsevier) at the beginning of 2023.

1st Workshop on Perspective Electron Spin Systems for Future Quantum Technologies, Košice, Slovensko, 25 účastníkov, 28.06.-29.06.2022

Workshop bol organizovaný Prírodovedeckou fakultou Pavla Jozefa Šafárika v Košiciach a Ústavom experimentálnej fyziky Slovenskej akadémie vied, v. v. i. v Košiciach s finančnou podporou Agentúry na podporu výskumu a vývoja. Ústrednými témami konferencie boli súčasné problémy kvantovej fyziky - kvantovej teórie magnetizmu spinových a elektrónových štruktúr, exotických kvantových spinových stavov, kvantového previazania, kvantových fázových prechodov, topologického kvantového počítania a kvantového spracovania informácie. Účastníci workshopu prezentovali originálne pôvodné výsledky svojho výskumu, ktoré môžu zásadným spôsobom ovplyvniť vývoj budúcich kvantových technológií.

EMP User meeting 2022, Štrbské Pleso, Vysoké Tatry, Slovensko, 52 účastníkov, 18.09.-22.09.2022

The aims of the fourth EMP User meeting 2022 are similar as all three previous ones: to bring together current and hopefully also other potential future users of experimental facilities provided by the EMP consortium and inform each other on achievements, results obtained and problems raised with implementation of the TNA activity.

This 3 days workshop served as a good tool and place for the exchange of ideas and information. But not only for this: we also hope that fruitful discussions and sharing our individual TNA experiences with each other have supported the dissemination of the idea of the TNA activity, and in the end also help to attract new external users. We also included a session focussed on innovation and technological activities covered by the tasks INNO Work Package. Here, academic, technical and industrial partners who are working together on development techniques and technologies and their transfer from the lab bench to commercial products attended this meeting.

7th International Conference “Models in Quantum Field Theory” (MQFT-2022), Petrohrad, Rusko, 50 účastníkov, 10.10.-14.10.2022

MQFT is a biennially held international conference this year dedicated to the 82nd anniversary of professor Alexander Nikolaevich Vasiliev (1940-2006) and 80th anniversary of professor Vladimir Dmitrievich Lyakhovsky (1942-2020). From year to year, the conference attracts the most distinguished members of the world-famous centres for theoretical physics. The main topics of the conference are related to the most actual and important problems related to the construction and investigation of the quantum field theory models. During the conference, it is proposed to discuss the modern methods of QFT and applications of these methods to the elementary particle physics and statistical physics, gravitation and cosmology, mathematical problems and methods in quantum field theory, and integrable models.

During the conferences, the special importance is placed upon the methods and approaches created and developed by the researchers of “Vasiliev scientific school”, the school of theoretical physics that was established by Alexander Nikolaevich Vasiliev and has since then acquired an international scope. Currently, as many as 10 professors and 20 Ph.D. researchers belong to the school. Their successful work in the field of theoretical physics is conducted either in Russia or around the world, many of them have developed their own methods and approaches and acquired many students of their own. Results obtained by A.N.Vasiliev and his followers revealed the deep intrinsic affinity between classical complex systems with many degrees of freedom and quantum objects, which allowed to apply successfully the powerful mathematical methods of the quantum field theory to the phenomena of seemingly completely different nature.

This year the conference included an extended section on the mathematical foundations of quantum field theory that is dedicated to the 80th anniversary of professor Vladimir Dmitrievich Lyakhovsky (1942-2020), who was a close friend of Alexander Nikolaevich Vasiliev and the organizer of the first MQFT conferences. In this section we welcome contributions that are related to the scientific interests of Vladimir Dmitrievich: representation theory, symmetries in QFT, quantum integrable systems, quantum groups.

Small Triangle Meeting on theoretical physics STM 2022, Medzilaborce, Slovensko, 50 účastníkov, 25.10.-28.10.2022

This was already the 22th traditional international meeting since 1999. The main goal of this event was focused on the last results in theoretical and phenomenological physics including various research areas (solid state physics, high energy particle physics, complex systems, mathematical modeling of computational physics, etc).

4.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2023 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

International conference Structure and Stability of Biomacromolecules/Medzinárodná konferencia Štruktúra a stabilita biomakromolekul, Košice, Slovensko, 05.09.-08.09.2023, (Diana Fedunová, 055/792 2336 (1.12a, BUL6), fedunova@saske.sk)

4.1.3. Počet pracovníkov v programových a organizačných výboroch medzinárodných konferencií

Tabuľka 4a Programové a organizačné výbory medzinárodných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Bednarčík Jozef	0	0	1
Človečko Marcel	0	1	0
Gabáni Slavomír	0	1	0
Hnatič Michal	0	0	3
Kačmarčík Jozef	0	1	0
Pristáš Gabriel	0	1	0
Skyba Peter	0	0	1
Škorvánek Ivan	1	2	0
Vargaeštoková Zuzana	0	1	0
Vargová Hana	0	1	0
Zentková Mária	0	0	1
Spolu	1	8	6

4.2. Členstvo a funkcie v medzinárodných orgánoch

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

Ing. Ján Baláž, PhD.

COSPAR (Committee on Space Research) (funkcia: člen národného výboru)
International Academy of Astronautics (funkcia: Full Member)

RNDr. Zuzana Bednáriková, PhD.

Asociácia európskych biofyzikálnych spoločností (funkcia: člen)

doc. RNDr. Dušan Bruncko, CSc.

Kolaboračná rada experimentu ATLAS v CERN (funkcia: člen)

RNDr. Diana Fedunová, PhD.

European Biophysical Societies Association (funkcia: člen)

doc. RNDr. Karol Flachbart, DrSc., akademik US Slovenska

Americká fyzikálna spoločnosť (funkcia: člen)
Nemecká fyzikálna spoločnosť (funkcia: člen)

doc. RNDr. Slavomír Gabáni, PhD.

European high pressure research group (funkcia: člen)

doc. RNDr. Zuzana Gažová, DrSc.

European Biophysical Societies Association (funkcia: člen)

prof. Dr.h.c. RNDr. Michal Hnatič, DrSc.

Programový výbor pre tuhé látky, JINR Dubna, RF (funkcia: člen)
Vedecká rada Laboratória informačných technológií pre obhajobu kandidátskych a doktorských prác, JINR Dubna, RF (funkcia: člen)
Vedecká rada JINR Dubna, RF (funkcia: člen)
Vedecko-technická rada Laboratória teoretickej fyziky, JINR Dubna, RF (funkcia: člen)

RNDr. Gabriel Pristáš, PhD.

European High Pressure Research Group (funkcia: člen)

prof. RNDr. Marián Reiffers, DrSc.

„Fellow“ – Institute of physics (funkcia: člen panelov pre prijímanie nových „fellow“)
Európska fyzikálna spoločnosť (funkcia: individuálny člen)
Rada Európskej fyzikálnej spoločnosti (funkcia: člen)

RNDr. Marián Sedlák, DrSc.

American Chemical Society (funkcia: člen)

American Physical Society (funkcia: člen)

RNDr. Peter Skyba, DrSc.

IUPAP C5 Low Temperature Physics (funkcia: člen)

RNDr., Ing. Katarína Šipošová, PhD.

European Biophysical Societies Association (funkcia: člen)

RNDr. Ivan Škorvánek, CSc.

International Organizing Committee for Soft Magnetic Materials (funkcia: predseda)

Magnetism Committee TMS Society USA (funkcia: člen)

4.3. Účasť expertov na hodnotení medzinárodných projektov (EÚ RP, ESF a iných)

Tabuľka 4b Experti hodnotiaci medzinárodné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Hnatič Michal	SÚJV Dubna	1
Kopčanský Peter	Holandská kráľovská učená spoločnosť	2
Nemčík Ján	Člen Odborného orgánu hodnotiteľov - poradného orgánu Rady - Úrad vlády ČR	2
Sedlák Marián	Swiss National Science Foundation (SNSF)	1
Tomašovičová Natália	National Science Center (NCN), Poľsko	7
Urbán Jozef	MŠ MTV ČR	3
Vargová Hana	National Science Center Poland	1

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

NATO G-5683

Projekt sa venuje vývoju a príprave nových nanokompozitov určených pre liečbu chorôb po akútnom ožiarení. Pozornosť sa zameriava na kombinované použitie neobalených nanočastíc oxidu céria (CeO_2 NPs) a vysokoaktívneho uhlíkového enterosorbentu určeného na perorálne užitie. Riešením úloh projektu sme ukázali, že fyzikálno-chemické parametre syntetizovaných CeO_2 NPs je možné kontrolovať vhodnou úpravou reakčných podmienok. Potvrdili sme koreláciu medzi veľkosťou a percentuálnym podielom Ce^{3+} iónov na povrchu častíc, ktoré ovplyvňujú aj ich bioaktivitu. Ukázali sme, že vďaka jedinečným vlastnostiam, schopnosťou ovplyvniť amyloidogézu proteínov a pseudoenzymatickou (antioxidačnou) aktivitou, sú nanočastice CeO_2 vhodným kandidátom pri štúdiu procesov sprevádzajúcich choroby po akútnom ožiarení, ale aj choroby súvisiace s vekom. Významným aspektom pri použití nanočasticových systémov je aj ich odozva na externé elektrické a magnetické pole. Ukázali sme tiež, že aplikácia striedavého a/alebo rotujúceho magnetického poľa vedie k tvorbe tepla v procesoch hypertermie, čím je možné zvýšiť ich terapeutický účinok. Očakávame, že výskum povedie k dizajnu nových účinných (aktívnych) preparátov pripravených na testovanie v predklinických štúdiách.

SK-TW AZCAI

Jedným z najatraktívnejších moderných farmaceutických prístupov je použitie multifunkčných materiálov. V rámci projektu sa zameriavame hlavne na využitie zeolitov na báze klinoptilolitu (CZ). Mezoporézna štruktúra klinoptilolitu umožňuje absorbovať rôzne typy látok, vrátane nanočastíc a teda, CZ-kompozity môžu byť použité ako sľubné biokompatibilné nosiče pre ciele podávanie liečiva s riadeným uvoľňovaním. Skúmali sme a porovnávali vplyv fluorescenčných látok samostatne a aj vo forme kompozitov CZ na amyloidogézu inzulínu, biokompatibilitu, bunkovú metabolickú aktivitu a fluorescenčnú farmakokinetiku. Pozorovaná bola vysoká biokompatibilita a uvoľniteľnosť naviazaných látok z kompozitov smerom k bunkám a tkanivám. Vzhľadom na fotoaktívne vlastnosti použitých farbív môžeme predpokladať ich využiteľnosť aj vo fotodiagnostike a fotodynamickej terapii. Navyše, zeolity disponujú anti-oxidačnou kapacitou, čím môžu prispieť k štúdiu zapojenia oxidačného stresu do chorôb súvisiacich s amyloidogézou a eliminácii negatívnej redoxnej rovnováhy, čo môže byť kritickým krokom pri starnutí a chorobách súvisiacich so starnutím, vrátane amyloidóz. Terapeutický potenciál multikompozitov obsahujúcich magnetické častice, fotoaktívne látky je možné riadiť a kontrolovať, obzvlášť pri ko-aplikácii externého žiarenia, resp. magnetického poľa, ultrazvuku a podobne. Ukázali sme, že aplikácia striedavého a/alebo rotujúceho magnetického poľa vedie k tvorbe tepla v procesoch hypertermie.

MVTS AMAZON

Projekt je zameraný na návrh inovatívneho neinvazívneho prístupu diagnostike a monitorovaniu progresu neurodegeneratívnych ochorení, pre ktoré je charakteristická prítomnosť amyloidných štruktúr, využitím multikompozitov na báze zeolitov. Ukázali sme, že mezoporézna štruktúra zeolitu klinoptilolitu poskytuje jedinečnú platformu na prípravu multifunkčných sond, s anti-amyloidnou aktivitou, ale aj možnosťou využitia cieľeného transportu liečiv, ale aj na optické a magnetické zobrazovanie. Ako perspektívne sa javí tiež využitie vo fototerapii, pri hypertermii so súčasným použitím ultrazvukovej transmisnej tomografie.

Výsledky získané počas celej doby riešenia úloh projektu viedli k publikovaniu 20 pôvodných vedeckých prác a boli podkladom v príprave pokračujúceho projektu MVTS (Azcai „*Anti-amyloid activity of zeolite-based composites and analysis with real-time 3D super-resolution imaging*“).

Dlhodobé pobyty hostí na ÚEF SAV, v. v. i.:

SAIA:

Dr. Edik Ayryan: 1. 10. 2021 - 28. 2. 2022, Rusko

Dr. Koryun Oganessian: 1. 10. 2021 - 30. 11. 2022, Arménsko

Dr. Olena Kyzyma: 1. 11. 2021 - 30. 6. 2022, Ukrajina

Dr. Viktor Petrenko: 1. 11. 2021 - 28. 2. 2022, Ukrajina

Dr. Ameer R.K. Nassrah: 1. 9. 2022 - 30. 11. 2022, India

IMPULZ IM-2021-42:

Dr. Marko Milivojević: 20. 6. 2022 - 19. 8. 2022, Chorvátsko

Dlhodobé pobyty v zahraničí zamestnancov a doktorandov ÚEF SAV, v. v. i.:

SAIA:

RNDr. Miroslav Gančár, PhD.: 1. - 31. 1. 2022, Taliansko

RNDr. Katarína Zakuťanská, PhD.: 1. 2. - 31. 12. 2022, Luxembursko

VISEGRAD-TAIWAN Scholarship:

RNDr. Ing. Katarína Šipošová, PhD.: 2. 5. - 4. 7. 2022, Taiwan

IMPULZ IM-2021-42:

Mgr. Filip Košuth: 12. 7. - 23. 8. 2022, Maďarsko

Prehľad údajov o medzinárodnej mobilite pracovníkov organizácie je uvedený v Prílohe E.

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

5. Koncepcia dlhodobého rozvoja organizácie

5.1. Odporúčania z posledného pravidelného hodnotenia organizácií SAV (akreditácie)

Akreditácia ÚEF SAV, v. v. i. sa konala 20. 10. 2022 v Aule ústavov na Watsonovej 47 v Košiciach. Na základe uznesenia Predsedníctva SAV č. 501.C zo dňa 15. decembra 2022 sa zaraduje ÚEF SAV, v. v. i. do kategórie "B" s charakteristikou:

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

General comments on the Institute performance (2016-2021):

The institute was very successful at the national level with APVV grants, has increased its publication activity and also the citations impact compared to the previous evaluation period. Positive is the increase of publications in Nature index journals. However, IEP members played mainly a supporting role in the publications, not leading. On the international level the members of the institute intensively applied for high-level EU funding, although without greater success. The institute plays a very relevant social function in the region, contributing results of relevant applied research and educating public via popularization and outreach. The PhD programs associated with the institute and the cooperations with universities are very good. The strategies are broadly outlined in 4 main directions, but the corresponding analysis of the structural match is not provided. The research appears too fragmented to be competitive at the EU level, lacking strong focused groups with critical mass to be able to assume leading roles.

Comments and recommendations for further improvement and development of the institute:

- The panel notes that the previous recommendation, "Increase focus on the strategic actions/changes/improvement by setting up measurable goals and milestones" has not been convincingly addressed. This recommendation holds for the next period as well. While further increasing the number of Nature index publications, set a target for the fraction of the publications in which the institute has leading role.
- Consider if focusing on more perspective research directions and deemphasizing/reorienting less exposed ones could lead to the needed critical mass to become potentially leading and competitive on the European scale.
- Access if the fragmented departmental structure is in line with the few strategic directions. Joining some departments and forming strong groups within could be an alternative.
- Introducing research group should be also encouraged in the next period. At the moment there seems to be no systematic policy for their development, so the institute needs to seek potential group leaders actively. Consider introducing a systematic way to form research groups.
- The panel recommends building a more ambitious IAB by appointing renowned scientists - geographically diverse and also with an eye on the gender balance - from relevant disciplines.
- The institute should consider licencing and industrial contracts to enhance its economic and social impact.
- The institute should consider having a regular seminar/colloquium program to help knowledge transfer and informing of current topics.
- Consider further measures to increase the number of PhD students. The institute has taken some steps already.

5.2. Hlavné body Akčného plánu organizácie a stav ich plnenia

Nový Akčný plán ešte nestihol byť vytvorený a schválený VR ÚEF SAV, v. v. i., keďže výsledok akreditácie a s ním spojené odporúčania Metapanelu boli známe až 19. 12. 2022. Nový Akčný plán bude vytvorený v prvej polovici roka 2023.

5.3. Aktualizácia Akčného plánu organizácie v roku 2022

Namiesto aktualizácie Akčného plánu je tu uvedená Stratégia výskumu a budúceho rozvoja ústavu na obdobie ďalších 5 rokov:

The Institute of Experimental Physics (IEP) of the Slovak Academy of Sciences (SAS) in Košice is one of the leading centers for physics-related research in Slovakia. This institute is a home-base for researchers who are nationally and internationally recognized for their contributions to scientific advancement. Research performed at the institute grows gradually in its quality and impact in the long term. In the next period, the institute will strive to keep up with fast changing world in order to respond to challenges the world is facing in technological, environmental and public health domains. Innovations using quantum technology, targeting diverse topics spanning from exploration of vaccines to climate change, have the power to outperform any existing technologies; biotechnology, as another example, enables new solutions in tackling diseases or cleaning up pollution.

The research at the Institute within the next five years will be closely connected to various contemporary challenges. As highlights we mention some of them: we will take part in the national framework for the new rapidly developing field of quantum communication infrastructure and quantum computation; biotechnology will be addressed via development of new textile composite (nano)materials, new therapies for amyloid-related diseases or lab-on-chip applications; environmental issues will be dealt with in research leading to enhancement of energy savings and improvement of energy harvesting, including the development of new hydrogen storage methods for various applications including zero-emissions vehicles. Research groups of the institute will also continue being the important integrant in large international space missions and experiments (ESA JUICE, JEM-EUSO), as well as in ALICE and ATLAS experiments at CERN.

We are also aware that the rising fear of new technologies and lack of public trust in science in general, despite of the tremendous advances they have already provided, may prevent innovations from having the impact they promise. We are committed to increasing the efforts to educate and engage the public to ensure that science and technology truly live up to their potential.

In order to meet our goals and make the most of the effort, the institute will support following activities: i) basic research in order to expand human knowledge, ii) international collaborations, especially (but not exclusively) under the European flagship projects; iii) research activities that have a potential of rapid transfer of knowledge from basic research into innovative products and technologies; iv) expanding the expertise of the research personnel; v) the teaching and training of students at different education stage; vi) the scientific popularization on the regional and national level.

IEP SAS also plans to be active on national/regional level by providing its expertise in the Cassovia New Industry Cluster (CNIC), a very recent endeavour of three Košice universities, three research institutes of SAS (including IEP SAS) established in Košice, University hospital of Košice, Regional government, City of Košice and private companies (<https://cnic.sk>). The goals of the CNIC project are based on a synergy of excellent knowledge presented in the region, and the creation of instrumentation and infrastructure for top research and technology transfer to industry in the fields of biomedicine, materials research, quantum & information technologies, green energy & digital technologies.

Research strategy of the scientific departments

Centre of Low Temperature Physics (CLTP)

CLTP as a member of the most prestigious club of the world low temperature laboratories – the European Microkelvin Platform (EMP) will remain an open access point for academic researchers willing to experiment at ultralow temperatures using unique in house developed infrastructure capable for investigating quantum materials and technologies. Our participation in EMP project shifts the development of unique experimental methods to their cutting edge and opens new collaborations in the field of low temperature physics and quantum technologies. CLTP is a key partner of the Slovak National Research Platform on Quantum Technologies - QUTE (<http://qute.sk>) that is creating a national framework for the new rapidly developing field of quantum communication infrastructure and quantum computation. Just recently, our consortium has applied for a new project – skQCI within EU call: DIGITAL-2021-QCI-01 related to EU Secure Quantum Communication Infrastructure, part of the EuroQCI mission. Realisation of this project will enable to build up the quantum communication infrastructure across the whole country. In the near future we would like to continue and focus our work on forefront research at low and ultra low temperatures and transfer of knowledge from fundamental research to application. In particular, we shall carry on research and application of quantum systems as model structures for study and simulation of physical processes that currently are beyond mankind technological capabilities. We plan to investigate also nontrivial physical processes of various quantum systems that are emerging as a consequence of their topological behaviours, and are represented e.g. by Majorana particles – fundamental elements of Q-bits, by interplay with magnetism, topology and superconductivity, quantum criticality, etc. Our new Impulz project “Topological superconductivity in quantum 2D devices - TopoQ2D” and the new Quantum Materials research laboratory, built in the framework of this project will play a key role in this research. Focus on quantum nanotechnology, quantum materials / systems and quantum communication infrastructure, including quantum computing is going to be a key pillar of research at CLTP IEP SAS in the near future. The research will continue also in investigations of the metallic geometrically frustrated magnetic systems as well as superconducting properties of 3D/2D rare earth borides or high-entropy alloys, respectively.

Department of Materials Physics

The main activity will be focused on REBCO bulk single-grain superconductors. Research will be implemented within national projects (APVV, VEGA) and in cooperation with CAN Superconductors a.s. manufacturer of bulk superconductors and will focus on improving macroscopic superconducting properties in combination with mechanical properties. Special attention will be paid to the study of the possibilities of simultaneous optimization of the efficiency of pinning centres and prevention of crack propagation in these brittle ceramic materials. We will focus on optimizing the particle size distribution of pinning centres in the form of non-conductive particles RE211. Our results to date suggest that an optimized bimodal RE211 particle size distribution may lead to the expected effects. The quality of the boundary between two REBCO bulk crystals grown from two seeds will also be studied to optimize the properties of large multy-seeded REBCO bulks. This activity will be coordinated with cooperating foreign laboratories (mainly University of Cambridge, SIT Tokyo, University of Caen, JIU Shanghai) and we plan to apply for a European project as a partner of CAN Superconductors a.s. In cooperation with a small company RV Magnetics a.s. and Pavol Jozef Safarik University in Košice we will study the structure and microstructure of magnetic Heusler alloys in the form of glass coated micro-wires suitable for application in sensors (joint project).

Department of Magnetism

Magnetic fluids as one of the pioneers of modern nanotechnology are still attractive for basic as well as applied research. Magnetic fluids and their composite systems have stimulated further research, especially in the field where nanoparticles, especially magnetic ones, give them the ability to manipulate them in an external magnetic field, thus changing the properties required in various applications:

- The hybrid materials based on liquid crystals (LCs) doped with magnetic nanoparticles (MNPs) reveal a great potential to improve current liquid crystal-based technologies. In this context, further enhancement of the sensitivity to the magnetic field may be achieved by long-term colloidal stabilization of larger MNPs with improved magnetic properties. Moreover, LC-mediated assembly of nanoparticles may not only lead to LCs with ferromagnetic properties but also to novel and complex, nanoparticle-based superstructures. The parameter space is large which opens up many possibilities for future studies on active matter and programmable liquid constructs.

- Novel alternative cooling and insulating liquid media such as oils based on liquefied natural gas, natural esters and new types of transformer oils. We will prepare novel nanofluids based on these oils by dispersing magnetic nanoparticles (fullerenes, graphene nanoplatelets or carbon nanotubes) for enhancing the cooling effectiveness. The nanofluids will be investigated from dielectric, insulating, magnetic and heat transfer properties point of view. Finally, their cooling effectiveness will be tested in loaded power transformers. Therefore, the future research is believed to contribute to the development of advanced liquid media for cooling and insulation in electrical engineering, the application of which will have a potential impact on electric power saving, electrical equipment service life and protection of the environment.

- The research on ferrofluids for electrical engineering applications will be focused on energy saving and energy harvesting. Novel hybrid ferrofluids based on insulating liquids will be developed with the aim to obtain highly efficient cooling and insulating liquid medium for electrical devices. The research will be also oriented on thermal-to-electric energy conversion by developing ferrofluids based on ionic-liquids; i.e., colloidal dispersions of magnetic nanoparticles in ionic liquids. The third research activity will be devoted to investigation of ferrofluids for mechanic-to-electric energy conversion in wearable devices.

- One of the aims in future research is the development and preparation of new textile composite (nano)materials (usually exhibiting magnetic response), their detailed characterization, and subsequent use in various fields of biosciences, biotechnology, (bio)analytical chemistry, medicine and environmental technologies. (Nano)textile materials can be functionally modified by modifying the polymer, fiber, and textile structures by application of chemical, physical, and biological treatments, in order to develop textile materials applicable in wide range of applications. In addition, the incorporation of ferro- or ferrimagnetic (nano)particles (e.g. magnetite or maghemite (nano)particles by magnetic fluid treatment or using microwave assisted synthesis) or a piece of magnetic iron wire into parts of modified (nano)textiles allows them to be separated very quickly and with 100% recovery even from large volumes of solutions and suspensions, using appropriate magnetic separator. Modified textile materials (both in magnetic and nonmagnetic form) can find very important applications in many areas of biosciences, biotechnology, (bio)analytical chemistry, catalysis, medicine and environmental technology.

We are going to continue in study of multiferroic and another functional materials with perovskite structure in respect to hydrogen storage or application of colloid with nanoparticles for hyperthermia. The future projects will be targeted to substitutional solid solutions and construction of magnetic phase diagrams in RTO_3 system ($R = Nd, Pr, Sm, Tb, Dy$ and $T = Ti, Cr, Mn, Fe$). Oxygen content affects physical properties of this system. The defect structure can be used for hydrogen storage. Experimental techniques like crystal growth of single crystals, synthesis of magnetic nanoparticles and study of various physical properties are complemented by theoretical approach using Density functional theory. Our project will serve as starting point for re-examining the effect of oxygen content on physical properties of $RMnO_3$ multiferroic compounds. The concept of storing hydrogen in the vacancies of these compounds is novel as well smart hyperthermia based on colloid containing magnetic nanoparticles of manganites.

Department of Applied Magnetism and Nanomaterials (DAMN)

The research activities of the DAMN will focus on development of novel soft and hard magnetic nanocrystalline alloys and composites with potentially improved application-oriented properties. Their desired properties will be achieved by targeted compositional, structural and shape modification and by the choice of optimal thermomagnetic treatment. Here of particular interest will

be the employment of two unconventional techniques of thermal processing constructed recently by our group at IEP SAS. We plan to use new facility for ultra-rapid annealing of thin metallic ribbons where typical annealing times take few seconds. High heating rates and much shorter processing times as compared to conventional annealing allow to extend the composition interval where the annealed melt-spun ribbons are still capable to form nanocrystalline structure. The second technique for unconventional thermal processing of materials available at our department is the annealing of materials in presence of high magnetic fields (up to 14 T). We hope that the utilization of the above-mentioned unconventional processing techniques will help us to develop new materials with interesting combination of structural and magnetic properties. Our attention will be also devoted to nanocrystalline alloys in the form of bilayer ribbons prepared by a double-nozzle planar flow casting technique, which offers the possibility of simultaneous formation of two homogeneous layers connected through solid interface, with different composition and uniform thickness along the ribbon length. The resulting bilayer ribbons are interesting for their intrinsically graded functional properties, which can be used in design of specific sensors or actuators.

Department of Biophysics

The long-held structure-function paradigm where well-defined native protein structures are needed for their function has been considered the “Holy Grail” of structural biology for a long time. This approach is valid for structurally well-defined proteins called globular proteins. However, recent data demonstrate a large proportion of the proteins from all domains of life, which are rich in sequences that do not fold into regular structures, commonly known as nonglobular proteins (NGPs). NGPs comprise intrinsically disordered regions, repeats, low-complexity sequences, aggregation-prone and phase-separating sequences. NGPs participate in many biological processes of DNA and RNA binding, transcription, translation, cell-cycle regulation and signaling. NGPs also play a central role in age-related amyloid-related diseases and systemic disorders such as Parkinson's and Alzheimer's and type II diabetes. We plan to understand the protein sequence-structure-dynamics-function relationship at the molecular/atomistic level using biophysical experimental and computational techniques. We will focus on the role of hydrophobic interactions in formation and stability of protein amyloid structures and clarify a link between oxidative stress and amyloid fibril formation. Moreover, we will search for the effective inhibitors of the amyloid aggregation. This integrative approach will provide new therapies for amyloid-related diseases.

Amyloid aggregates formed by proteins also constitute a robust platform with a large potential for engineering applications and novel biomaterials such as amyloid fibril networks, amyloid-based layers or gels for applications such as drug delivery, controlled release of active drugs from amyloid conjugate, tissue repair/engineering, metal nanowires, and biosensors. We will also utilize the full-length native globular proteins such as insulin, lysozyme, and α -lactalbumin to create fibrillar templates and networks with controlled properties. Amyloid structures have a high affinity for a wide range of nanoparticles. We plan to study the potential of amyloid-NPs ((Au, Ag, Pd as core) based hybrid for catalytic properties for reduction, oxidation, or C-C coupling of important industrial reactions.

In parallel, the formation of functional amyloid structures based on spider silk protein will be studied. We plan to engineer spider-amyloid based nanocomposites for biomedical and biotechnological applications (fabricate the spider silk-based nanocomposites able to: a) immobilize proteins; b) act as nanoparticles or drug carriers).

In the near future, we plan to develop biomedical lab-on-chip (LOC) applications based on light-driven mechanical microstructures fabricated by two-photon polymerization and integrated into the microfluidic LOC environment. We are especially focused on flexible (deformable) micro-structures that have not been used in biomedical applications yet. Two well-defined LOC application areas are targeted: micro-rheology and single-cell manipulation. Our main goal is the development of micro-viscometers utilizing the effect of the surrounding fluid medium on the deformation (deflection) of flexible micro-cantilevers. Two types of structures will be prepared: a) anchored to the bottom glass surface and b) optically movable ones placed inside the micro-fluidic system. Such light-driven elastic micro-robots should be able to capture, transport, and release single

live cells. Their function will be automated to build multicellular systems, mimicking the tissue conditions autonomously. To facilitate the flexible microstructure development and optimization, the material properties of the photo-polymers will be determined by comparing experimental deformation data with the results of numerical simulations.

Cancer is the second leading cause of death after cardiovascular disease in almost all European countries. Over the past several decades, the principle types of cancer therapies have been chemotherapy, radiation therapy, and surgery. The magnetic nanoparticles represent great potential in the diagnosis and treatment of cancer due to their unique properties, such as their biocompatibility, simple fabrication technology, and the ability to be manipulated with an external magnetic field. In this context, we plan to continue developing biocompatible multifunctional magnetic nanoparticles and evaluate their diagnostic and therapeutic potential for application in oncology. The first key step to achieving the desired goal will be the synthesis of magnetic nanoparticles and the functionalization of their surface with biocompatible materials suitable for radioactive indicator binding to monitor their biodistribution using radioactive indicator methods in healthy rats. Moreover, the stability of radiolabeled MNPs in vitro will be investigated. The second important goal will be to conjugate chemotherapeutic drugs of natural origin such as betulinic acid and / or hypericin to magnetic nanoparticles as a new approach to cancer treatment. The suitably selected nanoparticles with the immobilized drug could enhance chemotherapy efficacy by increasing drug concentration at the target site, so they could reduce its adverse effects or enhance the detection sensitivity. Moreover, a combination of MRI, hyperthermia, and radiotherapy with magnetic drug targeting could represent a significant advance in cancer disease treatment and a substantial improvement in the survival of oncological patients.

Department of Experimental Chemical Physics

The strategy in this department will be to follow up on the successful patent activity from recent years. Three patents were awarded and three patents are currently pending. Since these patents relate to food safety and drug safety, we plan to work closely with state authorities in the area of contaminants screening and with the private sector in the area of contaminants removal (product purification). Paradoxically, all patent outcomes came from our long-term purely basic research focused on interesting, yet poorly understood and puzzling physical phenomena in chemical systems. Methodologically, our department is focusing on the characterization of macromolecular and nanoparticle systems, especially in situations where the nature/origin of nanoobjects is unknown. Given the commercial infrastructure, original in-house developed methods, and methodological expertise, our department represents a unique workplace in this area at national level. Within the Cassovia New Industry Cluster (CNIC), we plan to broaden our methodology portfolio by acquiring small-angle x-ray scattering (SAXS) equipment. Our research focus will be on potential existence of stable bulk nanobubbles. While it is currently not exactly known if such nanoobjects can really exist and at which conditions, their application potential is tremendous. While microbubbles are currently used as USG contrast agents for blood circulation visualization, nanobubbles would help to visualize tissues, including tumor issues and other pathological tissues since nanobubbles can penetrate the smallest blood vessels.

Department of Space Physics

The research strategy of DSP will in the next years focus on cosmic rays, space weather, and ionospheric research. The objectives are to apply machine learning methods, mainly in the space weather field, and build open-source models with web service for all cosmic rays models developed at DPS in the last decades. We will give high importance to continuation of the experiments and measurements realized by DSP, such as experiments at the detached observatory of the institute at Lomnický štít (neutron monitor, SEVAN), and participation in space experiments as ESA JUICE mission and JEM-EUSO experiment.

Department of Subnuclear Physics

The future research activities of the Department of Subnuclear Physics will continue to be focused on the experimental programme at CERN with the emphasis given to the ALICE and ATLAS experiments. The ALICE experiment underwent a major upgrade of many subdetectors and systems

and is now ready for the forthcoming long data taking period. The ATLAS experiment expects its major upgrade later. In order to reach rarer physical processes, the Large Hadron Collider is lead towards a High Luminosity LHC which will reach its operational stage in around 2029. In the next 5 years physicists from IEP SAS will participate in data taking, hardware and software development and physics analysis, and also in adaptation of all computing facilities - including GRID farm at IEP SAS - to fulfil growing demands. In the more distant future, there are plans to build a successor of the ALICE detector and keep the ATLAS in shape for HL-LHC.

Department of Theoretical Physics

Further theoretical studies in the area of condensed matter physics will be focused on:

- (i) Description of cooperative phenomena in strongly correlated electron and spin systems. The special attention will be paid to specifying the key mechanisms which lead to formation and stabilization of inhomogeneous charge and spin ordering, superconductivity, itinerant ferromagnetism, ferroelectric and magnetocaloric phenomenon due to the big application potential of these phenomena and their possible coexistence. The study will be performed on the comprehensive model, which will take into account all relevant interactions in rare-earth and transition metal compounds, where besides the spin-independent Coulomb interaction in d and f band also the spin dependent (double exchange) interaction between both bands will be included. For a solution of this model we plan to elaborate new numerical methods, which will be subsequently used in combination with standard methods of quantum statistical physics (DMRG and QMC) to study the above-mentioned phenomena.
- (ii) We will continue with investigations of magnetic and thermodynamic properties of various theoretically as well as phenomenologically interesting magnetic frustrated systems. Our aim will be, especially, to investigate in detail the efficiency of the adiabatic (de)magnetization cooling processes in such frustrated magnetic systems. Within the area of non-linear stochastic dynamics, we will continue with the fundamental investigation of the universal scaling properties of various correlation functions of scalar, magnetic, and vector fields in turbulent environments described by Gaussian as well as non-Gaussian statistics of the velocity field with the presence of various types of symmetry breaking.
- (iii) In the next period we will also plan to continue in the study of low-dimensional pure quantum systems with a stress on the study of a quantum and thermal entanglement, magnetocaloric and multicaloric effect. Our interest will be focused on quantum systems with a mixed spin constituent and the size of a quantum system. Beside this, we will contribute to the study of 2D van der Waals materials utilizing state-of-the-art methods.

6. Spolupráca s univerzitami/vysokými školami a inými subjektmi v oblasti vedy a techniky, okrem aktivít uvedených v kap. 2, 3, 4

6.1. Spoločné pracoviská organizácie

6.1.1. Spolupráca s univerzitami/VŠ (fakultami)

Názov univerzity/vysokej školy a fakulty: Fakulta elektrotechniky a informatiky TUKE

Oblasť spolupráce: analýza obrazu

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2008

Zhodnotenie: Spoločný projekt APVV - Fakulta elektrotechniky a informatiky TUKE a Prírodovedecká fakulta UPJŠ sú spoluriešitelia.

Názov univerzity/vysokej školy a fakulty: Fakulta elektrotechniky a informatiky TUKE

Oblasť spolupráce: Kozmická fyzika, rozpoznávanie vzorov

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2015

Zhodnotenie: Spoločná účasť v JEM-EUSO kolaborácii, participácia na príprave JEM-EUSO experimentu.

Názov univerzity/vysokej školy a fakulty: Fakulta materiálov, metalurgie a recyklácie TUKE

Oblasť spolupráce: Materiálová fyzika

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 1969

Zhodnotenie: Spolu s Ústavom materiálového výskumu SAV v Košiciach spoločné využívanie experimentálnej techniky.

Názov univerzity/vysokej školy a fakulty: Jesseniova lekárska fakulta UK v Martine

Oblasť spolupráce: Biomedicína

Sídlo spoločného pracoviska (ak je vytvorené): Martinské centrum pre biomedicínu

Začiatok spolupráce: 2021

Zhodnotenie: Spolupráca v oblasti MRI analýzy pripravených funkcionalizovaných vzoriek, štúdiom ich fyzikálno-chemických vlastností s cieľom pripraviť kontrastné látky pri zobrazovaní magnetickou rezonanciou.

Názov univerzity/vysokej školy a fakulty: Lekárska fakulta UPJŠ

Oblasť spolupráce: Diagnostický potenciál slz v očnom lekárstve

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2018

Zhodnotenie: Spolupráca v oblasti nových neinvazívnych metód pre diagnostiku chorôb zo slz.

Názov univerzity/vysokej školy a fakulty: Letecká fakulta TUKE

Oblasť spolupráce: Spoločné experimenty a vzájomné využívanie experimentálnej techniky.

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2016

Zhodnotenie: Spoločný VEGA projekt s uvedeným zameraním.

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UPJŠ

Oblasť spolupráce: Fyzika tuhých látok

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 1999

Zhodnotenie: Dlhodobá spolupráca v oblasti štúdia mikroštruktúry a magnetických vlastností nanokryštalických kompozitných materiálov a systémov magnetických nanočastíc.

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UPJŠ

Oblasť spolupráce: Fyzika veľmi nízkych teplôt

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 1969

Zhodnotenie: Centrum fyziky veľmi nízkych teplôt Košice je spoločné pracovisko ÚEF SAV a UPJŠ, ktoré je tiež Centrom excelentnosti SAV a UPJŠ, ktoré umožňuje spoločné využívanie experimentálnej techniky.

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UPJŠ

Oblasť spolupráce: Úloha mitochondriálnych elektrón-transportných proteínov v procesoch starnutia a neurodegeneratívnych ochoreniach

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2014

Zhodnotenie: Dlhodobá spolupráca na spoločných vedeckých projektoch a príprava spoločného pracoviska v rámci TIP UPJŠ Košice.

Názov univerzity/vysokej školy a fakulty: Univerzita Komenského v Bratislave

Oblasť spolupráce: Štúdium inhibítorov amyloidnej agregácie proteínov

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2011

Zhodnotenie: Spolupráca v oblasti štúdia amyloidnej agregácie proteínov, in vitro a in silico štúdium inhibítorov amyloidnej agregácie.

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

6.1.2. Spoločné pracoviská s inými organizáciami SAV

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

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

Názov inštitúcie: „Vinča“ Institute of Nuclear Sciences, National Institute of the Republic of Serbia, University of Belgrade

Oblasť spolupráce: jadrová a subjadrová fyzika

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2022

Zhodnotenie:

Názov inštitúcie: Biologické centrum Akadémie vied České republiky, v.v.i. (AVČR), České Budějovice

Oblasť spolupráce: biofyzika

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2019

Zhodnotenie:

Názov inštitúcie: College of Photonics, National Chiao Tung University, Taiwan

Oblasť spolupráce: nanomateriály

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2019

Zhodnotenie:

Názov inštitúcie: D. Mendeleev University of Chemical Technology, Moscow, Russia

Oblasť spolupráce: chemická fyzika

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2019

Zhodnotenie:

Názov inštitúcie: Faculty of Sciences and Technology, University of the Algarve, Faro, Portugal

Oblasť spolupráce: materiálová veda

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2021

Zhodnotenie:

Názov inštitúcie: Faculty of Sciences, Dr K C Patel R & D Center & PD Patel Institute of Applied Sciences, Charotar University of Science and Technology, Charusat Campus-Changa 388421 Dist. Anand, Gujarat India

Oblasť spolupráce: bio- a nano- materiály

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2020

Zhodnotenie:

Názov inštitúcie: Institute of Transport System and Technologies, National Academy of Science of Ukraine, Dnipro, Ukraine

Oblasť spolupráce: transportné systémy a technológie

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2020

Zhodnotenie:

Názov inštitúcie: Spojený ústav jadrových výskumov (SÚJV) v Dubne pri Moskve, Rusko

Oblasť spolupráce: jadrová a subjadrová fyzika

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2021

Zhodnotenie:

Názov inštitúcie: Taras Shevchenko National University of Kyiv, Ukraine

Oblasť spolupráce: nanomateriály a ferokvapaliny

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2017

Zhodnotenie:

Názov inštitúcie: The Fundación Bcmaterials – Basque Center For Materials, Applications and Nanostructures, Leioa (Biscay), Spain

Oblasť spolupráce: nanomateriály

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2021

Zhodnotenie:

Názov inštitúcie: Užgorodská národná univerzita (UžNU), Užgorod, Ukrajina

Oblasť spolupráce: ferokvapaliny

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2021

Zhodnotenie:

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

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

6.4. Iné typy spoločných aktivít s inštitúciami mimo SAV

Spolupráca ÚEF SAV, v. v. i. s technologickými spoločnosťami:

GlobalLogic (A Hitachi Group Company) -<https://www.globallogic.com/sk/>

V čom spočíva táto spolupráca: Spolupráca v rámci projektu ESA / PECS pri vývoji softvérovej služby ASPIS (Autonomous Service for Prediction of Ionospheric Scintillations).

Q-Products, a.s., Bratislava

V čom spočíva táto spolupráca: Vývoj (FEA analýzy) a výroba precíznych mechanických komponentov pre kozmické vedecké prístroje na 5-osových obrábacích centrách a laserovými technológiami. Dodal mechanické komponenty pre misiu ESA-BepiColombo (teraz na ceste k Merkúru), a pre budúce misie Luna-26 na Mesiac a magnetosférickú misiu Resonance. (t. č. v príprave ďalšia objednávka pre Luna-26).

DETES, s.r.o., Selce

V čom spočíva táto spolupráca: Detektory ionizujúceho žiarenia, polovodičové, scintilačné, nukleárna elektronika, mechanika, budovanie testovacej kozmickej infraštruktúry ÚEF SAV, v. v. i. Dodal polovodičové detektory a kozmicky kvalifikované elektronické komponenty pre vesmírne misie, významne prispel k budovaniu detektora SEVAN pre Observatórium kozmického žiarenia na Lomnickom štíte.

CAN SUPERCONDUCTORS s.r.o. Kamenice, ČR

V čom spočíva táto spolupráca: Spolupráca pri výskume a vývoji REBCO masívnych monokryštalických supravodičov v rámci uzavretej dohody o spolupráci. Podali sme bilaterálny výskumno-vývojový APVV projekt a predpokladáme spoločné zapojenie do 9. rámcového programu EÚ pre výskum a inovácie „Horizont Európa“ (2021-2027).

RV Magnetics s.r.o. Hodkovce, Slovensko

V čom spočíva táto spolupráca: Výskum a vývoj magnetických materiálov na báze Heuslerových zliatin pre senzoriku.

7. Aplikácia výsledkov výskumu v spoločenskej a hospodárskej praxi

7.1. Výsledky výskumu organizácie aplikované v spoločenskej a hospodárskej praxi

7.2. Kontraktový – zmluvný výskum (vrátane zahraničných kontraktov)

Názov/účel kontraktového výskumu: Expertízna činnosť pre spoločnosť Miba Sinter Slovakia s.r.o., Dolný Kubín v oblasti komplexnej charakterizácie dc- a ac-magnetických vlastností a energetických strát magneticky mäkkých jadier pripravených lisovaním práškových materiálov na báze železa.

Zadávateľ výskumného kontraktu: Miba Sinter Slovakia s.r.o.

Začiatok spolupráce: 2022

Ukončenie spolupráce: trvá

Finančný prínos pre organizáciu (€): 6780

7.3. Iné formy aplikácie výsledkov výskumu v spoločenskej a hospodárskej praxi

Oddelenie aplikovaného magnetizmu a nanomateriálov:

Nadviazanie spolupráce s medzinárodnou spoločnosťou Garrett Motion Sarl, Switzerland (podpis Non-Disclosure Agreement 09/2022)

Oddelenie biofyziky: Analýza biomedicínskych obrazov amikro-biorobotika:

Existuje intenzívny výskum liečby chronickej neuropatickej bolesti na báze génovej terapie. Nový spôsob transportu liečiv (do subpiálnej vrstvy miechy) zvyšuje účinnosť génovej terapie. Mení funkciu neurónov z excitačnej na inhibičnú (významne znižuje vnímanie bolesti). Pomocou množstva metód bolo potrebné dokladovať prípadné vedľajšie účinky (nebolizaznamenané). Náš prínos: vývoj softvéru na monitorovanie pohybu laboratórných zvierat a na morfológickú analýzu neurónov. Publikované v Molecular Therapy, IF = 12.91).

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

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

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

Meno pracovníka	Názov orgánu	Funkcia
Ing. Ján Baláž, PhD.	Komisia pre vesmírne aktivity pri MŠVVŠSR	člen
RNDr. Ivan Králik, CSc.	Výbor pre spoluprácu s CERN	tajomník
prof., RNDr. Peter Samuely, DrSc., akademik US Slovenska	Komisia na posudzovanie návrhov na udelenie štátnych vyznamení	člen
	Hodnotiaca komisia Vedec roka	člen
	Komisia pre posudzovanie návrhov na udelenie Ceny za vedu a techniku	člen
	Komisia pre európsku vednú politiku MŠVVaŠ	člen
	Slovenská komisia pre vedecké hodnosti	člen
RNDr. Pavol Stríženec, CSc.	Výbor pre spoluprácu s CERN	predseda
	European Committee for Future Accelerators	člen
	Kolaboračná rada LAr detektora experimentu ATLAS	predseda

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

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
doc. RNDr. Zuzana Gažová, DrSc.	Kooperačná rada akademického sektora a inovačných subjektov Rady partnerstva Košického kraja	členka
prof., RNDr. Peter Samuely, DrSc., akademik US Slovenska	Rada APVV pre prírodné vedy	predseda rady

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

9. Vedecko-organizačné a popularizačné aktivity

9.1. Vedecko-popularizačná činnosť

Tabuľka 9a Súhrnné počty vedecko-popularizačných činností organizácie SAV

Typ	Počet	Typ	Počet	Typ	Počet
prednášky/besedy	37	tlač	4	TV	7
rozhlas	11	internet	7	exkurzie	0
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	0
iné	9				

9.2. Vedecko-organizačná činnosť

Tabuľka 9b Vedecko-organizačná činnosť

Názov podujatia	Domáca/ medzinárodná	Miesto	Dátum konania	Počet účastníkov
26. konferencia slovenských fyzikov	domáca	Prírodovedecká fakulta UPJŠ, Košice	05.09.-08.09.2022	92
XLIII. Dni radiačnej ochrany	domáca	Hotel Akadémia, Stará Lesná, Vysoké Tatry	19.09.-23.09.2022	30
25th Soft Magnetic Materials Conference	medzinárodná	Grenoble, France	02.05.-05.05.2022	150
1st Workshop on Perspective Electron Spin Systems for Future Quantum Technologies	medzinárodná	Košice, Slovensko	28.06.-29.06.2022	25
EMP User meeting 2022	medzinárodná	Štrbské Pleso, Vysoké Tatry, Slovensko	18.09.-22.09.2022	52
7th International Conference "Models in Quantum Field Theory" (MQFT-2022)	medzinárodná	Petrohrad, Rusko	10.10.-14.10.2022	50
Small Triangle Meeting on theoretical physics STM 2022	medzinárodná	Medzilaborce, Slovensko	25.10.-28.10.2022	50

9.3. Účasť na výstavách

9.4. Účasť v programových a organizačných výboroch národných konferencií

Tabuľka 9c Programové a organizačné výbory národných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Gažová Zuzana	1	0	0
Spolu	1	0	0

9.5. Členstvo v redakčných radách časopisov

Ing. Pavel Diko, DrSc., akademik US Slovenska

Ceramic Sciences and Engineering (funkcia: Executive Board Member)
MDPI Materials (funkcia: Editorial Board Member)

doc. RNDr. Karol Flachbart, DrSc., akademik US Slovenska

Acta Electrotechnica et Informatica (funkcia: člen redakčnej rady)

doc. RNDr. Zuzana Gažová, DrSc.

Frontiers in Cell and Developmental Biology (funkcia: členka redakčnej rady)
Frontiers in Cell and Developmental Biology (funkcia: členka redakčnej rady)
Frontiers in Molecular Biosciences (funkcia: členka redakčnej rady)

prof. Dr.h.c. RNDr. Michal Hnatič, DrSc.

Discrete Model and Continuous Model and Applied Computational Science (funkcia: člen)
Mathematical Modelling and Geometry (funkcia: člen)
MDPI Symmetry (funkcia: člen redakčnej rady)
MDPI Symmetry: špeciálne čísla Particle Physics I, II, (funkcia: hosťujúci editor)
Vedecko-technická rada Laboratória informačných technológií, JINR Dubna, RF (funkcia: člen)
Vestník of Saint Petersburg University (funkcia: člen)

MUDr. Andrey Musatov, DrSc.

Chemical Papers (funkcia: vedecký editor)

prof., RNDr. Peter Samuely, DrSc., akademik US Slovenska

Physica C (funkcia: člen Advisory board)

RNDr. Marián Sedlák, DrSc.

Frontiers in Soft Matter (funkcia: associate editor)

RNDr. Peter Skyba, DrSc.

Acta Physica Slovaca (funkcia: člen)

RNDr. Ivan Škorvánek, CSc.

Journal of Magnetism and Magnetic Materials (funkcia: Guest Editor, special issue: Advances in Soft Magnetic Materials)
Magnetochemistry (funkcia: člen Editorial Board)

RNDr. Natália Tomašovičová, CSc.

Materials MDPI (funkcia: hosťujúci editor)

9.6. Činnosť v domácich vedeckých spoločnostiach

RNDr. Andrea Antošová, PhD.

Slovenská biofyzikálna spoločnosť (funkcia: člen)

Ing. Ján Baláž, PhD.

Vedecká rada Astronomického ústavu SAV (funkcia: člen)

Vedecká rada pri Komisii pre vesmírne aktivity MŠVVŠ SR (funkcia: člen)

RNDr. Zuzana Bednáriková, PhD.

Slovenská biofyzikálna spoločnosť (funkcia: člen)

RNDr. Barbora Borovská

Slovenská biofyzikálna spoločnosť (funkcia: člen)

RNDr. Diana Fedunová, PhD.

Slovenská biofyzikálna spoločnosť (funkcia: predseda revíznej komisie)

Slovenská spoločnosť pre biochémiu a molekulárnu biológiu (funkcia: člen)

doc. RNDr. Karol Flachbart, DrSc., akademik US Slovenska

Slovenská fyzikálna spoločnosť (funkcia: člen)

Učená spoločnosť Slovenska (funkcia: člen)

doc. RNDr. Slavomír Gabáni, PhD.

Slovenská fyzikálna spoločnosť (funkcia: člen)

RNDr. Ivana Garčárová

Slovenská biofyzikálna spoločnosť (funkcia: člen)

doc. RNDr. Zuzana Gažová, DrSc.

Slovenská biofyzikálna spoločnosť (funkcia: člen)

Slovenská biofyzikálna spoločnosť (funkcia: člen výboru)

Slovenská spoločnosť pre biochémiu a molekulárnu biológiu (funkcia: člen)

prof. Dr.h.c. RNDr. Michal Hnatič, DrSc.

Vedecká rada Fyzikálneho ústavu SAV (funkcia: člen)

RNDr. Alena Juríková, CSc.

Slovenská fyzikálna spoločnosť (funkcia: člen)

RNDr. Jana Kubacková, PhD.

Slovenská biofyzikálna spoločnosť (funkcia: člen)

RNDr. Jozef Marek, PhD.

Slovenská biofyzikálna spoločnosť (funkcia: člen)

RNDr. Marián Mihalik, CSc.

Slovenská fyzikálna spoločnosť (funkcia: člen)

MUDr. Andrey Musatov, DrSc.

Slovenská biofyzikálna spoločnosť (funkcia: člen)

RNDr. Gabriel Pristáš, PhD.

Slovenská fyzikálna spoločnosť (funkcia: člen)

prof. RNDr. Marián Reiffers, DrSc.

Národný komitét IUPAP (funkcia: člen)
Slovenská fyzikálna spoločnosť (funkcia: člen)

RNDr. Peter Skyba, DrSc.

Národný komitét IUPAP (funkcia: člen)
Slovenská fyzikálna spoločnosť (funkcia: člen)

RNDr., Ing. Katarína Šipošová, PhD.

Slovenská biofyzikálna spoločnosť (funkcia: člen)
Slovenská spoločnosť pre biochémiu a molekulárnu biológiu (funkcia: člen)

RNDr. Ivan Škorvánek, CSc.

Humboldtov klub v SR (funkcia: podpredseda)
Národný komitét IUPAP (funkcia: podpredseda)
Odborná skupina Magnetizmu pri Slovenskej fyzikálnej spoločnosti (funkcia: vedúci)

RNDr. Milan Timko, CSc.

Slovenská fyzikálna spoločnosť (funkcia: člen výboru)

RNDr. Natália Tomašovičová, CSc.

Slovenská fyzikálna spoločnosť (funkcia: člen)

RNDr. Hana Vargová, PhD.

Slovenská fyzikálna spoločnosť (funkcia: člen)

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

Od 22. do 24. augusta 2022 sa v Košiciach už po štvrtý krát konala letná škola **“SPACE::LAB summer school”**. Na pôde Ústavu experimentálnej fyziky SAV, v. v. i. sa stretlo 20 záujemcov o výskum vesmíru a informačné technológie. Tento ročník s názvom *“Merging Space & IT”* mal za úlohu prepájať ľudí, know-how, zručnosti a myšlienky z domény výskumu vesmíru a IT sektora.

10. Činnosť knižnično-informačného pracoviska

10.1. Knižničný fond

Tabuľka 10a Knižničný fond

Knižničné jednotky spolu		3 277
z toho	knihy a zviazané periodiká	3 236
	audiovizuálne dokumenty	
	elektronické dokumenty (vrátane digitálnych)	7
	mikroformy	
	iné špeciálne dokumenty - dizertácie, výskumné správy	24
	Rukopisy, vzácne tlače	
Počet titulov dochádzajúcich periodík		
z toho zahraničné periodiká		
Ročný prírastok knižničných jednotiek		12
v tom	kúpou	12
	darom	
	výmenou	
	bezodplatným prevodom	
	náhradou	
Úbytky knižničných jednotiek		
Knižničné jednotky spracované automatizovane		

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“.

10.2. Výpožičky a služby

Tabuľka 10b Výpožičky a služby

Výpožičky spolu (riadok 1)		970
v tom z r. 1	prezenčné výpožičky	
	absenčné výpožičky	970
v tom z r. 1	odborná literatúra pre dospelých	970
	výpožičky periodík	
MVS iným knižniciam		
MVS z iných knižníc		
MMVS iným knižniciam		
MMVS z iných knižníc		
Počet vypracovaných bibliografií		
Počet vypracovaných rešerší		

10.3. Používatelia

Tabuľka 10c Používatelia

Registrovaní používatelia	80
Návštevníci knižnice spolu (bez návštevníkov podujatí)	58

10.4. Iné údaje

Tabuľka 10d Iné údaje

On-line katalóg knižnice na internete (1=áno, 0=nie)	0
Náklady na nákup knižničného fondu v €	2 211,56

10.5. Iné informácie o knižničnej činnosti

11. Aktivity v orgánoch SAV

11.1. Členstvo vo Výbore Snemu SAV

11.2. Členstvo v Predsedníctve SAV a vo Vedeckej rade SAV

prof., RNDr. Peter Samuely, DrSc., akademik US Slovenska

- člen Vedeckej rady SAV
- podpredseda SAV pre vedu, výskum a inovácie

11.3. Členstvo v komisiách SAV

Ing. Viktor Kočan

- Komisia SAV pre informačné a komunikačné technológie (člen)

prof., RNDr. Peter Samuely, DrSc., akademik US Slovenska

- Akreditačná komisia SAV (predseda)
- Komisia pre stratégiu rozvoja SAV (člen)
- Porota pre udeľovanie Medzinárodnej ceny SAV (predseda)

Mgr. Pavol Szabó, CSc.

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

11.4. Členstvo v orgánoch VEGA

Ing. Pavel Diko, DrSc., akademik US Slovenska

- Komisia VEGA č. 7. pre strojárstvo a materiálové inžinierstvo (člen)

prof. Dr.h.c. RNDr. Michal Hnatič, DrSc.

- Komisia VEGA, č. 1 (člen)

RNDr. Ivan Králik, CSc.

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

RNDr. Marián Mihalik, CSc.

- Komisie VEGA č. 7 pre strojárstvo a príbuzné odbory informačných a komunikačných technológií a materiálové inžinierstvo (člen)

MUDr. Andrey Musatov, DrSc.

- Komisia č.3 pre chemické vedy, chemické inžinierstvo a biotechnológie VEGA (člen komisie)

12. Hospodárenie organizácie

12.1. Výdavky organizácie

Tabuľka 12a Výdavky organizácie (skutočnosť k 31. 12. 2022 v €)

Typ organizácie (v. v. i.)	Zdroje, z ktorých sa kryli jednotlivé výdavky				
Výdavky	Spolu	kapitola SAV (111)	iné štátne a verejné zdroje	ostatné zdroje	% krytia z kapitoly SAV
1. Bežné výdavky	4 068 639,54	3 179 932,31	583 273,98	305 433,25	78,16
z toho: mzdy (610)	2 068 737,26	1 826 493,00	180 629,00	61 615,26	88,29
vedecká výchova štipendiá (640)	146 059,50	142 759,50	500,00	2 800,00	97,74
poistné a príspevok do poisťovní (620)	724 342,35	634 218,79	62 809,07	27 314,49	87,56
tovary a služby (630)	1 018 907,70	550 374,29	274 829,91	193 703,50	54,02
transfery partnerom projektov (640)	84 506,00	0,00	64 506,00	20 000,00	0,00
2. Kapitálové výdavky	308 188,71	71 921,20	232 009,91	4 257,60	23,34
z toho: obstarávanie kapitálových aktív	308 188,71	71 921,2	232 009,91	4 257,6	23,34
kapitálové transfery	0,00	0,00	0,00	0,00	0,00

12.2. Zdroje financovania organizácie

Tabuľka 12b Zdroje financovania organizácie (skutočnosť k 31. 12. 2022 v €)

Typ organizácie (v. v. i.)	Z toho kategórie				
Zdroje	Spolu	Kapitálové zdroje	zdroje na mzdy (610)	zdroje na odvody do poisťovní (620)	zdroje na transfery partnerom projektov
1. kapitola SAV (111)	3 251 853,51	71 921,20	1 826 493,00	634 218,79	0,00
z toho: VEGA	184 401,00	0,00	0,00	70,87	0,00
MVTS výskumné projekty	118 833,00	31 924,00	0,00	1 769,55	0,00
MVTS podpora	2 500,00	0,00	0,00	0,00	0,00
SASPRO/MOREPRO/IMPULZ	108 747,20	39 997,20	37 687,00	14 057,16	0,00
Vydávanie časopisov	0,00	0,00	0,00	0,00	0,00
Vedecká výchova (štipendiá)	142 759,50	0,00	0,00	0,00	0,00
OTAS (630)	207 814,29	0,00	0,00	1 022,46	0,00

2. ŠF EÚ vr. fin. zo ŠR	408 553,90	212 209,91	80 400,00	28 051,83	0,00
3. medzinárodné grantové projekty	140 177,76	2 055,60	58 655,26	26 274,49	20 000,00
z toho: H2020	73 876,76	0,00	37 855,00	17 421,68	0,00
4. iné štátne a verejné zdroje (spolu)	472 637,85	19 800,00	100 229,00	34 757,24	64 506,00
z toho: APVV	320 137,85	0,00	95 229,00	33 053,24	64 506,00
podpora z kapitoly MŠVVaŠ SR (stimuly)	152 500,00	19 800,00	5 000,00	1 704,00	0,00
5. ostatné zdroje	26 856,75	2 202,00	2 960,00	1 040,00	0,00
z toho: príjmy z prenájmu	0,00	0,00	0,00	0,00	0,00
príjmy z podnikateľskej činnosti	0,00	0,00	0,00	0,00	0,00
príjmy z expertnej činnosti a služieb	15 156,75	2 202,00	2 960,00	1 040,00	0,00

13. Nadácie a fondy pri organizácii SAV

14. Informácie o aktivitách súvisiacich s uplatňovaním princípov rodovej rovnosti

ÚEF SAV, v. v. i. uplatňuje princípy rodovej rovnosti podľa Plánu rodovej rovnosti SAV 2021 - 2024 schváleného uznesením Predsedníctva SAV č. 176. C dňa 9. 12. 2021 a následne aj VR ÚEF SAV, v. v. i. 18. 1. 2022.

V priebehu roku 2022 bola navrhnutá aktualizovaná verzia Plánu rodovej rovnosti SAV zohľadňujúca dodatočné zistenia rodového auditu SAV a priebehu implementácie projektu ATHENA/Horizont 2020.

Dodatok č. 1. bol schválený uznesením P SAV č. 463 C dňa 15. 12. 2022.

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

Konkrétne ÚEF SAV, v. v. i. uplatňuje princípy rodovej rovnosti tak, že zamestnanci sú hodnotení na základe pracovných výsledkov. Vyvíja stratégiu na zabezpečenie rodovej rovnováhy v riadiacich orgánoch ústavu a vytvorenie takých pracovných podmienok, ktoré umožnia zosúladienie práce s osobným životom a starostlivosťou o rodinu.

14.2. Rodová skladba hlavných riešiteľov (vedúcich) projektov

Tabuľka 14a 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	22	16	6	4	2	2
2. Projekty APVV	8	6	2	6	4	2
3. Projekty EŠIF/OP ŠF	3	2	1	2	0	2
4. Projekty SASPRO, MoRePro, IMPULZ	1	1	0	0	0	0
5. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)	3	2	1	0	0	0

Tabuľka 14b 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
1. Projekty Horizont 2020 a Horizont Európa	0	0	0	1	1	0
2. Projekty ERA.NET, ESA, JRP	6	5	1	7	6	1
3. Projekty COST	0	0	0	4	3	1
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	3	2	1	1	1	0
5. Projekty v rámci medzivládnych dohôd	0	0	0	0	0	0
6. Bilaterálne projekty MAD, Mobility, Open Mobility	12	9	3	0	0	0
7. Bilaterálne projekty ostatné	1	0	1	1	1	0
8. Podpora MVTS z národných zdrojov okrem SAV (APVV a iné)	2	0	2	0	0	0
9. SAS-UPJŠ ERC Visiting Fellowship Grants	0	0	0	0	0	0
10. Iné projekty	1	1	0	0	0	0

14.3. Výskum zameraný na rodovú problematiku

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 C.

15. Iné významné činnosti organizácie SAV

16. Vyznamenania, ocenenia a ceny udelené pracovníkom organizácie v roku 2022

16.1. Domáce ocenenia

16.1.1. Ocenenia SAV

Bednáríková Zuzana

Cena v Súťaži mladých vedeckých pracovníkov SAV do 35 rokov

Oceňovateľ: P SAV

Opis: 1. miesto v Súťaži mladých vedeckých pracovníkov SAV do 35 rokov, jún 2022

Gažová Zuzana a kol.

Cena SAV za výsledky vedecko-výskumnej práce

Oceňovateľ: P SAV

Opis: Cena SAV za výsledky vedecko-výskumnej práce kolektívu výskumnej skupiny Amyloidné štruktúry proteínov z Oddelenia biofyziky ÚEF SAV, v. v. i., pod vedením doc. RNDr. Zuzany Gažovej, DrSc., v zložení: RNDr. Andrea Antošová, PhD., RNDr. Zuzana Bednáríková, PhD., RNDr. Diana Fedunová, PhD., RNDr. Miroslav Gančár, PhD., RNDr. Jozef Marek, PhD., v oblasti štúdia: Amyloidná agregácia proteínov a identifikácia látok pre terapiu amyloidných ochorení

Kačmarčík Jozef

Cena SAV za špičkovú publikáciu

Oceňovateľ: P SAV

Opis: Publikácia vo vedeckom časopise registrovanom v databáze Nature Index

Mackovjak Šimon

Cena SAV za výsledky vedecko-výskumnej práce pre mladých pracovníkov

Oceňovateľ: P SAV

Opis: Cena SAV za výsledky vedecko-výskumnej práce pre mladých pracovníkov RNDr. Šimonovi Mackovjakovi, PhD. z Oddelenia kozmickej fyziky ÚEF SAV, v. v. i. za výsledky dosiahnuté v oblasti štúdia: Výskum kozmického počasia pomocou metód strojového učenia

Šofranko Ondrej

Cena SAV za špičkovú publikáciu

Oceňovateľ: P SAV

Opis: Publikácia vo vedeckom časopise registrovanom v databáze Nature Index

Tomašovičová Natália a kol.

Cena SAV za výsledky medzinárodnej vedecko-technickej spolupráce

Oceňovateľ: P SAV

Opis: Cena SAV za výsledky medzinárodnej vedecko-technickej spolupráce kolektívu výskumnej skupiny Feromagnetické kvapaliny z Oddelenia fyziky magnetických javov ÚEF SAV, v. v. i. v zložení RNDr. Marianna Baťková, PhD., RNDr. Veronika Lacková, PhD., RNDr. Jozef Kováč, CSc., doc. RNDr. Peter Kopčanský, CSc., Ing. Matúš Molčan, PhD., Ing. Katarína Paulovičová, PhD., RNDr. Michal Rajňák, PhD., RNDr. Milan Timko, CSc., RNDr. Natália Tomašovičová, CSc., RNDr. Katarína Zakuťanská, PhD., v oblasti štúdia: Magnetické nanočastice menia vlastnosti tradičných materiálov a otvárajú nové aplikačné možnosti

16.1.2. Iné domáce ocenenia

Diko Pavel

Významný výsledok VEGA za rok 2021

Oceňovateľ: Vedecká grantová agentúra MŠVVaŠ SR a SAV

Opis: Projekt VEGA 2/0044/19 "Legované REBCO masívne supravodiče"

Farkašovský Pavol

Významný výsledok VEGA za rok 2021

Oceňovateľ: Vedecká grantová agentúra MŠVVaŠ SR a SAV

Opis: Projekt VEGA 2/0112/18 "Systematické štúdium vplyvu lokálnych a nelokálnych interakcií na koexistenciu kvantových fáz s rôznymi parametrami usporiadania"

Kováč Jozef

Významný výsledok VEGA za rok 2021

Oceňovateľ: Vedecká grantová agentúra MŠVVaŠ SR a SAV

Opis: Projekt VEGA 1/0053/19 "Vplyv chemického zloženia na význačné fyzikálne vlastnosti moderných funkčných materiálov", vedúci projektu: prof. RNDr. Rastislav Varga, DrSc. (Technologický a inovačný park UPJŠ)

Kuzmiak Marek

Cena dekana FEI TUKE

Oceňovateľ: Fakulta elektrotechiky a informatiky TU Košice

Mackovjak Šimon

Cena SFS pre mladých fyzikov

Oceňovateľ: Slovenská fyzikálna spoločnosť

Opis: 2. miesto v Súťaži vedeckých prác mladých fyzikov do 35 rokov

Mihalik Marián

Významný výsledok VEGA za rok 2021

Oceňovateľ: Vedecká grantová agentúra MŠVVaŠ SR a SAV

Opis: Projekt VEGA 2/0137/19 "Ortorombické multiferoické materiály so silnou magneto – elektrickou väzbou: vplyv substitúcie v oktaedrických polohách na magnetizmus a multiferoicitu"

Nemčík Ján

Významný výsledok VEGA za rok 2021

Oceňovateľ: Vedecká grantová agentúra MŠVVaŠ SR a SAV

Opis: Projekt VEGA 2/0007/18 "Skúmanie vlastností jadrovej matérie v produkcii ťažkých kvarkov na jadrových terčikoch"

Pristáš Gabriel

Cena SFS za vedu

Oceňovateľ: Slovenská fyzikálna spoločnosť

Sedlák Marián

APVV projekt s vynikajúcou úrovňou

Oceňovateľ: APVV

Opis: Projekt APVV-16-0550 "Nanosegregácia v mäkkých látkach polymérneho a nepolymérneho charakteru"

Škorvánek Ivan

APVV projekt s vynikajúcou úrovňou

Oceňovateľ: APVV

Opis: Projekt APVV-15-0621 "Atomárna štruktúra a unikátne vlastnosti intermetalik, amorfných, nanokryštalických a komplexných kovových zliatin"

Škorvánek Ivan

Čestný člen SFS

Oceňovateľ: Slovenská Fyzikálna Spoločnosť

Šoltýs Petra

Cena SFS pre mladých fyzikov

Oceňovateľ: Slovenská fyzikálna spoločnosť

Opis: 3. miesto v Súťaži vedeckých prác mladých fyzikov do 35 rokov

16.2. Medzinárodné ocenenia

Baláž Ján

Akademik IAA, zvolený za riadneho člen IAA

Oceňovateľ: International Academy of Astronautics, Paris, FR

Opis: International Academy of Astronautics zvolila J. Baláža za riadneho člena (full member, academician) v júli 2022.

Hnatič Michal

Cena JINR Dubna

Oceňovateľ: Joint Institute for Nuclear Research Dubna

Opis: 1. cena JINR Dubna za dlhoročný teoretický výskum stochastických systémov metódami kvantovej teórie poľa

17. Poskytovanie informácií v súlade so zákonom č. 211/2000 Z. z. o slobodnom prístupe k informáciám v znení neskorších predpisov (Zákon o slobode informácií)

18. Problémy a podnety pre činnosť SAV

Správu o činnosti organizácie SAV spracoval(i):

doc. RNDr. Slavomír Gabáni, PhD.

Schválila vedecká rada organizácie SAV dňa 26.1.2023

Riaditeľ organizácie SAV

Predseda vedeckej rady

.....
doc. RNDr. Zuzana Gažová, DrSc.

.....
RNDr. Jozef Kačmarčík, PhD.

Prílohy**Príloha A****Zoznam zamestnancov a doktorandov organizácie k 31.12.2022****Zoznam zamestnancov podľa štruktúry**

	Meno s titulmi	Úväzok (v %)	Ročný prepočítaný úväzok
Vedúci vedeckí pracovníci DrSc.			
1.	Ing. Pavel Diko, DrSc., akademik US Slovenska	100	1.00
2.	RNDr. Pavol Farkašovský, DrSc.	100	1.00
3.	doc. RNDr. Karol Flachbart, DrSc., akademik US Slovenska	100	1.00
4.	doc. RNDr. Zuzana Gažová, DrSc.	100	1.00
5.	prof. Dr.h.c. RNDr. Michal Hnatič, DrSc.	50	0.00
6.	MUDr. Andrey Musatov, DrSc.	100	1.00
7.	prof. RNDr. Marián Reiffers, DrSc.	10	0.10
8.	prof., RNDr. Peter Samuely, DrSc., akademik US Slovenska	50	0.50
9.	RNDr. Marián Sedlák, DrSc.	100	1.00
10.	RNDr. Peter Skyba, DrSc.	100	1.00
Vedúci vedeckí pracovníci CSc., PhD.			
1.	RNDr. Kornel Csach, CSc.	40	0.65
2.	doc. RNDr. Peter Kopčanský, CSc.	100	1.00
3.	RNDr. Jozef Kováč, CSc.	100	1.00
4.	RNDr. Marián Mihalik, CSc.	100	1.00
5.	RNDr. Ivan Škorvánek, CSc.	100	1.00
6.	RNDr. Milan Timko, CSc.	100	1.00
7.	doc. RNDr. Jozef Urbán, CSc.	15	0.06
Samostatní vedeckí pracovníci			
1.	doc. Mgr. Iryna Antal, PhD.	100	1.00
2.	RNDr. Andrea Antošová, PhD.	100	1.00
3.	Ing. Ján Baláž, PhD.	100	1.00
4.	RNDr. Marianna Baťková, PhD.	100	1.00
5.	RNDr. Jozef Bednarčík, PhD.	25	0.25
6.	RNDr. Zuzana Bednáriková, PhD.	100	1.00
7.	RNDr. Pavol Bobík, PhD.	100	1.00
8.	RNDr. Marcel Človečko, PhD.	100	1.00

9.	RNDr. Diana Fedunová, PhD.	100	1.00
10.	doc. RNDr. Slavomír Gabáni, PhD.	100	1.00
11.	RNDr. Martin Gmitra, PhD.	100	0.77
12.	RNDr. Marián Jurčišin, PhD.	100	1.00
13.	RNDr. Eva Jurčišinová, PhD.	100	1.00
14.	RNDr. Alena Juríková, CSc.	100	1.00
15.	RNDr. Jozef Kačmarčík, PhD.	100	1.00
16.	RNDr. Peter Kaliňák, PhD.	100	1.00
17.	RNDr. Iryna Khmara, PhD.	100	0.54
18.	Ing. Martina Koneracká, CSc.	100	1.00
19.	RNDr. Ivan Králik, CSc.	100	1.00
20.	RNDr. Martina Kubovčíková, PhD.	100	1.00
21.	RNDr. Martin Kupka, CSc.	25	0.25
22.	RNDr. Veronika Lacková, PhD.	100	0.33
23.	RNDr. Šimon Mackovjak, PhD.	100	1.00
24.	RNDr. Jozef Marcin, PhD.	100	1.00
25.	RNDr. Jozef Marek, PhD.	100	1.00
26.	RNDr. Matúš Mihálik, PhD.	100	1.00
27.	Ing. Matúš Molčan, PhD.	100	1.00
28.	Mgr. Ján Mušínský, PhD.	100	1.00
29.	doc. RNDr. Ján Nemčík, CSc.	50	0.50
30.	RNDr. Matúš Orendáč, PhD.	100	1.00
31.	RNDr. Blahoslav Pastirčák, CSc.	55	0.30
32.	RNDr. Richard Pinčák, PhD.	100	1.00
33.	RNDr. Gabriel Pristáš, PhD.	100	1.00
34.	RNDr. Michal Pudlák, CSc.	100	1.00
35.	RNDr. Michal Rajňák, PhD.	100	1.00
36.	Mgr. Dmytro Rak, PhD.	5	0.21
37.	RNDr. Pavol Stríženec, CSc.	100	1.00
38.	Mgr. Pavol Szabó, CSc.	100	1.00
39.	RNDr., Ing. Katarína Šipošová, PhD.	100	1.00
40.	RNDr. Natália Tomašovičová, CSc.	100	1.00
41.	doc. Ing. Zoltán Tomori, CSc.	100	1.00
42.	RNDr. Zuzana Vargaestoková, PhD.	100	0.75
43.	RNDr. Hana Vargová, PhD.	100	1.00

44.	doc. Svitlana Vitushkina, PhD.	100	0.33
45.	Ing. Vlasta Závišová, PhD.	100	1.00
46.	RNDr. Mária Zentková, CSc.	100	1.00
47.	Ing. Katarína Zmorayová, PhD.	100	1.00
Vedeckí pracovníci			
1.	Mgr. Dominik Babál, PhD.	100	0.25
2.	RNDr. Miroslav Gančár, PhD.	100	0.92
3.	RNDr. Miloš Jakubčín, PhD.	100	1.00
4.	Ing. Marián Krivda, PhD.	5	0.05
5.	RNDr. Jana Kubacková, PhD.	100	1.00
6.	Ing. Ján Kubančák, PhD.	50	0.50
7.	Mgr. Veronika Kuchárová, PhD.	100	1.00
8.	Ing. Branislav Kunca, PhD.	100	1.00
9.	RNDr. Mária Lalkovičová, PhD.	5	0.00
10.	doc. Ing. Ondrej Milkovič, PhD.	20	0.20
11.	RNDr. Oleksandr Onufriienko, PhD.	100	1.00
12.	Ing. Katarína Paulovičová, PhD.	100	1.00
13.	Ing. Monika Radušovská, PhD.	100	0.92
14.	RNDr. Ľubomíra Regeciová, PhD.	100	1.00
15.	RNDr. Richard Remecký, PhD.	100	0.50
16.	Mgr. Juraj Smieško, PhD.	100	0.00
17.	Ing. Petra Šoltýs, PhD.	10	0.10
18.	Zoltan Tajkov, PhD.	100	0.33
19.	RNDr. Eva Valušová, PhD.	100	1.00
20.	Ing. Liudmila Vojtkova, PhD.	100	0.00
21.	Mgr. Daniela Volochová, PhD.	100	1.00
22.	RNDr. Katarína Zakuťanská, PhD.	100	0.08
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Ing. Július Bačkai	20	0.12
2.	Ing. Richard Bílek	100	1.00
3.	Ing. Marcela Brasová	100	1.00
4.	Ing. Kamil Goliáš	20	0.12
5.	Ing. Viktor Kočan	100	1.00
6.	Mgr. Filip Košuth	20	0.12
7.	Mgr. Martin Kovalik	35	0.11

8.	Ing. Peter Kuľka	5	0.00
9.	Ing. Ingrid Kuľková	100	1.00
10.	Ing. Bc. Marek Kuzmiak	20	0.12
11.	Mgr. Ronald Langer	100	1.00
12.	Oleksandr Podopryhora	20	0.12
13.	Mgr. Richard Smolko	50	0.17
14.	RNDr. Filoména Sopková, PhD.	100	1.00
15.	Ing. Miloslav Straka	100	1.00
16.	Ing. Igor Strhársky	100	1.00
17.	RNDr. Vladimír Vaník	5	0.05
18.	Bc. Matej Varga	50	0.50
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Ing. Michaela Doliničová	50	0.50
2.	Ing. Dušan Gábor	100	1.00
3.	Ing. Jakub Gažo	100	0.31
4.	Ing. Valéria Kočanová	100	1.00
5.	Ing. Miroslava Kozáková	100	0.83
6.	Ing. Marcela Medeová	100	1.00
7.	Ing. Judita Pribišová	100	1.00
8.	Ing. Martina Šefčíková, PhD.	100	0.54
9.	Mgr. Jana Štetiarová	100	1.00
Odborní pracovníci ÚSV			
1.	Gabriela Hnatičová	100	0.00
2.	Anna Ivanišová	100	1.00
3.	Ivan Jurčo	54	0.54
4.	Dagmar Sedláková	100	1.00
5.	Samuel Štefánik	100	0.79
6.	Viera Štrbinová	100	1.00
7.	Dana Švarcbergerová	100	1.00
Ostatní pracovníci			
1.	Monika Baloghová	100	1.00
2.	Albín Béreš	100	0.67
3.	Martina Ivančáková	100	1.00
4.	Ing. Jozef Jacko	80	0.80
5.	Peter Jurko	100	1.00

6.	Juraj Koribanič	100	1.00
7.	Pavol Koval	100	1.00
8.	Marcela Kurimská	100	1.00
9.	Ján Ondira	100	0.92
10.	Marián Piroš	5	0.05
11.	Imrich Piroško	100	1.00
12.	Mária Pirošová	40	0.40
13.	Daniela Solárová	100	1.00
14.	Ján Timko	100	1.00
15.	Gabriel Tóth	100	1.00

Zoznam zamestnancov, ktorí odišli v priebehu roka

	Meno s titulmi	Dátum odchodu	Ročný prepočítaný úväzok
Vedúci vedeckí pracovníci CSc., PhD.			
1.	doc. RNDr. Dušan Bruncko, CSc.	29.3.2022	0.25
Samostatní vedeckí pracovníci			
1.	Mgr. Vitaliy Antal, PhD.	12.7.2022	0.54
Vedeckí pracovníci			
1.	Mgr. Ján Buša, PhD.	31.10.2022	0.00
2.	RNDr. Lukáš Mižišin, PhD.	16.6.2022	0.00
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Ing. Emil Gažo	15.5.2022	0.38
2.	Ing. Igor Hrmo	5.5.2022	0.33
3.	Mgr. Marko Morávek	30.4.2022	0.29
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Ing. Mária Sabadková	30.6.2022	0.50
Ostatní pracovníci			
1.	Mária Belková	7.1.2022	0.00
2.	Alžbeta Horváthová	30.4.2022	0.17
3.	PhDr. Jaroslav Nináč	30.4.2022	0.33

Zoznam doktorandov

	Meno s titulmi	Škola/fakulta	Študijný odbor
Interní doktorandi hradení z prostriedkov SAV			
1.	Ing. Július Bačkai	Fakulta elektrotechniky a informatiky TUKE	2675 elektrotechnika

2.	RNDr. Barbora Borovská	Prírodovedecká fakulta UPJŠ	1160 fyzika
3.	Mgr. Martina Dzurová	Prírodovedecká fakulta UPJŠ	1160 fyzika
4.	Mgr. Viktória Fedorová	Prírodovedecká fakulta UPJŠ	1160 fyzika
5.	Mgr. Ivana Garčárová	Prírodovedecká fakulta UPJŠ	1160 fyzika
6.	Ing. Kamil Goliáš	Prírodovedecká fakulta UPJŠ	1160 fyzika
7.	Mgr. Maksym Karpets	Fakulta elektrotechniky a informatiky TUKE	2675 elektrotechnika
8.	MSc. Ravnet Kaur	Prírodovedecká fakulta UPJŠ	1160 fyzika
9.	Ing. Michal Kopčík	Fakulta elektrotechniky a informatiky TUKE	2675 elektrotechnika
10.	Mgr. Filip Košuth	Prírodovedecká fakulta UPJŠ	1160 fyzika
11.	Mgr. Martin Kovalik	Fakulta materiálov, metalurgie a recyklácie TUKE	2381 strojárstvo
12.	Ing. Marek Kuzmiak	Fakulta elektrotechniky a informatiky TUKE	2675 elektrotechnika
13.	Mgr. Dmytro Miakota	Fakulta elektrotechniky a informatiky TUKE	2675 elektrotechnika
14.	Limpat Nulandaya	Prírodovedecká fakulta UPJŠ	1160 fyzika
15.	Mgr. Oľga Parmar	Prírodovedecká fakulta UPJŠ	1160 fyzika
16.	Mgr. Oleksandr Podopryhora	Prírodovedecká fakulta UPJŠ	1160 fyzika
17.	Mgr. Radka Sobotová	Fakulta materiálov, metalurgie a recyklácie TUKE	2381 strojárstvo
18.	RNDr. Vladimír Vaník	Prírodovedecká fakulta UPJŠ	1160 fyzika
19.	Mgr. Kristina Zolocheska	Fakulta elektrotechniky a informatiky TUKE	2675 elektrotechnika
Interní doktorandi hradení z iných zdrojov			
<i>organizácia nemá interných doktorandov hradených z iných zdrojov</i>			
Externí doktorandi			
<i>organizácia nemá externých doktorandov</i>			

Zoznam zamestnancov prijatých do jedného roka od získania PhD.

	Meno s titulmi	Dátum obhajoby	Dátum prijatia	Úväzok (v %)
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Zoznam emeritných vedeckých zamestnancov

	Meno s titulmi
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Príloha B

Projekty riešené v organizácii

Medzinárodné projekty

Programy: Medziakademická dohoda (MAD)

1.) Ladenie frustrovaných kovových kvantových magnetov (*Tuning of frustrated metallic quantum magnets*)

Zodpovedný riešiteľ: Slavomír Gabáni
Trvanie projektu: 1.1.2021 / 31.12.2022
Evidenčné číslo projektu: DAAD-57561069
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 1 - Nemecko: 1
Čerpané financie: -

Dosiahnuté výsledky:

V rámci štúdia ladenia vlastností kvantových magnetov sú po recenzii publikácie týkajúce sa skúmania magnetickej štruktúry skenovacím tunelovým mikroskopom v systéme TmB4 [1] a vplyvu rotácie tohto systému v magnetickom poli na jeho magnetorezistivitu [2].

Všetci slovenskí riešitelia projektu absolvovali služobnú cestu do HZB Berlín v období 23. 5. - 3. 6. 2022. Počas pobytu boli študované transportné a magnetické vlastnosti frustrovaných kvantových magnetov v extrémnych podmienkach do teplôt 300 mK a v poliach do 14 T na zariadeniach He4-PPMS-14T a He3-SQUID VSM-5T (Quantum Design).

Zároveň náš ústav navštívil Dr. K. Siemensmeyer v období 10. - 15. 7. 2022 za účelom experimentálneho a teoretického štúdia magnetických dimérov v tetraboridoch vzácnych zemín.

[1] M.V. Ale Crivillero, J.C. Souza, V. Hasse, M. Schmidt, N. Shitsevalova, S. Gabáni, K. Siemensmeyer, K. Flachbart and S. Wirth, "Detection of surface states in quantum materials ZrTe2 and TmB4 by Scanning Tunneling Microscopy", Condensed Matter 8, 9-20 (2023)

[2] J. Bačkai, S. Gabáni, G. Pristáš, M. Orendáč, E. Gažo, A. Azarevich, N. Sluchanko, K. Siemensmeyer, N. Shitsevalova, and K. Flachbart, "Angle-resolved magnetoresistance in strongly anisotropic quantum magnet TmB4", Physical Review B (2023) - po recenzii

2.) Štúdium nových feromagnetických nanokompozitov (*Investig. of new FM nanocomposites*)

Zodpovedný riešiteľ: Jozef Kováč
Trvanie projektu: 1.1.2019 / 31.12.2022
Evidenčné číslo projektu:
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

3.) Ordering and self-organization of magnetic nanoparticles in liquid crystals

Zodpovedný riešiteľ: Veronika Lacková
Trvanie projektu: 1.1.2019 / 31.12.2022
Evidenčné číslo projektu: MAD-SK-HU
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

Na partnerskom pracovisku Wigner Research Centre for Physics, Budapešť, Maďarsko bola vedená diskusia ohľadom pripravených feroematických vzoriek- nematické kvapalné kryštály dopované magnetickými nanočasticami, spojená s vyhodnotením nameraných dát. Konkrétne bola študovaná orientácia molekúl kvapalného kryštálu v okolí magnetickej nanočastice. V rámci plánovaného pobytu zahraničných hostí na našom pracovisku boli premerané vzorky nematických kvapalných kryštálov dopovaných chirálnym dopantom (tzv. cholesterik) pomocou polarizačného optického mikroskopu s cieľom nájsť optimálnu koncentráciu chirálneho dopantu pre prípravu stabilných cholesterických kvapalných kryštálov, ktoré by vykazovali vysokú odozvu na nízke rozsahy el. a mag. polí. Boli tiež pripravené fotosenzitívne polyméry na báze nematických kvapalných kryštálov, na ktorých bola študovaná fázová transformácia pomocou atómovej silovej mikroskopie. Získané výsledky boli následne prediskutované, kde v rámci diskusie boli zhodnotené dosiahnuté výsledky pri riešení projektov a predniesli sa plány na ďalšie obdobie.

4.) Atmosférické elektrické pole a dynamika nabitých častíc a sekundárne kozmické žiarenie vo vysokých horách

Zodpovedný riešiteľ: Šimon Mackovjak
Trvanie projektu: 1.1.2022 / 31.12.2023
Evidenčné číslo projektu: SAV-21-01
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

5.) Point-contact and tunneling spectroscopy of the topological insulator SnTe and Ge semiconductor)

Zodpovedný riešiteľ: Pavol Szabó
Trvanie projektu: 1.4.2020 / 31.12.2022
Evidenčné číslo projektu: áno
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spolurieš. inštitúcií: 1 - Ukrajina: 1
Čerpané financie: -

Dosiahnuté výsledky:

V rámci riešenia projektu bol publikovaný článok:

N. V. Gamayunova, M. Kuzmiak, P. Szabó, P. Samuely, and Yu. G. Naidyuk, Superconductivity in hole-doped germanium point contacts, *Low Temperature Physics* 48, 136 (2022); <https://doi.org/10.1063/10.0009293>

6.) STM štúdium grafénom pokrytých nanoštruktúr (*Investigation of graphene covered superconducting nanostructures by scanning tunneling microscopy*)

Zodpovedný riešiteľ: Pavol Szabó
Trvanie projektu: 1.1.2019 / 31.12.2022
Evidenčné číslo projektu:
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 5 - Maďarsko: 5
Čerpané financie: -

Dosiahnuté výsledky:

V rámci riešenia projektu boli vyrobené rôzne sendvičové štruktúry grafén/supravodivá tenká vrstva MoN. Na ÚEF SAV pomocou nízkoteplotných STM meraní na grafénovej vrstve sme pozorovali indukovanú supravodivosť.

Na štúdium indukovanej supravodivosti vo voľne visiacom (nepodopretom) graféne sme na tenkých filmoch MoN pripravili nanoštruktúry pomocou FIB na ÚMV SAV, ktoré boli následne pokryté CVD grafénom na MFA v Budapešti. Optické merania týchto nanoštruktúr realizované v Budapešti poukázali na nestabilitu týchto systémov. Grafénová vrstva vykazovala siné vráskovanie v oblasti nanoštruktúr, čo znemožnilo STM štúdium týchto nanoštruktúr.

V rámci riešenia projektu sme začali v spolupráci s kolegami z MFA v Budapešti budovať v Košiciach nové experimentálne zariadenie na prácu s monovrstvami a 2D štruktúrami.

7.) Self assembly and functionalization of nanofibrillar DNA-spider silk hybrid materials

Zodpovedný riešiteľ: Katarína Šipošová
Trvanie projektu: 1.1.2022 / 31.12.2023
Evidenčné číslo projektu: DAAD-
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

Cieľom riešeného projektu je príprava vlákien rekombinantného pavúčieho proteínu eADF4(C16) a ich modifikácia s DNA, umožňujúca „programovateľné“ usporiadanie vlákien vďaka komplementarite DNA.

V rámci prvého roka sme sa venovali detailnému štúdiu experimentálnych podmienok, ktoré vedú k tvorbe amyloidných štruktúr (fibríl) rekombinantného pavúčieho proteínu. Študovali sme vplyv pH, ale aj teploty a prítomnosti rôznych solí na kinetiku samozbáľovania proteínu eADF4(C16) a výslednú morfológiu vytvorených štruktúr. Získané výsledky nám umožnili nastaviť experimentálne

podmienky vedúce ku kontrolovateľnej a reprodukovateľnej tvorbe amyloidných fibrilárnych vlákien rekombinantného pavúčieho proteínu. Na základe týchto výsledkov sme uskutočnili prvotné experimenty samo-zbaľovania rekombinantného pavúčieho proteínu s naviazanými molekulami DNA (biokonjugáty). Tieto DNA-proteínové hybridy využívajúce nukleové kyseliny, sa zbaľujú s vysokou presnosťou a predvídateľnosťou, ako napr. pri DNA origami. Na druhej strane, rekombinantné pavúčie proteíny vytvárajú nanofibrily s vysokou chemickou stabilitou, ako aj mechanickou pevnosťou. Preto je v našom záujme využitie týchto poznatkov v ďalšom roku riešenia projektu pri konštruovaní hybridných DNA-proteín konjugátov.

8.) Príprava a štúdium štruktúrnych a magnetických vlastností CoFe₂O₄/Fe₃O₄ nanočastíc typu "core/shell" pre magnetickú hypertermiu (*Preparation and study of structural and magnetic properties of core/shell CoFe₂O₄/Fe₃O₄ nanoparticles for advanced magnetic hyperthermia*)

Zodpovedný riešiteľ: Ivan Škorvánek
Trvanie projektu: 1.1.2020 / 31.12.2022
Evidenčné číslo projektu: QTSK01.01/20-21
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

Výsledky experimentov na spoluriešiteľských pracoviskách ukázali, že nanočastice na báze kobaltu s core/shell morfológiou vykazujú po vhodnom tepelnom spracovaní výrazný „exchange bias efekt“, ktorý sa prejavuje výrazným posunom stredu hysterézných slučiek na x-ovej osi oproti nulovej hodnote magnetického poľa ak boli vzorky chladené na teplotu 5 K v externom magnetickom poli. Experimentálne merania boli podporené teoretickými Monte-Carlo simuláciami.

Hieu N.T., Ky V.H., Bach T.NH., Tung, D.T., Phong L.T., Manh D.H., Škorvánek I., Effect of annealing on the exchange interaction between magnetic phases and the exchange bias in Co/CoO nanocomposites, The 6th International Symposium on Frontiers in Materials Science, November 21-23, 2022, Phu Quoc, Vietnam, Abstrac Booklet, p. 168

9.) Elastic micro-tools for optical manipulation of biological objects

Zodpovedný riešiteľ: Zoltán Tomori
Trvanie projektu: 1.1.2019 / 31.12.2022
Evidenčné číslo projektu: áno
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

[1] Kubackova, J., Slabý, C., Horvath, D., Hovan, A., Ivány, G.T., Vizsnyiczai, G., Kelemen, L., Strejčková, A., Tomori, Z., and Bánó, G.: 'Viscosity measurements using flexible microstructures'. Proc. Regional Biophysics Conference, Pecs, Hungary, August 22-26 2022

[2] Slabý, C., Kubackova, J., Vizsnyiczai, G., Horvath, D., Kelemen, L., Hovan, A., Žoldák, G., Ivány, G.T., Tomori, Z., and Bánó, G.: 'The viscoelastic behaviour of photopolymer nanowires – experiments and modeling'. Proc. Regional Biophysics Conference, Pecs, Hungary, August 22-26 2022

10.) Multifunctional magnetic materials - research into structure and physical properties
(*Multifunctional magnetic materials - research into structure and physical properties*)

Zodpovedný riešiteľ: Mária Zentková
Trvanie projektu: 19.2.2019 / 31.12.2022
Evidenčné číslo projektu:
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 1 - Poľsko: 1
Čerpané financie: -

Dosiahnuté výsledky:

Programy: COST

11.) Non-globular proteins in the era of Machine Learning (*Non-globular proteins in the era of Machine Learning*)

Zodpovedný riešiteľ: Zuzana Bednáríková
Trvanie projektu: 25.10.2022 / 26.10.2026
Evidenčné číslo projektu: COST Action CA21160
Organizácia je koordinátorom projektu: nie
Koordinátor: Universit? degli Studi di Padova, Padova, Taliansko
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

12.) Fundamentals and application of purple bacteria biotechnology for resource recovery from waste (*Fundamentals and application of purple bacteria biotechnology for resource recovery from waste*)

Zodpovedný riešiteľ: Michal Pudlák
Trvanie projektu: 1.1.2022 / 31.12.2023
Evidenčné číslo projektu: COST OC-2021-1-25444
Organizácia je koordinátorom projektu: nie
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

13.) NANOSCALE COHERENT HYBRID DEVICES FOR SUPERCONDUCTING QUANTUM TECHNOLOGIES

Zodpovedný riešiteľ: Peter Samuely
Trvanie projektu: 18.10.2017 / 17.4.2022
Evidenčné číslo projektu: COST Action CA16218
Organizácia je koordinátorom projektu: nie
Koordinátor: Universidad Autonoma de Madrid
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

14.) Supravodivé nanozariadenia a kvantové materiály pre koherentnú manipuláciu (SUPERCONDUCTING NANODEVICES AND QUANTUM MATERIALS FOR COHERENT MANIPULATION)

Zodpovedný riešiteľ: Peter Samuely
Trvanie projektu: 6.10.2022 / 5.10.2026
Evidenčné číslo projektu: COST CA211444
Organizácia je koordinátorom projektu: nie
Koordinátor: prof. Hermann Suderow
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

Projekt začal úvodným kickoff mítingom, ktorý sa uskutočnil videokonferenčne 6. októbra 2022. P. Samuely a D. Kochan (FÚ SAV, v.v.i.) sa stali členmi Riadiaceho výboru projektu. Ďalší pracovníci sa stali členmi Pracovných skupín. Schválili sme rozpočet aj plán činnosti na rok 2023, vrátane dvoch konferencií.

Programy: NATO

15.) NOVÉ KOMPOZITY NANOČASTÍC OXIDU CÉRIA A UHLÍKOVÝCH ENTEROSORBENTOV PRE LIEČBU CHORÔB PO AKÚTNOM OŽIARENÍ (NOVEL COMPOSITES BASED ON CERIUM OXIDE NANOPARTICLES AND CARBON ENTEROSORBENTS FOR ACUTE RADIATION SICKNESS THERAPY)

Zodpovedný riešiteľ: Andrey Musatov
Trvanie projektu: 15.7.2020 / 14.7.2023
Evidenčné číslo projektu: NATO G-5683
Organizácia je koordinátorom projektu: nie
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: NATO: 13242 €
Podpora medzinárodnej spolupráce z národných zdrojov: 2500 €

Dosiahnuté výsledky:

Projekt sa venuje vývoju a príprave nových nanokompozitov určených pre liečbu chorôb po akútnom ožiarení. Pozornosť sa zameriava na kombinované použitie neobalených nanočastíc oxidu céria a najnovšieho vysokoaktívneho uhlíkového enterosorbentu určeného na perorálne užitie.

V rámci riešenia úloh projektu sme sa venovali detailnému štúdiu vplyvu podmienok syntézy nanočastíc CeO₂ NPs na ich fyzikálno-chemické vlastnosti a bioaktivitu. Kontrolovanou syntézou v závislosti od obsahu izopropanolu v reakčnom médiu bola pripravená séria piatich CeO₂ nanočastíc, u ktorých bola pozorovaná korelácia medzi veľkosťou a percentuálnym podielom Ce³⁺ iónov na povrchu [1]. Detailným štúdiom sme zistili, že veľkosť častíc a ich redox vlastnosti významne vplyvajú aj na ich anti-amyloidnú a anti-oxidačnú aktivitu. Význam a dôležitosť výberu experimentálnych podmienok určujúcich výsledne fyzikálno-chemické vlastnosti sme potvrdili aj pri syntéze CeO₂ nanočastíc vo vodno-alkoholovom prostredí s kontrolovaným pH (=9) [2]. CeO₂ NP teda vykazujú veľký potenciál pre štúdium súhry medzi oxidačným stresom a chorobami súvisiacimi s prítomnosťou amyloidných štruktúr a dokázať alebo vyvrátiť hypotézu, že oxidačný stres môže hrať úlohu pri modulácii proteínov a následnej amyloidogéze [1,2]. Anti-amyloidný potenciál a perspektívu terapeutického využitia vykazujú aj fullerény. Kombináciou experimentálnych a in silico metód sme ukázali, že väzba molekúl fullerénu C₆₀ dokáže stabilizovať štruktúru proteínu a tým zabráni jeho transformácii a inhibuje tvorbu amyloidných štruktúr/vlákien [3]. Je tiež známe, že Je dobre známe, že formovanie amyloidných vlákien a ich výsledná morfológia výrazne závisia od vonkajších podmienok. V rámci riešenia úloh čiastkových úloh projektu sme monitorovali vplyv detergentu na báze cholesterolu (chobimalt) na amyloidogézu inzulínu. Zistili sme, že chobimalt výrazne ovplyvňuje nielen kinetiku agregácie inzulínu, ale aj výslednú morfológiu fibríl, a to v dôsledku postupného obsadzovania väzobných miest na proteíne [4].

Významným aspektom pri použití nanočasticových systémov je aj ich odozva na externé elektrické a magnetické pole. Aplikácia vonkajšieho elektrického poľa môže viesť k usporiadaniu magnetických nanočastíc dispergovaných v nepolárnom prostredí. Na druhej strane, výsledné usporiadanie častíc vplyvom elektrického poľa môže mať vplyv na ich odozvu na vložené magnetické pole. Preto sme testovali schopnosť ovládať magnetickú susceptibilitu magnetických kvapalín elektrickými silami [5-11]. Ukázali sme tiež, že aplikácia striedavého a/alebo rotujúceho magnetického poľa vedie k tvorbe tepla v procesoch hypertermie [6-8]. Ukázali sme, že individuálne nanočastice disponujú silnejšou odozvou na rotujúce magnetické pole v porovnaní s nanočasticami usporiadanými v retiazkach (magnetozómy) [6,7]. Navyše, nanočasticami je možné modifikovať rôzne systémy, vrátane nanotextílií [7].

[1] Siposova, K.; Huntosova, V.; Garcarova, I.; Shlapa, Yu.; Timashkov, I.; Belous, A.; Musatov, A. Dual-Functional Antioxidant and Anti-amyloid Cerium Oxide Nanoparticles Fabricated by Controlled Synthesis in Water-Alcohol Solutions. *Biomedicines*. 2022, 10, 942

[2] Shlapa, Yu.; Solopan, S.; Sarnatskaya, V.; Siposova, K.; Garcarova, I.; Veltruska, K.; Timashkov, I.; Lykhova, O.; Kolesnik, D.; Musatov, A.; Nikolaev, V.; Belous, A. Cerium Dioxide Nanoparticles Synthesized via Precipitation at Constant pH: Synthesis, Physical-Chemical and Antioxidant Properties. *Colloids and Surfaces B: Biointerface* 2022, 112960

[3] Lee, O.-S.; Petrenko, V.I.; Siposova, K.; Musatov, A.; Park, H.; Lanceros-Méndez, S. How fullerenes inhibit the amyloid fibril formation of hen lysozyme. *J. Ind. Eng. Chem.* 2022, 106, 168–176

[4] Siposova, K.; Petrenko, V.I.; Garcarova, I.; Sedlakova, D.; Almasy, L.; Kyzyma, O.A.; Kriechbaum, M.; Musatov, A. The intriguing dose-dependent effect of selected amphiphilic compounds on insulin amyloid aggregation: Focus on a cholesterol-based detergent, Chobimalt. *Front. Mol. Biosci.* 2022, 9, 955282

- [5] Karpets, M., Rajnak, M., Petrenko, V., Gapon, I., Avdeev, M., Bulavin, L., Timko, M., Kopcanský, P. Electric field-induced assembly of magnetic nanoparticles from dielectric ferrofluids on planar interface. *J. Mol. Liq.* 2022, 362, art. no. 119773
- [6] Molcan, M., Skumiel, A., Timko, M., Safarik, I., Zolocheska, K., Kopcansky, P. Tuning of Magnetic Hyperthermia Response in the Systems Containing Magnetosomes. *Molecules*, 2022, 27 (17), art. no. 5605
- [7] Molcan, M., Safarik, I., Prochazkova, J., Kopcansky, P., Timko, M., Skumiel, A. The impact of alternating and rotating regimes on the heating characteristics of magnetic bacterial cellulose structure. *J. Magn. Magn. Mater.*, 2022, 563, art. no. 170015
- [8] Skumiel, A., Kopcansky, P., Timko, M., Molcan, M., Paulovicova, K., Wojciechowski, R. The influence of a rotating magnetic field on the thermal effect in magnetic fluid. *Int. J. Therm. Sci.* 2022, 171, art. no. 107258
- [9] Rajnak, M., Kurimsky, J., Paulovicova, K., Franko, M., Dolnik, B., Cimbala, R., Timko, M., Kopcansky, P., Girman, V., Lisnichuk, M. Dielectric and thermal performance of a C60-based nanofluid and a C60-loaded ferrofluid. *Phys. Fluids*, 2022, 34, 107106
- [10] Rajňák, M., Franko, M., Paulovičová, K., Karpets, M., Parekh, K., Upadhyay, R., Kurimský, J., Dolník, B., Cimbala, R., Havran, P., Timko, M., Kopčanský, P. Effect of ferrofluid magnetization on transformer temperature rise. *J. Phys. D.*, 2022, 55 (34), art. no. 345002
- [11] Nebola, I.I., Katanytsia, A.F., Shkyrta, I.M., Pal, Y.O., Studenyak, I.P., Timko, M., Kopčanský, P. Comparison of features arising in phonon spectra of crystals belonging to the argyrodite family for various combinations of orbits filled with Ag (Cu) atoms. *Semicond. Phys. Quantum Electron. Optoelectron.*, 2022, 25 (1), 043-048

Programy: CERN/MŠ

16.) Experiment ALICE na LHC v CERN: Štúdium silno interagujúcej hmoty v extrémnych podmienkach (*The ALICE experiment at the CERN LHC: Study of the strongly interacting matter under extreme conditions*)

Zodpovedný riešiteľ: Ivan Králik
Trvanie projektu: 1.1.2022 / 31.12.2026
Evidenčné číslo projektu: MŠVVaŠ SR 0409/2022
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: MŠ VVaŠ: 80000 €

Dosiahnuté výsledky:

Acharya S, Adamova D, Adler A, Adolfsson J, Rinella GA, KALIŇÁK Peter, KRÁLIK Ivan, KRIVDA Marián, MUŠINSKÝ Ján, ALICE Collaboration:

Počet autorov: 1022

Investigating the role of strangeness in baryon-antibaryon annihilation at the LHC, *PHYSICS LETTERS B*, Volume: 829, Article number: 137060, DOI: 10.1016/j.physletb.2022.137060, Published: JUN 10 2022 (IF: Q1)

Acharya S, Adamova D, Adler A, Adolfsson J, Rinella GA, KALIŇÁK Peter, KRÁLIK Ivan, KRIVDA Marián, MUŠINSKÝ Ján, ALICE Collaboration:

Počet autorov: 1022

Measurement of $K^*(892)(+/-)$ production in inelastic pp collisions at the LHC, PHYSICS LETTERS B, Volume: 828, Article number: 137013, DOI: 10.1016/j.physletb.2022.137013, Published: MAY 10 2022 (IF: Q1)

Acharya S, Adamova D, Adler A, Rinella GA, Agnello M, KALIŇÁK Peter, KRÁLIK Ivan, KRIVDA Marián, MUŠINSKÝ Ján, ALICE Collaboration:

Počet autorov: 1022

Polarization of Lambda and (Λ) over-bar Hyperons along the Beam Direction in Pb-Pb Collisions at $\sqrt{s(NN)}=5.02$ TeV, PHYSICAL REVIEW LETTERS, Volume: 128, Issue: 17, Article number: 172005, DOI: 10.1103/PhysRevLett.128.172005, Published: APR 29 2022 (IF: Q1)

Acharya S, Adamova D, Adler A, Adolfsson J, Rinella GA, KALIŇÁK Peter, KRÁLIK Ivan, KRIVDA Marián, MUŠINSKÝ Ján, ALICE Collaboration:

Počet autorov: 1001

Production of Lambda and $K_S(0)$ in jets in p-Pb collisions at $\sqrt{s(NN)}=5.02$ TeV and pp collisions at $\sqrt{s}=7$ TeV, PHYSICS LETTERS B, Volume: 827, Article number: 136984, DOI: 10.1016/j.physletb.2022.136984, Published: APR 10 2022 (IF: Q1)

17.) Experiment ATLAS na LHC v CERN: hlboko-nepružné javy a nová fyzika pri TeV energiách (*ATLAS experiment at LHC at CERN: deep-inelastic phenomenons and new physics at TEV energies*)

Zodpovedný riešiteľ:	Pavol Stríženec
Trvanie projektu:	1.1.2022 / 31.12.2026
Evidenčné číslo projektu:	MŠVVaŠ SR 0408/2022
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Švajčiarsko: 1
Čerpané financie:	CERN: 72500 €

Dosiahnuté výsledky:

Projekt je súčasťou dlhodobej aktivity našej skupiny na experimente ATLAS v CERNe, takže všetky práce a výsledky nadväzujú na výsledky predchádzajúcich rokov, a predpokladajú pokračovanie prác v nasledujúcich rokoch. Z metodologického hľadiska sme sprevádzkovali softvér LAr detektora pre prácu v mnohovláknovom prostredí na začiatku Run-3. Softvér bol preverený v produkcii, s minimom viditeľných chýb, ktoré boli promptne odstránené počas nábehu detektora ATLAS. Pripravili a otestovali sme kalibračné konštanty pre rekonštrukciu LAr dát nameraných na začiatku Run-3. Zabezpečili sme bezporuchovú prevádzku grid farmy a jej dostupnosť v priebehu roka na úrovni 94,4 percenta, dosiahli sme požadovanú efektivitu prenosov dát a vysokú efektivitu využitia CPU. Okrem toho sme zavřili publikáciou práce na použití simulácií a dát z testov HEC kalorimetra na validáciu simulačného softvéru GEANT4 [1].

Vo fyzikálnej analýze bola obhájená PhD práca na tému spinových charakteristík top kvarkov v dileptónovom kanáli pri energii 13 TeV.

Naše metodologické práce na kalorimetrii umožnili excelentné výsledky vo fyzike Higgsovho bozónu, ktoré boli zhrnuté v článku v Nature [2].

Bohužiaľ politická situácia (vojna na Ukraine) priniesla neželaný efekt aj do publikačnej činnosti kolaborácie, ktorá pozastavila publikovanie článkov, kým sa nevzjasní situácia s autormi z Ruskej

federácie a Bieloruska, takže tento rok boli publikované iba články, dokončené pred vypuknutím vojny, z nich uvádzame niekoľko, kde mala naša skupina významnejší vklad [3-6].

[1] Including Calorimeter Test Beams in Geant-val—The Physics Validation Testing Suite of Geant4, Lorenzo Pezzotti, Andrey Kiryunin, Dmitri Konstantinov, Alberto Ribon, Pavol Strizenec, Instruments, Volume 6 Issue 3, Sep. 2022

[2] A detailed map of Higgs boson interactions by the ATLAS experiment ten years after the discovery; ATLAS collaboration, M. Aaboud et al., Nature 607, pages 52-59 (2022)

[3] Measurement of the energy response of the ATLAS calorimeter to charged pions from $W^{+-} \rightarrow \tau^{+-} \rightarrow \pi^{+-} \nu \nu$ events in Run-2 data; ATLAS collaboration, M. Aaboud et al., Eur. Phys. J. C 82 (2022) 223

[4] Measurement of the energy asymmetry in t antit production at 13 TeV with the ATLAS experiment and interpretation in the SMEFT framework, ATLAS collaboration, M. Aaboud et al., Eur. Phys. J. C 82 (2022) 374

[5] Measurements of azimuthal anisotropies of jet production in Pb+Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector, ATLAS collaboration, M. Aaboud et al., Phys. Rev. C 105 (2022) 064903

[6] Measurements of the Higgs boson inclusive and differential fiducial cross-sections in the diphoton decay channel with pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector, ATLAS collaboration, M. Aaboud et al., JHEP 08 (2022) 027

Programy: Multilaterálne - iné

18.) Návrh a príprava multifunkčných magnetických nanočastíc na detekciu nádorových buniek (*Design and preparation of multifunctional magnetic nanoparticles for the cancer cell detection*)

Zodpovedný riešiteľ:	Vlasta Závišová
Trvanie projektu:	1.3.2020 / 31.12.2022
Evidenčné číslo projektu:	DS-FR-19-0052
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	Podpora medzinárodnej spolupráce z národných zdrojov: 3525 €

Dosiahnuté výsledky:

Cieľom projektu bolo vyvinúť multifunkčné magnetické nanočastice s perspektívou ich použitia v diagnostike a v liečbe nádorových ochorení. Vďaka intenzívnej medzinárodnej spolupráci výskumníkov sa tieto ciele podarilo naplniť. Súhrn najhodnotnejších výsledkov bol publikovaný v práci [1], ktorá bola uverejnená v roku 2022 v časopise International Journal of Pharmaceutics. Práca sa venuje syntéze, fyzikálno-chemickej charakterizácii magnetických nanočastíc značených dvoma typmi radionuklidov, a popisuje výsledky získané z *in vitro* a *in vivo* testov. Vzorka modifikovaná poly-L-lyzínom (PLL) s najlepšou stabilitou, najvyšším SAR koeficientom, výťažkom a rádiochemickou čistotou (^{177}Lu -PLL-MNČ, 80°C) bola intravenózne podaná zdravým laboratórnym potkanom Wistar a biodistribúcia tohto komplexu bola zaznamenávaná v

jednotlivých orgánoch a tkanivách potkana v rôznych časoch. Dosiahnuté výsledky získané vďaka medzinárodnej spolupráci viacerých partnerov dávajú pozitívny signál na zlepšenie liečby rakoviny na báze hypertermie v kombinácii s rádioterapiou.

[1] Marija Mirkovic,* Zorana Milanovic, Marko Peric, Sanja Vranjes-Đuric, Milos Ognjanovic, Bratislav Antic, Milorad Kuraica, Ivan Krstic, Martina Kubovcikova, Iryna Antal, Radka Sobotova, Vlasta Zavisova, Alena Jurikova, Martin Fabian, Martina Koneracka: Design and preparation of proline, tryptophan and poly-L-lysine functionalized magnetic nanoparticles and their radiolabeling with ¹³¹I and ¹⁷⁷Lu for potential theranostic use; International Journal of Pharmaceutics 628 (2022) 12228, <https://doi.org/10.1016/j.ijpharm.2022.122288>

Programy: Bilaterálne - iné

19.) Vývoj spektrometra ASPECT-L pre lunárnu misiu LUNA-26. (*Development of spectrometer ASPECT-L for lunar mission LUNA-26.*)

Zodpovedný riešiteľ: Ján Baláž
Trvanie projektu: 1.6.2020 / 31.5.2024
Evidenčné číslo projektu:
Organizácia je koordinátorom projektu: nie
Koordinátor: Ústav kozmických výskumov Ruskej akadémie vied (IKI-RAN)
Počet spoluriešiteľských inštitúcií: 2 - Rusko: 1, Slovensko: 1
Čerpané financie: -

Dosiahnuté výsledky:

Projekt bol zrušený koncom februára 2022 kvôli ruskej agresii voči Ukrajine. Žiadne prostriedky neboli čerpané v r. 2022.

20.) Interakcie amyloidných fibríl a nanočastíc pre biomedicínske, biochemické a inžinierske aplikácie (*Interactions of nanoparticles with amyloid fibrils: from therapy to nanomaterials*)

Zodpovedný riešiteľ: Zuzana Gažová
Trvanie projektu: 1.1.2022 / 31.12.2023
Evidenčné číslo projektu: SK-TW-21-0004
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 1 - Taiwan: 1
Čerpané financie: Podpora medzinárodnej spolupráce z národných zdrojov: 1000 €

Dosiahnuté výsledky:

Projekt sa venuje využitiu dvojakej povahu kovových nanočastíc (NPs) v komplexe s amyloidnými fibrilami globulárnych proteínov pre aplikácie v nanomedicíne (terapia amyloidóz) a chemickom inžinierstve (hybridné nanomateriály pre vylepšenie katalytickej aktivity NPs). V prvom roku riešenia projektu sme systematicky študovali tvorbu amyloidných fibríl alfa-laktalbumínu s kontrolovanými vlastnosťami v prítomnosti rôznych solí. Zistili sme, že prítomnosť rôznych kationov ovplyvňuje nielen kinetiku tvorby fibríl alfa-laktalbumínu, ale aj štruktúrne a morfológické vlastnosti. Pozorovaný efekt závisí od veľkosti kationu a hydratačného obalu.

[1] ANTOŠOVÁ, Andrea - GANČÁR, Miroslav - BEDNÁRIKOVÁ, Zuzana - MAREK, Jozef - BYSTRENOVÁ, Eva** - GAŽOVÁ, Zuzana**. The influence of cations on alpha-lactalbumin amyloid aggregation. In Journal of Biological Inorganic Chemistry, 2022, vol. 27, no. 7, p.679-689.

[2] GANČÁR, Miroslav - ANTOŠOVÁ, Andrea - BEDNÁRIKOVÁ, Zuzana - MAREK, Jozef - BYSTRENOVÁ, Eva - GAŽOVÁ, Zuzana. Cations' influence on amyloid aggregation of alpha-lactalbumin. In 9th Scandinavian and Baltic Conference, Amyloid Diseases and Amyloid Mechanisms (ADAM9) 14 – 16 November, 2022, Riga, Latvia, p. 58, Dostupné na: <https://adam9.osi.lv/abstract-book>

Programy: ERANET

21.) Teoretické a experimentálne štúdium nanomateriálov na báze oxyhydridov prechodových kovov pre supravodivosť a fotokatalýzu (*Theoretical and Experimental Study of Transition Metal Oxyhydride Nanomaterials for Superconductivity and Photocatalysis*)

Zodpovedný riešiteľ:	Karol Flachbart
Trvanie projektu:	1.10.2019 / 30.9.2022
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Institute for Energy Technology (IFE), Kjeller, Norway
Počet spoluriešiteľských inštitúcií:	7 - Litva: 2, Nórsko: 4, Rumunsko: 1
Čerpané financie:	Podpora medzinárodnej spolupráce z národných zdrojov: 10983 €

Dosiahnuté výsledky:

V priebehu rokov 2020, 2021 a 2022 boli kolegami z Institute for Energy Technology (IFE), Kjeller, Nórsko, a kolegami z Lithuanian Energy Institute (LEI), Kaunas, Litva, navrhnuté a pripravené viaceré vzorky (tenké vrstvy) rôznych oxy-hydridov (YHO, GdHO, TiHO), ktoré mali rôzne zloženie a rôznu hrúbku. Žiaľ, všetky experimentálne študované vzorky vykazovali polovodičový charakter vodivosti (ich elektrický odpor so znižovaním teploty rástol) a neboli supravodivé. Príčinou toho bola s najväčšou pravdepodobnosťou skutočnosť, že v oxy-hydridoch prítomné atómy kyslíka výrazne redukujú hustotu vodivostných elektrónov, čo neumožňuje vytvorenie podmienok pre vznik supravodivého stavu.

Publikované výstupy:

[1] S. Gabáni, J. Cedervall, G. Ek, C.C. You, J. Bačkai, E. Gažo, M. Orendáč, S. Karazhanov, K. Flachbart, Search for Superconductivity in High Entropy Alloy Hydrides and in Transition Metal Oxy-hydrides, 13th Int. Conference on Materials and Mechanisms of Superconductivity, Vancouver, Canada, 2022, Abstract Book, p. 326.

[2] S. Gabáni, J. Cedervall, G. Ek, G. Pristáš, M. Orendáč, J. Bačkai, O. Onufrienko, E. Gažo, K. Flachbart, Search for superconductivity in hydrides of TiZrNb, TiZrNbHf and TiZrNbHfTa equimolar alloys, Physica B 648 (2023) 414414.
<https://doi.org/10.1016/j.physb.2022.414414>

22.) Dvojmerná van der Waalsovská spinovo-orbitálna torzná technológia (*2Dimensional van der Waals Spin-Orbit Torque Technology*)

Zodpovedný riešiteľ:	Martin Gmitra
Trvanie projektu:	1.12.2021 / 29.11.2024
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	4 - Nemecko: 1, Maďarsko: 1, Holandsko: 1, Švédsko: 1
Čerpané financie:	Podpora medzinárodnej spolupráce z národných zdrojov: 41667 €

Dosiahnuté výsledky:

Na základe získanej kvalifikovanej špecifikácie pre multiprocessorový výpočtovú stanicu sme uskutočnili nákup výpočtovej multiprocessorovej stanice v súlade so schváleným investičným (kapitalovým) plánom projektu na rok 2021. Za najdôležitejšie výsledky v rámci riešenia projektu v roku 2022 sa považujeme prípravu spoločných publikácií pri štúdiu elektrónových vlastností v misfitových štruktúrach a štúdiu spinového mixovacieho parametra v dvojmerných dichalkogénoch prechodových kovov s návrhom metodiky na predikciu isingovskej supravodivosti typu-II. Publikácie budú publikované v roku 2023.

23.) Flexibilné magnetické vlákna: Vlastnosti a aplikácie (*Flexible Magnetic Filaments: Properties and Applications*)

Zodpovedný riešiteľ:	Peter Kopčanský
Trvanie projektu:	1.9.2018 / 31.12.2022
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	nie
Koordinátor:	University of Latvia
Počet spoluriešiteľských inštitúcií:	2 - Francúzsko: 1, Lotyšsko: 1
Čerpané financie:	Podpora medzinárodnej spolupráce z národných zdrojov: 12166 €

Dosiahnuté výsledky:

V roku 2022 boli ukončené a analyzované viaceré experimenty v súlade s projektovými zámermi. Tieto výsledky boli následne prezentované formou viacerých karentovaných publikácií a kapitoly v knihe, ako aj na medzinárodných vedeckých konferenciách. Spomenúť možno predovšetkým konferenciu „13th International Conference on the Scientific and Clinical Applications of Magnetic Carriers“ v Londýne (14.-17. jún 2022), kde mimo prezentovania našej práce sme boli účastní množstva kvalitných vedeckých diskusií prínosných pri riešení projektu.

V práci [1] bol analyzovaný ohrievací efekt magnetitových nanočastíc rôznych konfigurácií dvoma prístupmi. Na ich ohrev sa použilo striedavé magnetické pole, resp. rotujúce magnetické pole. Následne sa sledovala odozva častíc vo forme stabilného koloidu individuálnych častíc (magnetická kvapalina), vo forme reťazcov/filamentov (magnetozómov), ako aj mix koloidných systémov magnetickej kvapaliny a magnetozómov. Ukázalo sa, že spôsob generovania magnetického poľa, ako aj usporiadanie magnetických častíc vo vzorke (individuálne vs filamenty vs ich mix) významne vplývajú na parametre magnetickej hypertermie akými sú ohrievacia rýchlosť, či špecifická rýchlosť absorpcie (SAR). Analýzou ohrievacej schopnosti rôznych typov magnetických štruktúr v podmienkach aplikovaného striedavého resp. rotujúceho magnetického poľa sme sa venovali aj v prácach [2, 3]. V štúdiu [2] sme analyzovali magneticky modifikovanú bakteriálnu celulózu (BC).

Štruktúry BC sú tvorené extracelulárne vylučovanými nanovláknami produkovanými počas vhodného kultivačného procesu rôznymi druhmi baktérií, vrátane gramnegatívnych baktérií *Acetobacter*, *Azotobacter*, *Rhizobium*, *Agrobacterium*, *Pseudomonas*, *Salmonella* alebo *Alcaligenes*, ako aj grampozitívnych baktérií *Sarcina ventriculi*. Priemer nanovláknien je asi 100 nm a tvoria koherentnú 3D sieť. Magneticky modifikovaná BC má jedinečné chemické, fyzikálne a biologické vlastnosti. Takýto biopolymér má veľký potenciál pre vývoj nových biomateriálov pre medicínske aplikácie. V rámci problematiky „bio-filamentov“ (konkrétne magnetozómov) bol publikovaný aj prehľadový článok [4] s názvom „Magnetotactic Bacteria: From Evolution to Biomineralization and Biomedical Applications“, ktorý poskytuje mnohé prehľadové informácie pre širokú verejnosť v danej oblasti. Taktiež sme pokračovali v štúdiu problematiky kvapalných kryštálov dopovaných magnetickými nanočasticami. Magnetická modifikácia umožňuje orientovať molekuly kvapalného kryštálu mimo elektrického aj magnetickým poľom. V práci [5] bol skúmaný kombinovaný účinok koncentrácie nanočastíc a hrúbky meracej cely na dielektrické a elektrické vlastnosti homeotropicky usporiadaných nematických kvapalných kryštálov. Novou skúmanou oblasťou / materiálom vo vývoji nových magnetických filamentov sú Pickeringové emulzie na báze rôznych typov magnetických systémov. Plánujeme modifikovať kvapky (droplety) vysokoviskózných tekutín magnetickými materiálmi rôznych parametrov (magneticky upravený halloysit, magnetozómy a iné). Prvotné experimenty na Pickeringových emulziách na báze dropletov ricínového oleja stabilizovaných magnetitovými nanočasticami boli vykonané v práci [6], pričom boli skúmaný ich ohrievací efekt v podmienkach rotujúceho magnetického poľa. Z publikovaných prác možno ešte spomenúť kapitolu v knihe [7]: „Dielectric and Magnetic Properties of Nanofluids“ vo vydavateľstve „The Royal Society of Chemistry“, kde sa okrem iného venuje aj pozornosť štrukturalizačným procesom magnetických častíc, ktoré pod vplyvom elektrického poľa, vytvárajú ihlicovité útvary v modelovom kondenzátore.

[1] MOLČAN, Matúš - SKUMIEL, Andrzej - TIMKO, Milan - ŠAFAŘÍK, I. - ZOLOCHEVSKA, Kristina - KOPČANSKÝ, Peter. Tuning of Magnetic Hyperthermia Response in the Systems Containing Magnetosomes. In *Molecules*, 2022, vol. 27, no. 17, art. no. 5605. (2021: 4.927 - IF, Q2 - JCR, 0.705 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 1420-3049. Dostupné na: <https://doi.org/10.3390/molecules27175605> Typ: ADCA

[2] MOLČAN, Matúš** - ŠAFAŘÍK, I. - PROCHÁZKOVÁ-PROKEŠOVÁ, Jitka - KOPČANSKÝ, Peter - TIMKO, Milan - SKUMIEL, Andrzej. The impact of alternating and rotating regimes on the heating characteristics of magnetic bacterial cellulose structure. In *Journal of Magnetism and Magnetic Materials*, 2022, vol. 563, art. no. 170015. (2021: 3.097 - IF, Q3 - JCR, 0.606 - SJR, Q2 - SJR, karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 0304-8853. Dostupné na: <https://doi.org/10.1016/j.jmmm.2022.170015> Typ: ADCA

[3] SKUMIEL, Andrzej - KOPČANSKÝ, Peter - TIMKO, Milan - MOLČAN, Matúš** - PAULOVÍČOVÁ, Katarína - WOJCIECHOWSKI, Rafal. The influence of a rotating magnetic field on the thermal effect in magnetic fluid. In *International Journal of Thermal Sciences*, 2022, vol. 171, art. no. 107258. (2021: 4.779 - IF, Q1 - JCR, 1.132 - SJR, Q1 - SJR). ISSN 1290-0729. Dostupné na: <https://doi.org/10.1016/j.ijthermalsci.2021.107258> Typ: ADCA

[4] STRBAK, Oliver - HNILICOVA, Petra - GOMBOS, Ján - LOKAJOVA, Alica - KOPCANSKY, Peter. Magnetotactic Bacteria: From Evolution to Biomineralization and Biomedical Applications. In *Minerals*, 2022, 12(11), 1403; DOI: 10.3390/min12111403 Typ: ADCA

[5] KOVALCHUK, Oleksandr V. - KOVALCHUK, T. M. - TOMAŠOVIČOVÁ, Natália - TIMKO, Milan - ZAKUTANSKA, Katarína - MIAKOTA, Dmytro - KOPČANSKÝ, Peter - SHEVCHUK, O.F. - GARBOVSKIY, Y. Dielectric and electrical properties of nematic liquid crystals 6CB doped with iron oxide nanoparticles. The combined effect of nanodopant concentration and cell thickness,

In Journal of Molecular Liquids, 2022, 366, art. no. 120305, DOI: 10.1016/j.molliq.2022.120305
Typ: ADCA

[6] BIELAS, Rafal - JAMEEL, Bassam - SKUMIEL, Andrzej - TIMKO, Milan - KOPČANSKÝ, Peter - JÓZEFČZAK, Arkadiusz. Magnetic pickering emulsions heated in a rotating magnetic field, In Journal of Magnetism and Magnetic Materials, 2022, 563, art. no. 169946, DOI: 10.1016/j.jmmm.2022.169946 Typ: ADCA

[7] TIMKO, Milan - KOPČANSKÝ, Peter – RAJNAK, Michal – KARPETS, Maksym – PAULOVICOVA, Katarina - KOVALCHUK, Oleksandr V. – BULAVIN, Leonid A. Fundamentals and Transport Properties of Nanofluids, Chapter 9 "Dielectric and Magnetic Properties of Nanofluids", 2023, p. 301-313, publisher: The Royal Society of Chemistry, ISBN 978-1-83916-419-4, DOI: 10.1039/9781839166457-00301. Typ: BBA

Programy: European Space Agency (ESA)

24.) Slovenský príspevok k misii ESA-JUICE: Vývoj anti-koincidenčného modulu ACM pre časticový komplex PEP (*Slovak contribution to ESA-JUICE mission: Development of Anti-Coincidence Module ACM for Particle Environment Package PEP*)

Zodpovedný riešiteľ: Ján Baláž
Trvanie projektu: 15.11.2018 / 31.5.2023
Evidenčné číslo projektu: ESA-PECS SK3-03, Contract No. 4000125788/18/NL/SC
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spolurieš. inštitúcií: 0
Čerpané financie: ESA: 14563 €

Dosiahnuté výsledky:

Anti-koincidenčný detektorový modulu ACM je súčasťou vedeckého komplexu PEP, ktorý je inštalovaný na palube sondy JUICE a dlhodobo testovaný v rámci sondy JUICE ako celku. Vzhľadom na oneskorenie misie kvôli Covid pandémie (štart mal byť v máji 2022) bola sonda koncom roka 2022 ešte finalizovaná a testovaná v termovákovej komore v Toulouse Space Centre, Francúzsko. ACM absolvoval všetky testy bez akýchkoľvek anomálií. Štart sondy JUICE je t.č. plánovaný na 14.4.2023. Pre testovanie a charakterizáciu systému PEP (aj počas letovej fázy JUICE) je vo vývoji systém RATEX-J-Lab (RADIATION TEST EXperiment for JUICE). Bola dokončená elektronická doska digitálnej časti systému. Front-end doska pre dva polovodičové detektory SSD, jednu mikrokanálovú dosku MCP a kanálový elektrónový násobič CEM je vo fáze re-dizajnu kvôli novým skutočnostiam zisteným počas vývoja ACM detektora.

25.) JEM-EUSO, Kozmické Observatórium Extrémneho Vesmíru na palube Japonského Experimentálneho Modulu

Zodpovedný riešiteľ: Pavol Bobík
Trvanie projektu: 1.1.2010 / 31.12.2022
Evidenčné číslo projektu:
Organizácia je koordinátorom projektu: nie
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spolurieš. inštitúcií: 0
Čerpané financie: Podpora medzinárodnej spolupráce z národných zdrojov: 15000 €

Dosiahnuté výsledky:

Hlavným výsledkom uplynulého roka bola publikácia súhrnného článku o EUSO-ballon experimente v Space Science Reviews [1]. Článok sumarizuje výsledky letu EUSO-ballon experimentu z roku 2014, ktorý umožnil dobré porozumenie výkonnosti detektoru a ukázal na možnosti jeho vylepšenia. Okrem toho umožnil detailné meranie počtov fotoelektrónov pri rôznych atmosférických podmienkach.

V priebehu roka boli dokončené štyri fotometre EMON pre balónovú misiu NASA-SPB2 a pokračovali práce na výskume rôznych aspektov produkcie airglow žiarenia atmosférou Zeme.

[1] Adams J. H., ... Bobík P.,..., Mackovjak S., ..., Putis M., ..., A Review of the EUSO-Balloon Pathfinder for the JEM-EUSO Program, Space Science Reviews, Volume 218, Issue 1, article id.3, 2022, IF 8.943 Q1

26.) Space Ionizing Radiation Experts Nursery

Zodpovedný riešiteľ: Ronald Langer
Trvanie projektu: 1.1.2020 / 31.12.2022
Evidenčné číslo projektu: ESA 4000132782/20/NL/SC
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spolurieš. inštitúcií: 0
Čerpané financie: 0

Dosiahnuté výsledky:

27.) Follow-up of feasibility study to observe ionospheric disturbances by airglow monitoring network (AMON-net)

Zodpovedný riešiteľ: Šimon Mackovjak
Trvanie projektu: 1.10.2018 / 30.9.2022
Evidenčné číslo projektu: ESA-PECS SK2-09
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spolurieš. inštitúcií: 0
Čerpané financie: ESA: 19710 €

Dosiahnuté výsledky:

28.) Feasibility study of data-driven Autonomous Service for Prediction of Ionospheric Scintillations (ASPIS)

Zodpovedný riešiteľ: Šimon Mackovjak
Trvanie projektu: 1.1.2022 / 31.12.2023
Evidenčné číslo projektu: áno
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spolurieš. inštitúcií: 0
Čerpané financie: ESA: 19662 €

Dosiahnuté výsledky:

29.) Proposal for Slovak universities curriculum adaptation toward S2P market (SK-S2P-Edu)

Zodpovedný riešiteľ: Šimon Mackovjak
Trvanie projektu: 1.12.2022 / 31.10.2023
Evidenčné číslo projektu:
Organizácia je koordinátorom projektu: nie
Koordinátor: Fakulty elektrotechniky a informatiky Technickej univerzity v Košiciach
Počet spolurieš. inštitúcií: 0
Čerpané financie: ESA: 4261 €

Dosiahnuté výsledky:

30.) Slovakia national Space Safety Programme(S2P) study (SK-S2P)

Zodpovedný riešiteľ: Šimon Mackovjak
Trvanie projektu: 1.12.2021 / 31.12.2022
Evidenčné číslo projektu:
Organizácia je koordinátorom projektu: nie
Koordinátor: Astros Solutions
Počet spolurieš. inštitúcií: 0
Čerpané financie: ESA: 6879 €

Dosiahnuté výsledky:

Vypracovaná technická dokumentácia a plán zapojenia slovenských entít to Programu kozmickej bezpečnosti - Európska vesmírna agentúra.

Programy: Iné

31.) Výskum masívnych supravodičov (*Research on bulk superconductors*)

Zodpovedný riešiteľ: Pavel Diko
Trvanie projektu: 1.5.2018 / 30.4.2023
Evidenčné číslo projektu: 1/2018
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spolurieš. inštitúcií: 1 - Česko: 1
Čerpané financie: -

Dosiahnuté výsledky:

Programy: Horizont 2020

32.) Európska Mikrokkelvinová Platforma (*European Microkelvin Platform*)

Zodpovedný riešiteľ:	Peter Skyba
Trvanie projektu:	1.1.2019 / 30.6.2023
Evidenčné číslo projektu:	824109
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Kirchoff Institute fur Physik, Heidelberg University, Heidelberg, Germany/ prof. Dr. Christian Enss
Počet spoluriešiteľských inštitúcií:	6 - Rakúsko: 1, Fínsko: 1, Francúzsko: 1, Veľká Británia: 2, Švajčiarsko: 1
Čerpané financie:	H2020: 198818 €

Dosiahnuté výsledky:

Výsledky v rámci riešenie projektu EMP projekt číslo 824109 H2020 za rok 2022:

- Návrh, výroba a testovanie medeného jadrového stupňa umožňujúceho dosiahnúť submilikelvinové teploty pre "suché" refrigerator,
- Návrh, výroba a testovanie platinového JMR teplomera pre submilikelvinové oblasť,
- Návrh, konštrukcia a testovanie špeciálnej meracej elektroniky pre merania pri nízkych a veľmi nízkych teplotách (vf- prevodníky prúd/napätie, diferenčné zosilňovače, vf prevodníky napätie/prúd, atď.).
- Organizovanie konferencie EMP User meeting 2022, September 2022,
- Poskytnutie experimentálnych zariadení CFNT ÚEF SAV v.v.i. pre celkovo 14 projektov podaných v rámci TNA aktivity projektu EMP.
- Popularizačné activity, pozvané prednášky, prezentácie na konferenciách.
- Výsledky získané v rámci projektu EMP, vrátane publikácií sú zverejnené na web stránke projektu: www.emplatform.eu.

Programy: JRP

33.) Stavby tenzorových sietí Algoritmy a aplikácie (*Tenso-Network States Algorithms and Applications*)

Zodpovedný riešiteľ:	Andrej Gendiar
Zodpovedný riešiteľ v organizácii SAV:	Hana Vargová
Trvanie projektu:	1.1.2021 / 31.12.2022
Evidenčné číslo projektu:	108-2112-M-002-020-MY3
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	-

Dosiahnuté výsledky:

- [1] Genzor, J; Gendiar, A and Kao, YJ, Phys. Rev. E 105 (2022) 024124.
- [2] Nakayama, K; Funcke, L; Jansen, K; Kao, YJ; Kuhn, S, Phys. Rev. D 105 (2022) 054507.
- [3] Krcmar, R; Gendiar, A and Samaj, L, Phys. Rev. E 105 (2022) 054112.
- [4] Chen, YH; Genzor, J; Kim, YB; Kao, YJ, Phys. Rev. B 105 (2022) L060403.

34.) Dynamické štúdium amyloidnej agregácie proteínov pomocou magnetických zeolitových nanočastíc

Zodpovedný riešiteľ:	Peter Kopčanský
Trvanie projektu:	1.1.2018 / 31.12.2022
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	Podpora medzinárodnej spolupráce z národných zdrojov: 6250 €

Dosiahnuté výsledky:

Riešením úloh projektu zameraných na štúdium účinku nano/mikročastíc na amyloidnú agregáciu proteínov (zeolity, nanočastice (NP) na báze Fe₃O₄ a CeO₂ NPs) a na dizajn a testovanie magnetických nanočasticových systémov na cieleň transport liečiv sme ukázali:

i) Deštrukčný efekt feritínových derivátov, rekonštruovaného feritínu a magnetoferitínu na amyloidné fibrily lysozýmu. Kombináciou viacerých metód a techník sme odhalili. Že schopnosť rozrušiť amyloidné štruktúry je podmienené prítomnosťou železa. Na druhej strane však, interakcia feritínových derivátov s lysozýmovými amyloidnými fibrilami vedie k uvoľňovaniu potenciálne nebezpečných železnatých iónov. Javí sa teda, že pripravené deriváty feritínu, rekonštruovaný feritín (RF) a magnetoferitín (MF) disponujú dvojakým účinkom: a) terapeutickým, antiamyloidným so schopnosťou rozrušiť amyloidné fibrily; a b) nepriaznivým, ktorý môže viesť k oxidačnému stresu v dôsledku uvoľňovania Fe²⁺ iónov. Tieto aspekty však môžu významne prispieť v dizajne nových biomedicínskych aplikácií [1].

ii) Perspektívu použitia ultrazvukovej transmisnej tomografie (UTT) v teranostike. Preukázali sme, že systémy dopované magnetickými nanočasticami slúžiacimi ako mediátory, vykazujú značné zlepšenie kontrastu pri UTT. Nanočasticami dopované systémy v procese ultrazvukového ohrevu generujú teplo a pozorujeme indukované zvýšenie teploty, čo predstavuje sľubný teranostický prístup [2]. Tvorbu tepla v systémoch obsahujúcich nanočastice sme pozorovali po aplikovaní vonkajšieho magnetického poľa na tzv. Pickeringové emulzie, kde nanočastice pôsobia ako stabilizátory [3].

iii) Využitie magnetooptickej aktivity kompozitných systémov obsahujúcich magnetické nanočastice. Aplikácia vonkajšieho magnetického poľa na systémy obsahujúce magnetické častice sa prejaví aktivitou známou ako Faradayov a Cotton-Moutonov efekt, kedy dochádza napr. k stočeniu roviny polarizácie vzorkou prechádzajúceho polarizovaného svetla. To umožňuje určiť hodnotu magnetického poľa. Teoretickými výpočtami bol navrhnutý systém mapovania magnetického poľa, čo je potrebné s ohľadom na biomedicínske aplikácie systémov obsahujúcich magnetické častice, ako napr. cieleň transport liečiv, magnetické zobrazovacie techniky, hypertermia [4,5].

[1] Gombos, J., Balejcikova, L., Kopcansky, P., Batkova, M., Siposova, K., Kovac, J., Zolochovska, K., Safarik, I., Lokajova, A., Garamus, V.M., Dobrota, D., Strbak, O. Destruction of Lysozyme Amyloid Fibrils Induced by Magnetoferritin and Reconstructed Ferritin. *Int. J. Mol. Sci.*, 2022, 23(22), 13926

[2] Józefczak, A., Opieliński, K.J., Bielas, R., Pruchnicki, P., Bułkowski, M., Jędrzak, A., Šafařík, I., Kopčanský, P. Ultrasound transmission tomography-guided heating with nanoparticles. *Meas.: J. Int. Meas. Confed.*, 2022, 197, art. no. 111345

[3] Bielas, R., Jameel, B., Skumiel, A., Timko, M., Kopčanský, P., Józefczak, A. Magnetic pickering emulsions heated in a rotating magnetic field. *J. Magn. Mater.*, 2022, 563, art. no. 169946

[4] Oganessian, K.B., Dzierzga, K., Kopcansky, P., Gevorgyan, A.H., Timko, M. Polarimetric method of plasma diagnostics. *Laser Phys. Lett.*, 2022, 19 (9), art. no. 096001

[5] Oganessian, K.B., Hnatic, M., Kopcansky, P. An electron wave packet in the relativistic strophotron FEL. *Laser Phys. Lett.*, 2022, 19 (1), art. no. 016001

35.) Anti-amyloidná aktivita kompozitov na báze zeolitov a analýza so zobrazovaním vo vysokom rozlíšení a v reálnom čase (*Anti-amyloid activity of zeolite-based composites and analysis with real-time 3d super-resolution imaging*)

Zodpovedný riešiteľ:	Katarína Šipošová
Trvanie projektu:	1.1.2022 / 31.12.2024
Evidenčné číslo projektu:	SAS-MOST JRP 2021/2
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Taiwan: 1
Čerpané financie:	Podpora medzinárodnej spolupráce z národných zdrojov: 25000 €

Dosiahnuté výsledky:

Jedným z najatraktívnejších moderných farmaceutických prístupov je použitie multifunkčných materiálov. V rámci projektu sa zameriavame hlavne na využitie zeolitov na báze klinoptilolitu (CZ). Mezoporézná štruktúra klinoptilolitu umožňuje absorbovať rôzne typy látok, vrátane nanočastíc a teda, CZ-kompozity môžu byť použité ako sľubné biokompatibilné nosiče pre ciele podávanie liečiva s riadeným uvoľňovaním. Multifunkčné CZ kompozity boli pripravené inkorporovaním fluorescenčných farbív, Al-ftalocyanínu, Zn-porfínu a hypericínu do pórov klinoptilolitu. Skúmali sme a porovnávali vplyv fluorescenčných látok samostatne a aj vo forme kompozitov CZ na amyloidogénu inzulínu, biokompatibilitu, bunkovú metabolickú aktivitu a fluorescenčnú farmakokinetiku. Druhou študovanou skupinou častíc s potvrdenou anti-amyloidnou aktivitou boli nanočastice oxidu ceričitého (CeO₂) a magnetické, magnetitové častice (Fe₃O₄) tvoriace jadro magnetoferitínu a jeho derivátov [1,2]. Okrem toho, javí sa, že v procesoch amyloidnej agregácie majú významnú úlohu hydrofóbne interakcie amyloidogénnych proteínov s membránami, resp. s jednotlivými zložkami bunkových membrán. Na druhej strane, práve fosfolipidy a detergenty sú často používané na povrchovú modifikáciu nanočastíc za účelom zabezpečenia ich biocompatibility. Monitorovaním vplyvu detergent obsahujúceho cholesterol (chobimalt) sme zistili, že dokáže významne ovplyvniť nielen časový priebeh, ale aj výslednú morfológiu amyloidných fibril v závislosti od koncentračného pomeru proteín:chobimalt [3]. Terapeutický potenciál multikompozitov obsahujúcich magnetické častice, fotoaktívne látky je možné riadiť a kontrolovať, obzvlášť pri ko-aplikácii externého žiarenia, resp. magnetického poľa, ultrazvuku a podobne. Ukázali sme, že aplikácia striedavého a/alebo rotujúceho magnetického poľa vedie k tvorbe tepla v procesoch hypertermie [4-6]. Ukázali sme, že individuálne nanočastice disponujú silnejšou odozvou na rotujúce magnetické pole v porovnaní s nanočasticami usporiadanými v retiazkach (magnetozómy) [3,4]. Navyše, nanočasticami je možné modifikovať rôzne systémy, vrátane nanotextílií [4]. Magnetické nanočastice usporiadané na povrchu kvapiek vytvárajú tzv. Pickeringé emulzie a pôsobia ako stabilizátory. Vďaka odozve na vonkajšie magnetické pole sa navyše stávajú zdrojom tepla [5].

[1] Gombos, J., Balejcikova, L., Kopcansky, P., Batkova, M., Siposova, K., Kovac, J., Zolochovska, K., Safarik, I., Lokajova, A., Garamus, V.M., Dobrota, D., Strbak, O. Destruction of Lysozyme Amyloid Fibrils Induced by Magnetoferitin and Reconstructed Ferritin. *Int. J. Mol. Sci.*, 2022, 23(22), 13926

[2] Shlapa, Yu.; Solopan, S.; Sarnatskaya, V.; Siposova, K.; Garcarova, I.; Veltruska, K.; Timashkov, I.; Lykhova, O.; Kolesnik, D.; Musatov, A.; Nikolaev, V.; Belous, A. Cerium Dioxide Nanoparticles Synthesized via Precipitation at Constant pH: Synthesis, Physical-Chemical and Antioxidant Properties. *Colloids and Surfaces B: Biointerface* 2022, 112960

[3] Siposova, K.; Petrenko, V.I.; Garcarova, I.; Sedlakova, D.; Almasy, L.; Kyzyma, O.A.; Kriechbaum, M.; Musatov, A. The intriguing dose-dependent effect of selected amphiphilic compounds on insulin amyloid aggregation: Focus on a cholesterol-based detergent, Chobimalt. *Front. Mol. Biosci.* 2022, 9, 955282

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[5] Molcan, M., Safarik, I., Prochazkova, J., Kopcansky, P., Timko, M., Skumiel, A. The impact of alternating and rotating regimes on the heating characteristics of magnetic bacterial cellulose structure. *J. Magn. Magn. Mater.*, 2022, 563, art. no. 170015

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[7] Oganessian, K.B., Dzierżga, K., Kopcansky, P., Gevorgyan, A.H., Timko, M.; Polarimetric method of plasma diagnostics, (2022), *Laser Physics Letters*, 19 (9), art. no. 096001

Programy: Mobility

36.) Stabilita a agregácia globulárnych proteínov v prítomnosti biokompatibilných iónových kvapalín (*Stability and aggregation of globular proteins in the presence of biocompatible ionic liquids*)

Zodpovedný riešiteľ:	Diana Fedunová
Trvanie projektu:	1.1.2021 / 31.12.2022
Evidenčné číslo projektu:	BAS-SAS-21-02
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	Mobility SAV: 2000 €

Dosiahnuté výsledky:

Pokračovali sme v štúdiu vplyvu biokompatibilných iónových kvapalín na báze aminokyselín na stabilitu a amyloidnú agregáciu globulárnych proteínov s cieľom identifikovať modulátory procesov amyloidnej agregácie a morfológie amyloidných fibríl. Zistili sme, že urýchľujúci resp. inhibičný efekt IK na kinetiku amyloidnej agregácie inzulínu závisí nielen od hydrofobicity a polarizácie aniónov a kationov ale aj od špecifických interakcií IK-proteín resp. samotných zložiek IK. Z analýzy AFM obrázkov sme zistili, že jednotlivé IK indukovali tvorbu morfológicky odlišných fibríl [1].

Zavedli sme novú metódu a pripravili protokoly priameho merania kinetiky agregácie lysozýmu pomocou priamej detekcie fluorescencie tioflavínu v platničkovej čítačke. Táto technika má vyššiu presnosť, citlivosť a nízku spotrebu materiálu.

Naše výsledky ukazujú, že IK na báze aminokyselín sú schopné modulovať amyloidnú agregáciu a

morfológiu fibríl študovaných proteínov v závislosti od chemicko-fyzikálnych vlastností IK, čo môže byť prospešné pri využívaní amyloidných agregátov ako nanomateriálov. Okrem toho môže práca prispieť k lepšiemu pochopeniu všeobecného mechanizmu amyloidnej agregácie.

Spolu s bulharským pracoviskom sme podali projekt v rámci výzvy M-ERA.NET (Call Topic: New strategies for advanced material-based technologies in health applications, názov projektu: Application of electromagnetic field in transdermal drug delivery.

V dňoch 18.9. - 21.9. slovenskí riešitelia projektu navštívili partnerské pracovisko - Institute of Organic Chemistry with Centre of Phytochemistry, BAS v Sofii, kde sme analyzovali získané výsledky, postup záverečných experimentov a prípravu publikácie. Zodpovedná riešiteľka projektu z bulharskej strany navštívila naše pracovisko v dňoch 7.12.-10.12, kde sme okrem spracovania výsledkov a prípravy publikácie prediskutovali možnosti ďalšej spolupráce.

[1] FEDUNOVÁ, D. - GUNCHEVA, M. - VANÍK, V. - BEDNÁRIKOVÁ, Z. - GANČÁR, M. - GAŽOVÁ, Z. Modulation of insulin amyloid aggregation by amino acid-based ionic liquids: anion role. In 10th Slovak Biophysical Symposium, Máj 3-5, 2022, Smolenice : Book of Contributions., p. 114-115.

37.) Supravodivé vlastnosti tenkých vrstiev boridov (*Superconducting properties of boride thin films*)

Zodpovedný riešiteľ:	Karol Flachbart
Trvanie projektu:	1.1.2021 / 31.12.2022
Evidenčné číslo projektu:	Mob-Open-20-04
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Rakúsko: 1
Čerpané financie:	Mobility SAV: 1826 €

Dosiahnuté výsledky:

V roku 2022 bol urobený ďalší pokus pripraviť tenké vrstvy YB6 - tretou metódou - pomocou pulzného nanášania laserom (pulsed laser deposition). Aj touto metódou získané tenké vrstvy však mali polovodičový priebeh odporu v závislosti na teplote (ich el. odpor s klesajúcou teplotou rástol) a nevykazovali supravodivosť.

Keďže problematika prípravy tenkých vrstiev YB6 nevedla k želaným výsledkom, pokračovali sme s kolegami s Leobenu na už v minulom roku započatom štúdiu supravodivosti tenkých vrstiev vysoko-entropických zliatin (VEZ), ktoré v Leobene vedia v rôznych zloženiach a hrúbkach pripraviť.

Zhotovené a študované tenké vrstvy VEZ vykazovali hrúbkovo závislú supravodivosť, a ukázalo sa, že aj vplyv vysokého tlaku na ich supravodivé vlastnosti závisí na hrúbke vrstvy. V roku 2022 boli tiež domerané mikro-kontaktové spektrá týchto vrstiev, vyhodnotené všetky dosiahnuté výsledky a bola pripravená spoločná publikácia. Publikácia bola zaslaná do prestížneho fyzikálneho časopisu Physical Review B. Zaslaná publikácia bola už medzitým prijatá:

- G. Pristáš, J. Bačkai, M. Orendáč, S. Gabáni, F. Košuth, M. Kuzmiak, P. Szabó, E. Gažo, R. Franz, S. Hirn, G.C. Gruber, C. Mitterer, S. Vorobiov, K. Flachbart, Physical Review B 107 (2023) 024505.

38.) Atmosférické elektrické pole a dynamika nabitých častíc a sekundárneho kozmického žiarenia vo vysokých horách (*Atmospheric electric field and dynamics of charged particles and secondary cosmic rays in high mountains*)

Zodpovedný riešiteľ: Ronald Langer
Trvanie projektu: 1.1.2021 / 31.12.2022
Evidenčné číslo projektu: SAV- AV ČR 21-01
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: Mobility SAV: 849 €

Dosiahnuté výsledky:

Pokračoval výskum vzťahov medzi magnetickým poľom slnečného vetra, bleskovou aktivitou (dáta z WWLLN) a sekundárnym kozmickým žiarením meraným na Lomnickom štíte (LŠ), s využitím dlhších časových radov. Pre kozmické žiarenie sa použili len dáta z neutrónového monitora na LŠ, pre blesky z európskej detekčnej siete EUCLID, ktorá poskytuje aj údaje o typoch bleskov.

V štádiu prípravy je článok o možnom vplyve slnečnej aktivity na atmosférické elektrické polia a vzrasty sekundárneho kozmického žiarenia počas búrkovej činnosti.

Publikovaný článok:

ŠLEGL, Jakub** - LANGER, Ronald - BRUNCLÍK, Tomáš - MAŠEK, Petr - STRHÁRSKY, Igor - AMBROŽOVÁ, Iva - CHUM, Jaroslav - PLOC, Ondřej. SPECTROMETRY OF HIGH-ENERGY PHOTONS ON HIGH MOUNTAIN OBSERVATORY LOMNICKY ŠTÍT DURING THUNDERSTORMS. In Radiation Protection Dosimetry, 2022, vol. 198, no. 9-11, p. 623-627. (2021: 0.954 - IF, Q4 - JCR, 0.355 - SJR, Q3 - SJR). ISSN 0144-8420. Dostupné na: <https://doi.org/10.1093/rpd/ncac108> Typ: ADCA

Prezentácie na konferenciách a workshopoch:

Chum J., Langer R., Chilingarian A., Ruzs J., Baše J., Significant TGEs on Lomnický Štít, TEPA 2022, Praha 17.-20. October 2022

Chum J., Diendorfer G., Langer R., Ruzs J., Saxonbergová D., Strhárský I., On the relations between lightning, solar wind, solar activity and cosmic rays, 26. celoštátny slnečný seminár, Piešťany 6.-10., June 2022

Chum J., Kollárik M., Kolmašová I., Langer R., Ruzs J., Saxonbergová D., Strhárský I., Is there a relation between the heliospheric magnetic field, cosmic rays and atmospheric electricity?, STP-15 symposium, 21-25 February 2022, India (online)

Domáce projekty

Programy: VEGA

1.) Kozmické žiarenie v heliosfére s terminačnou rázovou vlnou a heliosférickou obálkou

Zodpovedný riešiteľ: Pavol Bobík
Trvanie projektu: 1.1.2020 / 31.12.2023
Evidenčné číslo projektu: 2/0077/20
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 2457 €

Dosiahnuté výsledky:

Hlavným výsledkom je zverejnenie a spustenie do ostrej prevádzky systému COR, na výpočet trajektórií kozmického žiarenia v magnetosfére Zeme (na adrese <https://cor.crmodels.org/>, a zdrojového kódu na GitHube na adrese https://github.com/COR-Cut-off-rigidity/Trajectories_IGRF_T04_C) a publikácia článku o COR systéme v časopise *Advances in Space Research* [1], ktorý je tradičným miestom publikácií o téme trajektórií kozmického žiarenia v magnetosfére Zeme. COR systém je jedným z mála dostupných systémov/nástrojov zameraných na výpočet trajektórií kozmického žiarenia v magnetosfére Zeme. Dalším bol článok v ktorom sme podrobne analyzovali chybu SDE metódy na výpočet modulácie kozmického žiarenia v heliosfére [2]. Ďalšie témy rozvíjané pri riešení projektu boli príspevky zamerané na simuláciu interakcie kozmického žiarenia s ľudským okom [3] a difúznemu koeficientu kozmického žiarenia v heliosfére [4].

[1] Gecášek Daniel; Bobík Pavol; Genčí Ján; Villim Ján, Vaško Martin, COR system: A tool to evaluate cosmic ray trajectories in the Earth's magnetosphere, *Advances in Space Research*, Volume 70, Issue 4, p. 1153-1168. August 2022, DOI: 10.1016/j.asr.2022.06.001

[2] Mykhailenko V., Bobik P., Statistical Error for Cosmic Rays Modulation Evaluated by SDE Backward in Time Method for 1D Model, *Fluids* 7, p. 46, January 2022, DOI: 10.3390/fluids7020046

[3] Simulation of cosmic rays interaction with simple human eye model in geant 4 package, 26. Konferencia slovenských fyzikov, 5.-8.9.2022, Košice

D. Švecová, P. Bobík, B. Pastirčák,

[4] Diffusion coefficient for cosmic ray modulation models, 26. Konferencia slovenských fyzikov, 5.-8.9.2022, Košice

2.) Dekoherencia v mechanických rezonátoroch pri nízkych teplotách

Zodpovedný riešiteľ: Marcel Človečko
Trvanie projektu: 1.1.2022 / 31.12.2025
Evidenčné číslo projektu: VEGA 2/0093/22
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 7076 €

Dosiahnuté výsledky:

3.) Štruktúra, supravodivé a mechanické vlastnosti masívnych REBCO supravodičov (*Structure, superconducting and mechanical properties of bulk REBCO superconductors*)

Zodpovedný riešiteľ: Pavel Diko
Trvanie projektu: 1.1.2022 / 31.12.2024
Evidenčné číslo projektu: VEGA 2/0094/22
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 15083 €

Dosiahnuté výsledky:

Pavel Diko, Kapitola G1.5 Optical Microscopy (pages 71-94) v monografii Handbook of Superconductivity Fundamentals and Materials: Characterization and Applications, Volume Three (2nd Edition), Edited By Cardwell, D.A., Larbalestier, D.C., & Braginski, A., (2022) Pages: 880, CRC Press, Boca Raton, <https://doi.org/10.1201/9781003139638>

Qiang Gao, Yanhan Zhu, Xiafan Gu, Jiayi Zhou, Monika Radušovská, Jinyu He, Difan Zhou, Pavel Diko, Xin Yao, Enhanced magnetic properties of YBCO bulk superconductors with tailored structure by a novel seeding assembly, *Ceramics International* 2022, 48(21), pp. 32056–32063. Q1, IF 4.527 5.532, DOI10.1016/j.ceramint.2022.07.144 OMF

Zmorayova Katarina, Diko Pavel and Yao Xin, Microstructure of YBCO bulk samples grown via 45°-twin-seeds, *METALLOGRAPHY & Fractography*'22, 27. - 29. apríl 2022, Nový Smokovec, Vysoké Tatry, SR

4.) Teoretické štúdium kooperatívnych javov v silne korelovaných elektrónových a spinových systémoch (*Theoretical study of cooperative phenomena in strongly correlated electron and spin systems*)

Zodpovedný riešiteľ: Pavol Farkašovský
Trvanie projektu: 1.1.2022 / 31.12.2025
Evidenčné číslo projektu: VEGA 2/0037/22
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 3538 €

Dosiahnuté výsledky:

Navrhli sme dva nové modely (komplexný spinovo-elektrónový model a efektívny Coupled double-Ising model) pre popis magnetizačných vlastností a termodynamiky tetraboridov vzácnych zemín (RB4), ktoré na rozdiel od predchádzajúcich modelov zohľadňujú rôzne veľkosti spinov v spinovom a elektrónovom podsysteme, hubbardovskú interakciu a interakciu medzi týmito podsystemami. Naše numerické simulácie ukázali, že kombinácia týchto faktorov má veľký potenciál objasniť viaceré z fyzikálne zaujímavých javov pozorovaných v RB4, ako napríklad formovanie jedinej 1/2 zdrže v magnetizačných krivkách TmB4 a ErB4 alebo výrazný magnetokalorický efekt. Tieto modely navyše predpovedali v teplotnej závislosti špecifickej tepelnej kapacity jeden vrchol odpovedajúci spinovému podsystemu, ktorý korešponduje s meraniami v TmB4 a ErB4, a ďalší

elektrónový vrchol objavujúci sa pri niekoľko násobne nižších teplotách.

[1] P. FARKAŠOVSKÝ, Superconducting correlations in the two-dimensional Hubbard model with long-range electron hopping, *Physica C: Superconductivity and its Applications* 602 (2022) 1354141 [IF/MedIF(2021)=1.534/3.097=0.495] (4 pages).

[2] P. FARKAŠOVSKÝ, Ferromagnetism in the Three-dimensional Hubbard Model with Generalized Type of Electron Hopping, *Journal of Superconductivity and Novel Magnetism* 35 (2022) 2391-2395 [IF/MedIF(2021)=1.675/3.097=0.541] (5 pages).

[3] P. FARKAŠOVSKÝ and L. REGECIOVÁ, Ground state and thermodynamic properties of the coupled double-Ising model: application to rare-earth tetraborides, *Journal of Physics – Condensed Matter* 34 (2022) 435802 [IF/MedIF(2021)=2.745/3.097=0.886] (11 pages).

[4] L. REGECIOVÁ and P. FARKAŠOVSKÝ, Ground states and thermodynamics of the spin-electron model with mixed spins: Application to rare-earth tetraborides, *Physica E – Low-Dimensional systems and nanostructures* 143 (2022) 115396 [IF/MedIF(2021)=3.369/3.097=1.088] (6 pages).

[5] L. REGECIOVÁ and P. FARKAŠOVSKÝ, The influence of double-exchange and Heisenberg interaction on magnetization processes in rare-earth tetraborides, *Journal of Magnetism and Magnetic Materials* 546 (2022) 168780 [IF/MedIF(2021)=3.097/3.097=1] (4 pages).

5.) Iónové kvapaliny a hlboko eutektické zmesi ako modulátory stability a agregácie proteínov

Zodpovedný riešiteľ:	Diana Fedunová
Trvanie projektu:	1.1.2022 / 31.12.2025
Evidenčné číslo projektu:	VEGA 2/0164/22
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 4871 €

Dosiahnuté výsledky:

Študovali sme vplyv iónových kvapalín (IK) obsahujúcich imidazolový kation a anióny tvorené nabitými a nepolárnymi aminokyselinovými zvyškami na tvorbu amyloidných fibríl inzulínu. Pomocou metódy metódy viazania Tioflavínu T sme zistili, že kinetiku amyloidnej agregácie inzulínu je možné inhibovať alebo urýchliť v závislosti od polarít amino-kyselinového aniónu. V prítomnosti amino-kyselinových aniónov s prídavným nábojom (Lyz a Glu) ako aj slabo polárneho Gly dochádzalo ku skráteniu polčasu a lag-fázy kinetiky agregácie v porovnaní s podmienkami bez prítomnosti IK. Nepolárne anióny (Val, Leu) naopak predlžovali polčas a lag-fázu agregácie, pričom v prítomnosti Ile došlo k úplnej inhibícii tvorby fibríl v sledovanom časovom intervale. Vzniknuté fibrily boli vizualizované a morfológicky charakterizované pomocou AFM mikroskopie. Získané výsledky prispievajú k lepšiemu pochopeniu mechanizmov amyloidnej agregácie ako aj procesov zodpovedných za tvorbu morfológicky definovaných fibríl s potenciálom využitia v biotechnológii.

[1] FEDUNOVÁ, D. - GUNCHEVA, M. - VANÍK, V. - BEDNÁRIKOVÁ, Z. - GANČÁR, M. - GAŽOVÁ, Z. Modulation of insulin amyloid aggregation by amino acid-based ionic liquids: anion role. In 10th Slovak Biophysical Symposium, Máj 3-5, 2022, Smolenice : Book of Contributions., p. 114-115.

6.) Objasnenie počiatkových štádií amyloidnej agregácie proteínov - od mechanizmu k terapii (*Unraveling the early events of protein amyloid aggregation - from mechanism to therapy*)

Zodpovedný riešiteľ:	Zuzana Gažová
Trvanie projektu:	1.1.2021 / 31.12.2024
Evidenčné číslo projektu:	2/0176/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 12005 €

Dosiahnuté výsledky:

V rámci projektu sme sa zamerali na objasnenie mechanizmu tvorby fibríl globulárnych proteínov (alfa-laktalbumínu a lyzozýmu) v prítomnosti rôznych solí (1, 5) a iónových kvapalín (IL) (3, 6). V prípade alfa-laktalbumínu sme sledovali tvorbu amyloidných fibríl v prítomnosti chloridových solí kationov. Zistili sme, že koncentrácia solí, hydratačný obal kationov a ich veľkosť výrazne ovplyvňuje štruktúru natívneho proteínu, pričom tieto zmeny v štruktúre následne ovplyvnili aj kinetiku tvorby fibríl (1, 5). Ďalšia práca bola zameraná na štúdium vplyvu IL na báze 1-etyl-3-metylimidazolia s kozmotropným acetátom (EMIM-ac) a chaotropným tetrafluórborátom (EMIM-BF₄) na kinetiku agregácie a morfológie lyzozýmových amyloidných fibríl. V tejto práci sme využili atómovú silovú mikroskopiu (AFM) so štatistickou analýzou obrazu pre podrobnú morfológickú analýzu (2). Zistili sme, že oba IL znižujú tepelnú stabilitu lyzozýmu a významne urýchľujú fibrilizáciu v závislosti od koncentrácie IL. Obe IL indukovali tvorbu amyloidných fibríl s typickou vláknitou morfológiou, pre EMIM-BF₄ bola identifikovaná vyššia morfológická variabilita fibríl, ktoré pozostávali z iného počtu prepletených protofilamentov (3, 6). Zároveň sme sa venovali aj sledovaniu inhibičného potenciálu rôznych typov malých molekúl na amyloidnú agregáciu proteínov. Zistili sme, že extrakty rôznych čínskych bylín a čaju majú výrazný inhibičný potenciál na tvorbu fibríl lyzozýmu a Abeta peptidu (4). Testovali sme aj aktivitu magnetických nanočastíc ako potenciálnych inhibítorov amyloidnej agregácie proteínov (7). Naše výsledky ukázali, že ich anti-amyloidný účinok závisí od ich štruktúry, veľkosti a typu proteínu.

[1] ANTOŠOVÁ, Andrea** – GANČÁR, Miroslav – BEDNÁRIKOVÁ, Zuzana – MAREK, Jozef – BYSTRENOVÁ, Eva – GAŽOVÁ, Zuzana**. The influence of cations on alpha-lactalbumin amyloid aggregation. In *Journal of Biological Inorganic Chemistry*, 2022, vol. 27, no. 7, p.679-689. (2021: 3.862 – IF, Q1 – JCR, 0.620 – SJR, Q1 – SJR, karentované – CCC).

[2] MAREK, Jozef**. Image histogram decomposition method for particle sizing - A numerical simulation study. In *Micron*, 2022, vol. 162, art. no. 103350. (2021: 2.381 - IF, Q3 - JCR, 0.499 - SJR, Q2 - SJR).

[3] FEDUNOVÁ, Diana** - ANTOŠOVÁ, Andrea - MAREK, Jozef - VANÍK, Vladimír - DEMJÉN, Erna - BEDNÁRIKOVÁ, Zuzana - GAŽOVÁ, Zuzana**. Effect of 1-Ethyl-3-methylimidazolium Tetrafluoroborate and Acetate Ionic Liquids on Stability and Amyloid Aggregation of Lysozyme. In *International Journal of Molecular Sciences*, 2022, vol. 23, no. 2, art. no. 783. (2021: 6.208 - IF, Q1 - JCR, 1.176 - SJR, Q1 - SJR, karentované - CCC).

[4] GANČÁR, Miroslav - KURIN, Elena - BEDNÁRIKOVÁ, Zuzana - MAREK, Jozef - MUČAJI, Pavel - NAGY, Milan - GAŽOVÁ, Zuzana. Influence of herbal extracts' constituents on the amyloid aggregation of proteins. In *10th Slovak Biophysical Symposium : Book of Contributions*. - Smolenice, Slovakia : Slovak Biophysical Society, 2022, p. 70. ISBN 978-80-973719-4-4.

[5] ANTOŠOVÁ, Andrea - GANČÁR, Miroslav - BYSTRENOVÁ, Eva - BEDNÁRIKOVÁ, Zuzana - GAŽOVÁ, Zuzana. Alpha-lactalbumin amyloid fibrillization in the presence of chloride salts cations. In 10th Slovak Biophysical Symposium: Book of Contributions. - Smolenice, Slovakia : Slovak Biophysical Society, 2022, p. 107. ISBN 978-80-973719-4-4.

[6] FEDUNOVÁ, Diana - GUNCHEVA, Maya - VANÍK, Vladimír - GANČÁR, Miroslav - GAŽOVÁ, Zuzana. Modulation of insulin amyloid aggregation by amino acid-based ionic liquids: anion role. In 10th Slovak Biophysical Symposium: Book of Contributions. - Smolenice, Slovakia: Slovak Biophysical Society, 2022, p. 114. ISBN 978-80-973719-4-4.

[7] PARMAR, Oľga - ANTOŠOVÁ, Andrea - GANČÁR, Miroslav - BEDNÁRIKOVÁ, Zuzana - BYSTRENOVÁ, Eva - KUBOVČÍKOVÁ, Martina - KONERACKÁ, Martina - ZÁVIŠOVÁ, Vlasta - GAŽOVÁ, Zuzana. Amino acid-coated magnetite nanoparticles as potential inhibitors of alpha-lactalbumin amyloid aggregation. In 10th Slovak Biophysical Symposium: Book of Contributions. - Smolenice, Slovakia: Slovak Biophysical Society, 2022, p. 116. ISBN 978-80-973719-4-4.

7.) Anomálne škálovanie v turbulentných systémoch s narušenou symetriou (*Anomalous scaling in turbulent systems with symmetry breaking*)

Zodpovedný riešiteľ: Marián Jurčišin
Trvanie projektu: 1.1.2021 / 31.12.2024
Evidenčné číslo projektu: VEGA 2/0081/21
Organizácia je áno
koordinátorom projektu:
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 2020 €

Dosiahnuté výsledky:

[1] E. Jurčišinová and M. Jurčišin, Phase diagram and thermodynamic properties of the frustrated ferro-antiferromagnetic spin system on the octahedral lattice, *Physica A* 603 (2022) 127731

[2] E. Jurčišinová and M. Jurčišin, Wasp-waisted hysteresis in magnetic materials with octahedral structure: A theoretical explanation based on exactly solvable model, *Physics Letters A* 443 (2022) 128225

[3] E. Jurčišinová and M. Jurčišin, Single-ion anisotropy as the source of anomalies in thermodynamic properties of magnetic spin-1/2 ? 1 mixed systems on square and simple cubic lattices, *Journal of Statistical Mechanics: Theory and Experiment* 11 (2022) 113204

[4] E. Jurčišinová and M. Jurčišin, Prediction of the existence of an intermediate phase in the antiferromagnetic J1-J2 system on the face-centered cubic lattice, *Europhysics Letters* 139 (2022) 26001

[5] E. Jurčišinová and M. Jurčišin, Influence of interaction-generated anisotropy on the antiferromagnetic spin system on the octahedral lattice, *Europhysics Letters* 140 (2022) 46002

[6] E. Jurčišinová and M. Jurčišin, General solution of spin-1 Ising model in the effective field theory approximation: critical temperatures and spontaneous magnetization, *Phase Transitions* 95 (2022) 1

8.) Štúdium termodynamických vlastností frustrovaných magnetických systémov exaktne riešiteľnými modelmi

Zodpovedný riešiteľ: Eva Jurčišinová
Trvanie projektu: 1.1.2019 / 31.12.2022
Evidenčné číslo projektu: 2/0058/19
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 1966 €

Dosiahnuté výsledky:

[1] E. Jurčišinová and M. Jurčišin, Phase diagram and thermodynamic properties of the frustrated ferro-antiferromagnetic spin system on the octahedral lattice, *Physica A* 603 (2022) 127731

[2] E. Jurčišinová and M. Jurčišin, Wasp-waisted hysteresis in magnetic materials with octahedral structure: A theoretical explanation based on exactly solvable model, *Physics Letters A* 443 (2022) 128225

[3] E. Jurčišinová and M. Jurčišin, Single-ion anisotropy as the source of anomalies in thermodynamic properties of magnetic spin-1/2 ? 1 mixed systems on square and simple cubic lattices, *Journal of Statistical Mechanics: Theory and Experiment* 11 (2022) 113204

[4] E. Jurčišinová and M. Jurčišin, Prediction of the existence of an intermediate phase in the antiferromagnetic J1-J2 system on the face-centered cubic lattice, *Europhysics Letters* 139 (2022) 26001

[5] E. Jurčišinová and M. Jurčišin, Influence of interaction-generated anisotropy on the antiferromagnetic spin system on the octahedral lattice, *Europhysics Letters* 140 (2022) 46002

[6] E. Jurčišinová and M. Jurčišin, General solution of spin-1 Ising model in the effective field theory approximation: critical temperatures and spontaneous magnetization, *Phase Transitions* 95 (2022) 1

9.) Štúdium netriviálnej supravodivosti vybraných materiálov. (*Research of non-trivial superconductivity on selected materials.*)

Zodpovedný riešiteľ: Jozef Kačmarčík
Trvanie projektu: 1.1.2020 / 31.12.2023
Evidenčné číslo projektu: 2/0058/20
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 12051 €

Dosiahnuté výsledky:

[1] GAMAYUNOVA, N.V. – KUZMIAK, Marek – SZABÓ, Pavol – SAMUELY, Peter – NAIDYUK, Yu.G.**. Superconductivity in hole-doped germanium point contacts. *Low Temperature Physics*, 2022, vol. 48, no. 2, art. no. 136.

[2] KUZMIAK, Marek – KOPČÍK, Michal – KOŠUTH, Filip – VAŇO, Viliam – SZABÓ, Pavol – LATYSHEV, Vitalii – KOMANICKÝ, Vladimír – SAMUELY, Peter**. Suppressed Superconductivity in Ultrathin Mo₂N Films due to Pair-Breaking at the Interface. Journal of Superconductivity and Novel Magnetism, 2022, vol. 35, no. 7, p. 1775-1780.

[3] M. Kuzmiak: Experimental study of the vortex lattice in strong disordered ultrathin 3 nm Mo₂N film, 2022. SCYR 2022 : 22st Scientific Conference of Young Researchers. - Košice (Slovensko) : TUKE s. 159-161 [online]. – ISBN 978-80-553-4061-6.

10.) Funkcionalizácia magnetických nanočastíc na detekciu rakovinových buniek (*Functionalization of magnetic nanoparticles for cancer cell detection*)

Zodpovedný riešiteľ: Martina Koneracká
Trvanie projektu: 1.1.2019 / 31.12.2022
Evidenčné číslo projektu: 2/0033/19
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 15314 €

Dosiahnuté výsledky:

V rámci spolupráce so zahraničným pracoviskom Institute of Nuclear Sciences "Vinca", University of Belgrade, Belehrad, Srbsko sme náš výskum v rámci projektu rozšírili o prípravu novej série MNPs značených rádionuklidmi, ktorá predstavuje podstatný prínos pre výskum duálnej terapie, ktorá zahŕňa simultánny účinok rádiofarmák a magnetickej hypertermie pri liečbe nádorových ochorení. Kľúčovou úlohou v práci [1] bola príprava, optimalizácia a charakterizácia MNPs funkcionalizovaných prolínom, tryptofánom a poly-L-lyzínom s cieľom študovať ich schopnosť účinne viazať rádionuklidy a zároveň generovať teplo pri aplikácii striedavého magnetického poľa pre ich možnú aplikáciu v rádiodiagnostike, rádioterapii a magnetickej hypertermii. Na týchto vzorkách bolo prevedené rádioaktívne značenie viacerými metódami a bola porovnaná účinnosť naviazania, stabilita a rádiochemická čistota. Najlepší výsledok bol dosiahnutý na vzorke pozostávajúcej z poly-L-lyzínom funkcionalizovaných MNPs s konjugovaným radionuklidom ¹⁷⁷Lu. Vzorka mala nielen najvyššiu rádiochemickú čistotu 99 %, ale vykazovala aj vysokú in vitro a in vivo stabilitu. Navyše vzorka mala aj najvyšší SAR koeficient [1].

[1] MIRKOVIČ, Marija** - MILANOVIČ, Zorana - PERIČ, Marko - VRAJNEŠ-DURIČ, Sanja - OGNJANOVIČ, Miloš - ANTIČ, Bratislav - KURAICA, Milorad - KRSTIČ, Ivan - KUBOVČÍKOVÁ, Martina - ANTAL, Iryna - SOBOTOVÁ, Radka - ZÁVIŠOVÁ, Vlasta - JURÍKOVÁ, Alena - FABIÁN, Martin - KONERACKÁ, Martina. Design and preparation of proline, tryptophan and poly-L-lysine functionalized magnetic nanoparticles and their radiolabeling with ¹³¹I and ¹⁷⁷Lu for potential theranostic use. In International Journal of Pharmaceutics, 2022, vol. 628, art. no. 122288.

11.) Magnetizačné procesy kompozitov s magnetickými časticami s modifikovaným povrchom

Zodpovedný riešiteľ: Jozef Kováč
Trvanie projektu: 1.1.2020 / 31.12.2023
Evidenčné číslo projektu: 1/0143/20
Organizácia je nie

koordinátorom projektu:

Koordinátor: Prírodovedecká fakulta UPJŠ
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 670 €

Dosiahnuté výsledky:

L. Novák, J. Kováč, Influence of mechanical stress on magnetization processes in amorphous FINEMET alloy, Journal of Alloys and Compounds 909 (2022) 164846

12.) Interdisciplinárne aplikácie pozorovania a výskumu kozmického žiarenia na pracovisku ÚEF SAV na Lomnickom štíte (*Interdisciplinary applications of cosmic rays observation and research in the laboratory of Institute of Experimental Physics of SAS at the Lomnický stit observatory*)

Zodpovedný riešiteľ: Ján Kubančák
Trvanie projektu: 1.1.2022 / 31.12.2024
Evidenčné číslo projektu: VEGA 2/0029/22
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 5085 €

Dosiahnuté výsledky:

V rámci projektu VEGA sa vedúci projektu podieľal na organizácii Česko - Slovenskej konferencie XLIII. Dni radiačnej ochrany 2022, ktorá sa konala v kongresovom centre SAV Academia v Starej Lesnej a bol aj editorom knihy abstraktov z tejto konferencie (ISBN: 978 - 80 - 89702 - 98 - 5, vydala Slovenská zdravotnícka univerzita, Limbova 12, Bratislava v roku 2022).

Ďalej bol v rámci projektu vedúci projektu reviewerom špeciálneho čísla Radiation Protection and Dosimetry, Volume 198, Issue 9-11, ISSN 0144-8420, EISSN 1742-3406, vydalo vydavateľstvo Oxford University Press v roku 2022.

13.) Funkčné magnetické materiály s perovskitovou štruktúrou na báze oxidov vzácnych zemín a prechodných kovov (*Functional magnetic materials with perovskite structure based on rare earth and transition metal oxides*)

Zodpovedný riešiteľ: Marián Mihalik
Trvanie projektu: 1.1.2022 / 31.12.2024
Evidenčné číslo projektu: VEGA 2/0011/22
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 7991 €

Dosiahnuté výsledky:

Neutrónová prášková difrakcia odhalila, že DyFeO₃ je prvý ortoferit, ktorý má nesúmerateľné magnetické usporiadanie podmriežky vzácnej zeminy, čo je dôležitá informácia zanedbaná v diskusii

o jeho multiferroických vlastnostiach. Magnetokryštalická anizotropia $TbMn_{0.98}Fe_{0.02}O_3$ monokryštálu je obrovská a dopovanie železom posúva magnetické prechody k nižším teplotám. Proces otočenia znamienka magnetizácie je prirodzenou vlastnosťou monokryštálu $NdMn_{0.8}Fe_{0.2}O_3$. Tento jav je veľmi anizotropný. Model dvoch Nd a Mn vzájomne prenikajúcich sa magnetických podmriežok opisuje otočenie znamienka magnetizácie lepšie ako klastrový model. Experimentálna štúdia magnetokalorického javu nanočastíc $La_{0.70}Ag_{0.25}MnO_3$ s rôznym obsahom kyslíka odhalila, že adiabatická zmena teploty, zmena magnetickej entropie a relatívna chladiaca sila sú maximálne pre vzorku s najnižším obsahom kyslíka a klesajú so zvyšujúcim sa obsahom kyslíka. RITTER, Clemens et al., *J.Phys: Cond. Matter*, 2022, vol. 34, 265801.
MIHALIK, Marián et al., *JMMM*, 2022, vol. 549, 168986.
MIHÁLIK, Matúš et al., *JMMM*, 2022, vol. 541, 168531.
ZENTKOVÁ, Mária et al., *JMMM*, 2022, vol. 549, 169002.

14.) Nový pohľad na vplyv hydrofóbných interakcií na tvorbu a stabilitu proteínových agregátov. Prepojenie na oxidačný stres. (New Insight into the Role of Hydrophobic Interactions in Formation and Stability of Proteins Aggregates. Link to Oxidative Stress.)

Zodpovedný riešiteľ: Andrey Musatov
Trvanie projektu: 1.1.2021 / 31.12.2023
Evidenčné číslo projektu: 2/0094/21
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 5360 €

Dosiahnuté výsledky:

Oxidačný stres, vznikajúci v dôsledku porušenia rovnováhy medzi prooxidačnými a antioxidačnými reakciami v živých organizmoch, je jedným z možných mechanizmov, ktorý zvyšuje poškodenie kľúčových bunkových zložiek, proteínov, DNA, ale aj bunkových membrán je oxidačný stres. V rámci riešenia úloh projektu sme našu pozornosť sústredili na nanočastice CeO_2 , ktoré vďaka nízkemu redox potenciálu disponujú pseudoenzymatickou antioxidačnou aktivitou a teda, dokážu efektívne ovplyvňovať oxidačný stres. Venovali sme sa detailnému štúdiu vplyvu podmienok syntézy nanočastíc CeO_2 NPs na ich fyzikálno-chemické vlastnosti a bioaktivitu. Ukázali sme, že úpravou reakčných podmienok počas syntézy je možno kontrolovať výsledné fyzikálno-chemické vlastnosti vytvorených nanočastíc. Pozorovaná bola korelácia medzi veľkosťou a percentuálnym podielom Ce^{3+} iónov na povrchu vytvorených nanočastíc [1,2]. Detailným štúdiom sme zistili, že veľkosť častíc a ich redox vlastnosti významne vplyvajú aj na ich anti-amyloidnú a anti-oxidačnú aktivitu. Význam a dôležitosť výberu experimentálnych podmienok určujúcich výsledne fyzikálno-chemické vlastnosti sme potvrdili aj pri syntéze CeO_2 nanočastíc vo vodno-alkoholovom prostredí s kontrolovaným pH (≈ 9) [2]. Inhibičný, anti-amyloidný efekt bol pozorovaný aj v prítomnosti fullerénu C_{60} . Pomocou in silico metód a experimentálnych údajov sme ukázali ako prítomnosť C_{60} ovplyvňuje štruktúru a stabilitu natívneho proteínu a následne aj amyloidnú agregáciu [3]. Je dôležité poznamenať, že modifikácia bio-makromolekúl vyvolaná oxidačným stresom významne ovplyvňuje ich špecifické interakcie s prirodzenými väzobnými partnermi, ako sú „proteín-proteín“ alebo „proteín-fosfolipid“ interakcie. Dôležité postavenie má práve cholesterol, ktorý má kľúčovú úlohu v štruktúrálnej a funkčnej integrite bunkových membrán; a interakcia cholesterolu s proteínmi vrátane amyloidogénnych, môže zmeniť ich stabilitu a funkciu. Ukázali sme, že v závislosti od pomeru koncentrácie proteín:chobimalt, pozorujeme značné ovplyvnený časový priebeh formovania amyloidných vlákien, ale aj ich výslednú morfológiu [4].

[1] Siposova, K.; Huntosova, V.; Garcarova, I.; Shlapa, Yu.; Timashkov, I.; Belous, A.; Musatov, A. Dual-Functional Antioxidant and Anti-amyloid Cerium Oxide Nanoparticles Fabricated by Controlled Synthesis in Water-Alcohol Solutions. *Biomedicines*. 2022, 10, 942

[2] Shlapa, Yu.; Solopan, S.; Sarnatskaya, V.; Siposova, K.; Garcarova, I.; Veltruska, K.; Timashkov, I.; Lykhova, O.; Kolesnik, D.; Musatov, A.; Nikolaev, V.; Belous, A. Cerium Dioxide Nanoparticles Synthesized via Precipitation at Constant pH: Synthesis, Physical-Chemical and Antioxidant Properties. *Colloids and Surfaces B: Biointerface* 2022, 112960

[3] Lee, O.-S.; Petrenko, V.I.; Siposova, K.; Musatov, A.; Park, H.; Lanceros-Méndez, S. How fullerenes inhibit the amyloid fibril formation of hen lysozyme. *J. Ind. Eng. Chem.* 2022, 106, 168–176

[4] Siposova, K.; Petrenko, V.I.; Garcarova, I.; Sedlakova, D.; Almasy, L.; Kyzyma, O.A.; Kriechbaum, M.; Musatov, A. The intriguing dose-dependent effect of selected amphiphilic compounds on insulin amyloid aggregation: Focus on a cholesterol-based detergent, Chobimalt. *Front. Mol. Biosci.* 2022, 9, 955282

15.) Produkcia ťažkých kvarkov ako sonda kvantovej chromodynamiky (*Heavy quark production as a probe of Quantum Chromodynamics*)

Zodpovedný riešiteľ: Ján Nemčík
Trvanie projektu: 1.1.2022 / 31.12.2025
Evidenčné číslo projektu: VEGA 2/0020/22
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 1105 €

Dosiahnuté výsledky:

[1] B.Z. Kopeliovich, M. Krelina, J. Nemchik and I.K. Potashnikova, Coherent photoproduction of heavy quarkonia on nuclei, *Phys. Rev. D*105, no.5, 054023 (2022), doi:10.1103/PhysRevD.105.054023, [arXiv:2201.13021 [hep-ph]].

[2] M. Krelina and J. Nemchik, Momentum transfer dependence of heavy quarkonium electroproduction, *SciPost Phys. Proc.* 8, 114 (2022), doi:10.21468/SciPostPhysProc.8.114 [arXiv:2107.13815 [hep-ph]].

16.) Aplikácia matematickej fyziky v rôzne škálovateľných systémoch

Zodpovedný riešiteľ: Richard Pinčák
Trvanie projektu: 1.1.2019 / 31.12.2022
Evidenčné číslo projektu: 2/0009/19
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 3391 €

Dosiahnuté výsledky:

17.) Magnetická frustrácia a supravodivosť v 2D a 3D boridoch (*Magnetic frustration and superconductivity in 2D and 3D borides*)

Zodpovedný riešiteľ: Gabriel Pristáš
Trvanie projektu: 1.1.2020 / 31.12.2023
Evidenčné číslo projektu: 2/0032/20
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 10614 €

Dosiahnuté výsledky:

Tepelná kapacita karbidu bóru pri nízkych teplotách vykazuje charakteristické odchýlky od klasického Debyovho modelu. Uskutočnili sme preto merania tepelnej kapacity karbidov bóru s rôznym obsahom uhlíka. Výsledky sú prezentované v článku:

H. Werheit, B. Herstell, W. Winkelbauer, G. Pristáš, S. Gabáni, K. Flachbart, S. Shalamberidze: Electrical conductivity of boron carbide from ~5 to ~2100 K in the whole homogeneity range, *Solid State Sciences* 132, 106987 (2022), <https://doi.org/10.1016/j.solidstatesciences.2022.106987>

18.) Štruktúra a dynamika magnetických kvapalín v elektrickom poli

Zodpovedný riešiteľ: Michal Rajňák
Trvanie projektu: 1.1.2020 / 31.12.2023
Evidenčné číslo projektu: 2/0011/20
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 9581 €

Dosiahnuté výsledky:

Riešenie tohto projektu v r. 2022 bolo prevažne zamerané na experimentálny výskum preskokových napätí a čiastkových výbojov v magnetických kvapalinách na báze gas-to-liquid oleja a na báze prírodných a syntetických esterov. Štatistickou analýzou experimentálnych výsledkov boli získané podklady pre teoretické vysvetlenie mechanizmu a dynamiky elektrického preskoku v nanokvapalinách pod vplyvom striedavého napätia. Získané výsledky boli publikované v nasledujúcich publikáciách.

[1]M. Rajňák, J. Kurimský, K. Paulovičová, M. Franko, B. Dolník, R. Cimbala, M. Timko, P. Kopčanský, V. Girman, M. Lisnichuk, Dielectric and thermal performance of a C60-based nanofluid and a C60-loaded ferrofluid, *Phys. Fluids*. 34 (2022) 107106. <https://doi.org/10.1063/5.0117899>.

[2]M. Rajňák, M. Franko, K. Paulovičová, M. Karpets, K. Parekh, R. Upadhyay, J. Kurimský, B. Dolník, R. Cimbala, P. Havran, M. Timko, P. Kopčanský, Effect of ferrofluid magnetization on transformer temperature rise, *J. Phys. D. Appl. Phys.* 55 (2022) 345002. <https://doi.org/10.1088/1361-6463/AC7425>.

[3]M. Karpets, M. Rajnak, V. Petrenko, I. Gapon, M. Avdeev, L. Bulavin, M. Timko, P. Kopcanský, Electric field-induced assembly of magnetic nanoparticles from dielectric ferrofluids on planar interface, J. Mol. Liq. 362 (2022) 119773. <https://doi.org/10.1016/J.MOLLIQ.2022.119773>.

[4]M. Šárpataky, J. Kurimský, M. Rajňák, K. Paulovičová, M. Krbal, L. Pelikán, Synthetic and natural ester-based nanofluids with fullerene and magnetite nanoparticles – An experimental AC breakdown voltage study, J. Mol. Liq. 368 (2022) 120802. <https://doi.org/10.1016/J.MOLLIQ.2022.120802>.

[5]R. Cimbala, P. Havran, J. Király, M. Rajňák, J. Kurimský, M. Šárpataky, B. Dolník, K. Paulovičová, Dielectric response of a hybrid nanofluid containing fullerene C60 and iron oxide nanoparticles, J. Mol. Liq. 359 (2022) 119338. <https://doi.org/10.1016/J.MOLLIQ.2022.119338>.

[6]P. Gębara, M. Hasiak, J. Kovac, M. Rajnak, Entalpy of Mixing, Microstructure, Structural, Thermomagnetic and Mechanical Properties of Binary Gd-Pb Alloys, Mater. 2022, Vol. 15, Page 7213. 15 (2022) 7213. <https://doi.org/10.3390/MA15207213>.

[7]P. Havran, R. Cimbala, J. Király, M. Rajňák, S. Bucko, J. Kurimský, B. Dolník, Frequency-Dependent Dielectric Spectroscopy of Insulating Nanofluids Based on GTL Oil during Accelerated Thermal Aging, Process. 2022, Vol. 10, Page 2405. 10 (2022) 2405. <https://doi.org/10.3390/PR10112405>.

19.) Samousporiadanie polymérnych a nepolymérnych materiálov v kvapalnom stave na mezoškálach

Zodpovedný riešiteľ:	Marián Sedlák
Trvanie projektu:	1.1.2020 / 31.12.2022
Evidenčné číslo projektu:	2/0115/20
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 5743 €

Dosiahnuté výsledky:

V roku 2022 dominovali patentové aktivity. Bol nám udelený patent Úradom priemyselného vlastníctva SR týkajúci sa spôsobu čistenia organických vodorozpustných látok od hydrofóbných kontaminantov [1]. Metóda je založená na tom, že sa kontaminanty (malé molekuly hydrofóbných nízkomolekulárnych látok) odstraňujú na princípe nanosegregácie v ternárnej zmesi bez nutnosti pridania stabilizátorov ktoré by predstavovali sekundárnu kontamináciu a následnej nanofiltrácie využívajúcej vlastnosti segregovaných nanočastíc a nanokvapiiek (mechanická pevnosť a tvarová i časová stabilita). Ďalej sme v priebehu roku 2022 podali prihlášku na Európsky patentový úrad týkajúcu sa problematiky využitia javov nanosegregácie na purifikáciu vodorozpustných polymérov do vysokých stupňov čistoty [2]. Zameranie bolo na hydrofóbné kontaminanty. Táto problematika je aplikácie zaujímavá z toho hľadiska, že vodorozpustné polyméry sa štandardne prečisťujú metódami ako je dialýza a rôzne varianty ultrafiltrácie, predovšetkým filtrácia na báze tangenciálneho toku. Vo všetkých týchto prípadoch sa kontaminanty (malé molekuly nízkomolekulárnych látok) odstraňujú na princípe prechodu cez membránu s pórmí dostatočne veľkými na prechod kontaminantov a dostatočne malými na to aby zabránili prechodu polymérov. V každom prípade, kontaminanty musia byť vodorozpustné aby bolo možné ich týmto spôsobom odstrániť. Hydrofóbné kontaminanty sú teda problémom, obzvlášť keď ide o čistenie do vysokých stupňov čistoty pre náročnejšie aplikácie,

predovšetkým biomedicínske.

[1] M. Sedlák, D. Rak: Spôsob čistenia organických vodorozpustných látok od hydrofóbných kontaminantov, ÚPV SR, patent č. 288949. Udelený 11.3. 2022. Dátum vydania patentovej listiny 4.5.2022. Dátum sprístupnenia patentu verejnosti 11.5.2022.

[2] M. Sedlák, D. Rak: A Method for Purification of Organic Water-Soluble Polymers from Hydrophobic Contaminants. European Patent Office, application number EP22154112.1, submitted 28.1.2022

20.) Isingove supravodiče a topologické fázy hmoty (*Ising superconductors and topological phases of the matter*)

Zodpovedný riešiteľ: Pavol Szabó
Trvanie projektu: 1.1.2019 / 31.12.2022
Evidenčné číslo projektu: VEGA 1/0743/19
Organizácia je koordinátorom projektu: nie
Koordinátor: PF UPJŠ, Košice
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 1564 €

Dosiahnuté výsledky:

Výsledky, dosiahnuté pri riešení projektu boli publikované v prácach:

[1] M. Kuzmiak, M. Kopčík, F. Košuth, V. Vaňo, P. Szabó, V. Latyshev, V. Komanický & P. Samuely, Suppressed Superconductivity in Ultrathin Mo₂N Films due to Pair-Breaking at the Interface, J. Supercond. Nov. Magn. 35, 1775–1780 (2022) <https://doi.org/10.1007/s10948-022-06197-6>

[2] N. V. Gamayunova, M. Kuzmiak, P. Szabó, P. Samuely, and Yu. G. Naidyuk, Superconductivity in hole-doped germanium point contacts, Low Temperature Physics 48, 136 (2022); <https://doi.org/10.1063/10.0009293>

21.) Štúdium a modifikácia vlastností pavúčieho proteínu nadprodukovaného v *Escherichia coli*

Zodpovedný riešiteľ: Katarína Šipošová
Trvanie projektu: 1.1.2022 / 31.12.2025
Evidenčné číslo projektu: VEGA 2/0034/22
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 6364 €

Dosiahnuté výsledky:

V rámci projektu sa plánujeme zamerať na dva hlavné ciele: 1) stanoviť a zaviesť kontrolovateľné samo-usporiadanie pavúčieho proteínu prístupom „zdola nahor“; a 2) príprava nanokompozitov na báze amyloidných štruktúr pavúčieho proteínu pre biomedicínske a biotechnologické aplikácie.

Venovali sme detailnému štúdiu experimentálnych podmienok, ktoré vedú k tvorbe amyloidných štruktúr (fibríl) rekombinantného pavúčieho proteínu. Študovali sme vplyv pH, ale aj teploty a prítomnosti rôznych solí na kinetiku samozbalovania proteínu eADF4(C16) a výslednú morfológiu vytvorených štruktúr. Získané výsledky nám umožnili nastaviť experimentálne podmienky vedúce ku kontrolovateľnej a reprodukovateľnej tvorbe amyloidných fibrilárných vlákien rekombinantného pavúčieho proteínu. Za účelom prípravy nanokompozitov sme testovali bioaktivitu CeO₂ nanočastíc, ktoré vďaka nízkemu redox potenciálu disponujú pseudoenzymatickou aktivitou a majú schopnosť ovplyvniť aj procesy formovania amyloidných vlákien. Zistili sme, že ich bioaktivita reprezentovaná anti-amyloidnou a anti-oxidačnou aktivitou koreluje s fyzikálno-chemickými vlastnosťami (veľkosť a obsah Ce³⁺ iónov na povrchu), ktoré je možné riadiť vhodne upravenými podmienkami syntézy [1,2]. Schopnosť riadiť procesy amyloidnej agregácie bola pozorovaná aj pre cholesterol obsahujúci detergent chobimalt [3].

[1] Siposova, K.; Huntosova, V.; Garcarova, I.; Shlapa, Yu.; Timashkov, I.; Belous, A.; Musatov, A. Dual-Functional Antioxidant and Anti-amyloid Cerium Oxide Nanoparticles Fabricated by Controlled Synthesis in Water-Alcohol Solutions. *Biomedicines*. 2022, 10, 942

[2] Shlapa, Yu.; Solopan, S.; Sarnatskaya, V.; Siposova, K.; Garcarova, I.; Veltruska, K.; Timashkov, I.; Lykhova, O.; Kolesnik, D.; Musatov, A.; Nikolaev, V.; Belous, A. Cerium Dioxide Nanoparticles Synthesized via Precipitation at Constant pH: Synthesis, Physical-Chemical and Antioxidant Properties. *Colloids and Surfaces B: Biointerface* 2022, 112960

[3] Siposova, K.; Petrenko, V.I.; Garcarova, I.; Sedlakova, D.; Almasy, L.; Kyzyma, O.A.; Kriechbaum, M.; Musatov, A. The intriguing dose-dependent effect of selected amphiphilic compounds on insulin amyloid aggregation: Focus on a cholesterol-based detergent, Chobimalt. *Front. Mol. Biosci.* 2022, 9, 955282

22.) Rýchlochladené kovové zliatiny a kompozity pre magnetické a magnetokalorické aplikácie (*Rapidly quenched metallic alloys and composites for magnetic and magnetocaloric applications*)

Zodpovedný riešiteľ: Ivan Škorvánek
Trvanie projektu: 1.1.2019 / 31.12.2022
Evidenčné číslo projektu: 2/0171/19
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 9989 €

Dosiahnuté výsledky:

Na prípravu binárnych Fe-B a ternárnych Fe-Co-B magneticky mäkkých zliatin s vysokými hodnotami nasýtenej magnetickej indukcie sme použili nekonvenčnú techniku ultra-rýchleho tepelného spracovania využívajúcu vloženie tenkých kovových vzoriek medzi masívne medené bloky predhriate na požadovanú žihaciu teplotu. Táto žihacia metóda predstavuje významný pokrok pri príprave nanokryštalických magneticky mäkkých zliatin. Extrémne rýchle ohriatie vzorky umožnilo vytvorenie dostatočne jemnej nanokryštalickej štruktúry i pre zloženia zliatin s výrazne redukovaným obsahom sklotvorných nemagnetických prvkov čo viedlo k nárastu nasýtenej magnetickej indukcie na hodnoty 1.9 - 2 T. Naše experimenty ukázali že tieto zliatiny vykazujú veľmi dobrú teplotnú stabilitu magneticky mäkkých charakteristík v intervale teplôt 30 – 250°C. To z nich robí sľubných kandidátov pre vybrané technické aplikácie, v ktorých sú magneticky mäkké materiály vystavené zvýšeným pracovným teplotám.

V rýchlochladených kovových zliatinách typu FINEMET bol sledovaný vplyv mechanického namáhania na magnetizačné procesy. Pre túto štúdiu boli vybrané amorfné kovové pásy s nominálnym zložením Fe_{73.5}Cu₁Nb₃Si_{13.5}B₉. Pri rôznych stupňoch mechanického namáhania boli pozorované významné rozdiely v magnetických vlastnostiach amorfných pásovk. Pôvod týchto efektov bol interpretovaný zmenou parametrov domémových stien (hrúbka, energia na jednotku plochy) ako i vnútorných napätí, ktoré sú prekážkami ich pohybu v procese premagnetovania. Teoretická FORC analýza bola použitá pri štúdiu magnetických vlastností súboru Ni-Fe-Ga nanodrôtov, vykazujúcich efekty magnetickej tvarovej pamäte. Získané výsledky poukázali na existenciu magnetostatickej väzby medzi susednými nanodrôtmami, ktorá významným spôsobom ovplyvňuje magnetické charakteristiky tohto silne interagujúceho systému feromagnetických nanodrôtov.

[1] B. Kunca B., Marcin J., Parsons R., Švec P., Švec P. sr., Suzuki K., Škorvánek I.: Soft magnetic performance of ultra-rapidly annealed high-Bs Fe-(Co)-B nanocrystalline alloys at elevated temperatures, *Journal of Alloys and Compounds*, 2022, 911, 165033

[2] Novák, L., Kováč J., Influence of mechanical stress on magnetization processes in amorphous FINEMET alloy, *Journal of Alloys and Compounds*, 2022, 909, 164846

[3] Lindner N., Sniadecki Z., Kołodziej M., Greneche Jean-Marc, Marcin J., Škorvánek I., Bogdan Idzikowski, Tunable magnetocaloric effect in amorphous Gd-Fe-Co-Al-Si alloys, *Journal of Materials Science*, 2022, 57, pp. 553–562

[4] Varga M., Galdun L., Kunca B., Vega V., García JU., Prida V.M., Barriga-Castro E.D., Luna C., Diko P., Saksl K., Varga R., FORC and TFORC analysis of electrodeposited magnetic shape memory nanowires array, *Journal of Alloys and Compounds*, 2022, 897, 163211

23.) Procesy samousporiadania v mäkkých hybridných zmesiach kvapalných kryštálov a nanočastíc (*Self-organization processes in soft hybrid mixtures of liquid crystals and nanoparticles*)

Zodpovedný riešiteľ: Natália Tomašovičová
Trvanie projektu: 1.1.2021 / 31.12.2024
Evidenčné číslo projektu: 2/0043/21
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 17320 €

Dosiahnuté výsledky:

Hlavným cieľom bolo preštudovať vplyv dopovania magnetickými nanočasticami na dielektrické a magneto-optické vlastnosti kvapalných kryštálov.

[1] Kovalchuk, O.V., Kovalchuk, T.M., Tomašovičová, N., Timko, M., Zakutanska, K., Miakota, D., Kopčanský, P., Shevchuk, O.F., Garbovskiy, Y.; Dielectric and electrical properties of nematic liquid crystals 6CB doped with iron oxide nanoparticles. The combined effect of nanodopant concentration and cell thickness, (2022), *Journal of Molecular Liquids*, 366, art. no. 120305, DOI: 10.1016/j.molliq.2022.120305

[2] Bury, P., Veveričík, M., Černobila, F., Tomašovičová, N., Zakuťanská, K., Kopčanský, P., Timko, M., Jarošová, M.; Role of Magnetic Nanoparticles Size and Concentration on Structural

Changes and Corresponding Magneto-Optical Behavior of Nematic Liquid Crystals, (2022), Nanomaterials, 12 (14), art. no. 2463, DOI: 10.3390/nano12142463

[3] Skumiel, A., Kopcansky, P., Timko, M., Molcan, M., Paulovicova, K., Wojciechowski, R.; The influence of a rotating magnetic field on the thermal effect in magnetic fluid, (2022) International Journal of Thermal Sciences, 171, art. no. 107258., DOI: 10.1016/j.ijthermalsci.2021.107258

[4] Ayriyan, A., Ayryan, E.A., Egorov, A.A., Timko, M., Kopčanský, P.; Properties of liquid-crystal wave-guiding structures, (2022), Soft Matter, 18, pp. 7441–7451, DOI: 10.1039/d2sm00597b

24.) Slzná tekutina a sliny v preventívnej, prediktívnej a personalizovanej medicíne (*Tear fluid and saliva in preventive, predictive and personalized medicine*)

Zodpovedný riešiteľ: Natália Tomašovičová
Trvanie projektu: 1.1.2020 / 31.12.2022
Evidenčné číslo projektu: 1/0333/20
Organizácia je koordinátorom projektu: nie
Koordinátor: Lekárska fakulta UPJŠ
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 3438 €

Dosiahnuté výsledky:

Slzná tekutina a sliny sú netradičné biologické odberové materiály. Odber je neinvazívny, čo je výhodou v porovnaní s odberom krvi ako štandardného biologického materiálu. Neobsahujú pigmenty, ktoré interferujú pri bežných spektrofotometrických analýzach, ale obsahujú vodu, elektrolyty, proteíny, lipidy, hormóny a ďalšie látky. Charakterizácia jej zloženia pri rôznych zápalových ochoreniach so zameraním na tvorbu amyloidov viacerými metódami predstavuje nový diagnostický prístup. Zloženie slznej tekutiny a slín u pacientov sa významne mení v porovnaní so zdravými jedincami. Existujú aj doposiaľ necharakterizované interindividuálne zmeny v zložení slznej tekutiny a slín, ktoré by mohli umožniť personálnu diagnostiku a aplikáciu liečby šitej na mieru.

25.) Analýza obrazových sekvencií metódami hlbokého učenia vo vybraných biofyzikálnych experimentoch

Zodpovedný riešiteľ: Zoltán Tomori
Trvanie projektu: 1.1.2022 / 31.12.2024
Evidenčné číslo projektu: VEGA 2/0101/22
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 3742 €

Dosiahnuté výsledky:

Vývoj softvéru na analýzu obrazu a spolupráca na publikáciách:

TADOKORO, Takahiro - BRAVO-HERNANDEZ, Mariana - KOBAYASHI, Y. - PLATOSHYN, Oleksandr - NAVARRO, M. - MARSALA, Silvia - MIYANOHARA, Atsushi - YOSHIKUNI,

Tetsuya - SHIGYO, Michiko - KROTOV, Volodymyr - JUHAS, Stefan - JUHASOVA, Jana - NGUYEN, Duong - KUPCOVÁ, Helena - MOTLIK, J. - STUDENOVSKÁ, Hana - PROKS, Vladimír - REDDY, Rajiv - DRISCOLL, Shawn P - GLENN, Thomas D - KEMTHONG, Taratorn - MALAIVIJITNOND, Suchinda - TOMORI, Zoltán - VANICKÝ, Ivo - KAKINOHANA, M. - PFAFF, Samuel L. - CIACCI, Joseph D. - BELAN, Pavel - MARŠALA, Martin**. Precision spinal gene delivery-induced functional switch in nociceptive neurons reverses neuropathic pain. In *Molecular Therapy*, 2022, vol. 30, no. 8, p. 2722-2745. (2021: 12.910 - IF, Q1 - JCR, 3.064 - SJR, Q1 - SJR). ISSN 1525-0016. Dostupné na: <https://doi.org/10.1016/j.ymthe.2022.04.023> Typ: ADCA

BÁNÓ, Gregor - MIŠKOVSKÝ, Pavol - ANTALÍK, Marián - TOMORI, Zoltán - ZEMÁNEK, Pavel - ŽOLDÁK, Gabriel. Dr. Ashkin: dlhá cesta optickej pinzety k Nobelovej cene. In *Československý časopis pro fyziku*, 2022, sv. 72, č. 2, s. 82-88. ISSN 0009-0700. Typ: ADEB

26.) Teoretické štúdium multifunkčných kvantových nízko-rozmerných magnetických materiálov

Zodpovedný riešiteľ:	Hana Vargová
Trvanie projektu:	1.1.2020 / 31.12.2023
Evidenčné číslo projektu:	1/0105/20
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Prírodovedecká fakulta UPJŠ
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 2011 €

Dosiahnuté výsledky:

1. Mooshammer, F.; Plankl, M.; Faria, P. E.; et al., Near-field nanoscopy of excitons and ultrafast interlayer dynamics in van der Waals crystals, *Proceedings of SPIE - The International Society for Optical Engineering*, 12009 (2022), 120090D.
2. Strečka, J., Verkholyak, T., Richter, J., (...), Derzhko, O., Schnack, J., Frustrated magnetism of spin-1/2 Heisenberg diamond and octahedral chains as a statistical mechanical monomer-dimer problem, *Physical Review B* 105 (2022), 064420.
3. Verkholyak, T., Strečka, J., Fractional magnetization plateaux of a spin-1/2 Heisenberg model on the Shastry-Sutherland lattice: Effect of quantum XY interdimer coupling, *SciPost Physics* 12 (2022), 056.
4. Vargová, H., Strečka, J., Influence of a further-neighbour interaction on a rotating magnetoelectric effect in a coupled spin-electron model on a doubly decorated square lattice, *Journal of Magnetism and Magnetic Materials* 544 (2022), 168691.
5. Vargová, H., Strečka, J., Tomašovičová, N., Effect of an uniaxial single-ion anisotropy on the quantum and thermal entanglement of a mixed spin-(1/2, S) Heisenberg dimer, *Journal of Magnetism and Magnetic Materials* 546 (2022), 168799.
6. Zollner, K., Gmitra, M., Fabian, J., Proximity spin-orbit and exchange coupling in ABA and ABC trilayer graphene van der Waals heterostructures, *Physical Review B* 105 (2022), 115126.
7. Vargová, H., Strečka, J., Conventional and inverse magnetocaloric and electrocaloric effects of a mixed spin-(1/2, 1) Heisenberg dimer, *European Physical Journal Plus* 137 (2022), 490.
8. Faria Junior, P.E., Zollner, K., Woźniak, T., (...), Gmitra, M., Fabian, J., First-principles insights into the spin-valley physics of strained transition metal dichalcogenides monolayers, *New Journal of Physics* 24 (2022), 083004.

Programy: APVV

27.) REBCO masívne supravodiče na báze Y, Gd, Sm a Eu pre praktické aplikácie

Zodpovedný riešiteľ: Pavel Diko
Trvanie projektu: 1.7.2022 / 30.6.2026
Evidenčné číslo projektu: APVV-21-0387
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 1 - Česko: 1
Čerpané financie: APVV: 24136 €

Dosiahnuté výsledky:

[1] Veronika Kuchárová, Pavel Diko, Daniela Volochová, Vitaliy Antal, Michal Lojka, Tomáš Hlasek, Vladimír Plecháček. Microstructure and superconducting properties of bulk EuBCO-Ag with and without holes, Journal of European Ceramic Society, Vol. 42, November 2022, Pages 6533-6541. Q1, IF was 5.302, SCOPUS 6,007

[2] Kuchárová Veronika, Pavel Diko, Michal Lojka, Tomáš Hlasek and Vladimír Plecháček, Microstructural analysis of EuBCO bulks with and without holes, METALLOGRAPHY & Fractography'22, 27. - 29. apríl 2022, Nový Smokovec, Vysoké Tatry, SR

28.) Vývoj REBCO supravodičov pre biomedicínske aplikácie (*Development of REBCO superconductors for biomedical applications*)

Zodpovedný riešiteľ: Pavel Diko
Trvanie projektu: 1.8.2018 / 30.6.2022
Evidenčné číslo projektu: BMREBCO
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 17954 €

Dosiahnuté výsledky:

[1] Monika Radušovská, Pavel Diko, Petra Hajdová, Daniela Volochová, Vitaliy Antal, Tomáš Hlasek, Vladimír Plecháček and Filip Antončík Bulk GdBCO-Ag superconductors with holes. Journal of American Ceramic Society, 2022. Q1, IF was 3.784, SCOPUS 3.832

[2] Yanhan Zhu, Katarína Zmorayová, Jinyu He, Yuxuan Zhang, Pavel Diko, Difan Zhou, Xin Yao, An in situ self-assembly strategy for exact-(110)-plane-controlled crystallization of high-performance YBa₂Cu₃O_{7- δ} single grains, Ceramics International, Vol. 48. 1 August 2022, Pages 22237-22246. Q1, IF 4.527 5.532

[3] Prihláška patentu PP50041-2022
M. Radušovská, V. Kuchárová, P. Hajdová, P. Diko,
Spôsob výroby masívneho monokryštalického
GdBCOAg supravodiča, 30 august 2022

29.) Frustrované kovové magnetické systémy (*Frustrated metallic magnetic systems*)

Zodpovedný riešiteľ: Slavomír Gabáni
Trvanie projektu: 1.8.2018 / 31.12.2022
Evidenčné číslo projektu: APVV-17-0020
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 2 - Slovensko: 2
Čerpané financie: APVV: 20244 €

Dosiahnuté výsledky:

Výsledky boli prezentované na konferenciách SCES (24.-29.7.2022, Amsterdam), LT29 (18.-24.8.2022, Sapporo), ISBB (5.-9.9.2022, Paris), KSF (5.-8.9. Košice) či EMP User meeting (18.-22.9.2022, Štrbské Pleso).

[1] A. Azarevich, V. Glushkov, S. Demishev, A. Bogach, V. Voronov, S. Gavrilkin, N. Shitsevalova, V. Filipov, S. Gabáni, J. Kačmarčík, K. Flachbart, N. Sluchanko: Evidence of symmetry lowering in antiferromagnetic metal TmB12 with dynamic charge stripes.

Journal of Physics Condensed Matter 34, 065602 (2022)

DOI: 10.1088/1361-648X/ac3536

[2] E. Jurčišinová, M. Jurčišin: Phase diagram and thermodynamic properties of the frustrated ferro-antiferromagnetic spin system on the octahedral lattice.

Physica A 603, 127731 (2022)

DOI: 10.1016/j.physa.2022.127731

[3] E. Jurčišinová, M. Jurčišin: Wasp-waisted hysteresis in magnetic materials with octahedral structure: A theoretical explanation based on exactly solvable model.

Physics Letters A 443, 128225 (2022)

DOI: 10.1016/j.physleta.2022.128225

[4] E. Jurčišinová, M. Jurčišin: Single-ion anisotropy as the source of anomalies in thermodynamic properties of magnetic spin-1/2 ? 1 mixed systems on square and simple cubic lattices.

Journal of Statistical Mechanics: Theory and Experiment 11, 113204 (2022)

DOI: 10.1088/1742-5468/ac9bf5

[5] E. Jurčišinová, M. Jurčišin: Prediction of the existence of an intermediate phase in the antiferromagnetic J1-J2 system on the face-centered cubic lattice.

Europhysics Letters 139, 26001 (2022)

DOI: 10.1209/0295-5075/ac36ef

[6] E. Jurčišinová, M. Jurčišin: Influence of interaction-generated anisotropy on the antiferromagnetic spin system on the octahedral lattice.

Europhysics Letters 140, 46002 (2022)

DOI: 10.1209/0295-5075/aca1d9

[7] E. Jurčišinová, M. Jurčišin: General solution of spin-1 Ising model in the effective field theory approximation: critical temperatures and spontaneous magnetization.

Phase Transitions 95, 1 (2022)

DOI: 10.1080/01411594.2021.1998495

[8] P. Farkašovský, L. Regeciová: Ground state and thermodynamic properties of the coupled double-Ising model: application to rare-earth tetraborides. *Journal of Physics: Condensed Matter* 34, 435802 (2022)
DOI: 10.1088/1361-648X/ac8bbf

[9] L. Regeciová, P. Farkašovský: Ground states and thermodynamics of the spin-electron model with mixed spins: Application to rare-earth tetraborides. *Physica E* 143, 115396 (2022)
DOI: 10.1016/j.physe.2022.115396

[10] L. Regeciová, P. Farkašovský: The influence of double-exchange and Heisenberg interaction on magnetization processes in rare-earth tetraborides. *Journal of Magnetism and Magnetic Materials* 546, 168780 (2022)
DOI: 10.1016/j.jmmm.2021.168780

30.) Inhibícia agregácie α -synukleínu pomocou LEA proteínov: nový prístup pre liečbu Parkinsonovej choroby (*Inhibition of α -Synuclein Aggregation by LEA Proteins: A New Approach for Parkinson's Disease Treatment*)

Zodpovedný riešiteľ: Zuzana Gažová
Trvanie projektu: 1.1.2022 / 31.1.2022
Evidenčné číslo projektu:
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 4000 €

Dosiahnuté výsledky:

31.) Multifunkčné inhibítory poly/peptidov spojených s Alzheimerovou chorobou (*Multi-target inhibitors of poly/peptides associated with Alzheimer's disease*)

Zodpovedný riešiteľ: Zuzana Gažová
Trvanie projektu: 1.7.2019 / 1.6.2023
Evidenčné číslo projektu: APVV-18-0284
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 33654 €

Dosiahnuté výsledky:

V rámci riešenia projektu sme využili poznatky a metodiky získané pri štúdiu amyloidnej agregácie Abeta proteínov pre štúdium fibrilizácie globulárnych proteínov v prítomnosti rôznych solí a iónových kvapalín (1, 2, 3, 5, 6, 9, 10). Zistili sme, že tvorba fibríl a ich výsledná morfológia závisí od typu katiónu, hydratačnej energie a veľkosti. Naďalej sme pokračovali v identifikácii nových potenciálnych anti-amyloidných inhibítorov. Zamerali sme sa na určenie, ktorý štruktúrny motív je nositeľom ich anti-amyloidných vlastností. Chceli sme overiť, či mechanizmus anti-amyloidného účinku identifikovaný pre Abeta peptidy sa uplatňuje aj pri ich pôsobení na globulárne proteíny ako

inzulín a lyzozým (4, 7, 8, 11, 12).

[1] ANTOŠOVÁ, Andrea – GANČÁR, Miroslav – BEDNÁRIKOVÁ, Zuzana – MAREK, Jozef – BYSTRENOVÁ, Eva – GAŽOVÁ, Zuzana. The influence of cations on alpha-lactalbumin amyloid aggregation. In *Journal of Biological Inorganic Chemistry*, 2022, vol. 27, no. 7, p.679-689.

[2] MAREK, Jozef**. Image histogram decomposition method for particle sizing - A numerical simulation study. In *Micron*, 2022, vol. 162, art. no. 103350.

[3] FEDUNOVÁ, Diana** - ANTOŠOVÁ, Andrea - MAREK, Jozef - VANÍK, Vladimír - DEMJÉN, Erna - BEDNÁRIKOVÁ, Zuzana - GAŽOVÁ, Zuzana**. Effect of 1-Ethyl-3-methylimidazolium Tetrafluoroborate and Acetate Ionic Liquids on Stability and Amyloid Aggregation of Lysozyme. In *International Journal of Molecular Sciences*, 2022, vol. 23, no. 2, art. no. 783.

[4] GANČÁR, Miroslav - KURIN, Elena - BEDNÁRIKOVÁ, Zuzana - MAREK, Jozef - MUČAJI, Pavel - NAGY, Milan - GAŽOVÁ, Zuzana. Influence of herbal extracts' constituents on the amyloid aggregation of proteins. In *10th Slovak Biophysical Symposium: Book of Contributions*. - Smolenice, Slovakia: Slovak Biophysical Society, 2022, p. 70. ISBN 978-80-973719-4-4.

[5] ANTOŠOVÁ, Andrea - GANČÁR, Miroslav - BYSTRENOVÁ, Eva - BEDNÁRIKOVÁ, Zuzana - GAŽOVÁ, Zuzana. Alpha-lactalbumin amyloid fibrillization in the presence of chloride salts cations. In *10th Slovak Biophysical Symposium: Book of Contributions*. - Smolenice, Slovakia: Slovak Biophysical Society, 2022, p. 107. ISBN 978-80-973719-4-4.

[6] FEDUNOVÁ, Diana - GUNCHEVA, Maya - VANÍK, Vladimír - GANČÁR, Miroslav - GAŽOVÁ, Zuzana. Modulation of insulin amyloid aggregation by amino acid-based ionic liquids: anion role. In *10th Slovak Biophysical Symposium: Book of Contributions*. - Smolenice, Slovakia: Slovak Biophysical Society, 2022, p. 114. ISBN 978-80-973719-4-4.

[7] PARMAR, Oľga - ANTOŠOVÁ, Andrea - GANČÁR, Miroslav - BEDNÁRIKOVÁ, Zuzana - BYSTRENOVÁ, Eva - KUBOVČÍKOVÁ, Martina - KONERACKÁ, Martina - ZÁVIŠOVÁ, Vlasta - GAŽOVÁ, Zuzana. Amino acid-coated magnetite nanoparticles as potential inhibitors of Alpha-lactalbumin amyloid aggregation. In *10th Slovak Biophysical Symposium: Book of Contributions*. - Smolenice, Slovakia: Slovak Biophysical Society, 2022, p. 116. ISBN 978-80-973719-4-4.

[8] BOROVSÁ, Barbora - BEDNÁRIKOVÁ, Zuzana - TVRDOŇOVÁ, Monika - GAŽOVÁ, Zuzana. Dual activity of dipeptides on amyloid fibrils of insulin and Abeta40. In *10th Slovak Biophysical Symposium: Book of Contributions*. - Smolenice, Slovakia: Slovak Biophysical Society, 2022, p. 116. ISBN 978-80-973719-4-4.

[9] BEDNÁRIKOVÁ, Zuzana - BYSTRENOVÁ, Eva – BARBALINARDO, Marianna – GAŽOVÁ, Zuzana. Protein amyloid self-assembly, polymorphism and biological significance. In *10th Slovak Biophysical Symposium: Book of Contributions*. - Smolenice, Slovakia: Slovak Biophysical Society, 2022, p. 116. ISBN 978-80-973719-4-4.

[10] GANČÁR, Miroslav - ANTOŠOVÁ, Andrea - BEDNÁRIKOVÁ, Zuzana - MAREK, Jozef - BYSTRENOVÁ, Eva - GAŽOVÁ, Zuzana. Cations' influence on amyloid aggregation of alpha-lactalbumin. In *9th Scandinavian and Baltic Conference, Amyloid Diseases and Amyloid Mechanisms (ADAM9)* 14 – 16 November, 2022, Riga, Latvia, p. 58, Dostupné na: <https://adam9.osi.lv/abstract-book>.

[11] BEDNÁRIKOVÁ, Zuzana - WANG, Rui - GANČÁR, Miroslav - ZHENG, Lulu - TANG, Yun - LUO, Yating - HUANG, Yan - SPODNIÁKOVÁ, Barbora - MA, Lei - GAŽOVÁ, Zuzana. Extracts from Chinese herbs with anti-amyloid and neuroprotective activities. In 9th Scandinavian and Baltic Conference, Amyloid Diseases and Amyloid Mechanisms (ADAM9) 14 – 16 November, 2022, Riga, Latvia, p. 68, Dostupné na: <https://adam9.osi.lv/abstract-book>.

[12] SPODNIÁKOVÁ, Barbora - KRUPA, Pawel - GANČÁR, Miroslav - ANTOŠOVÁ, Andrea - HAMULÁKOVÁ, Slávka - LI, Mai-Suan - GAŽOVÁ, Zuzana. Bis-coumarin homodimers—potential inhibitors of amyloid aggregation of globular and intrinsically disordered proteins. In Biophysical Society Annual Meeting, 19. – 23. 02. 2022, Moscone Center, San Francisco, USA.

32.) Teoretické štúdium frustrovaných magnetických systémov (*Theoretical study of frustrated magnetic systems*)

Zodpovedný riešiteľ: Marián Jurčišin
Trvanie projektu: 1.7.2021 / 30.6.2025
Evidenčné číslo projektu: APVV-20-0293
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 35567 €

Dosiahnuté výsledky:

[1] E. Jurčišinová and M. Jurčišin, Phase diagram and thermodynamic properties of the frustrated ferro-antiferromagnetic spin system on the octahedral lattice, *Physica A* 603 (2022) 127731.

[2] E. Jurčišinová and M. Jurčišin, Wasp-waisted hysteresis in magnetic materials with octahedral structure: A theoretical expl. based on exactly solvable model, *Physics Letters A* 443 (2022) 128225.

[3] E. Jurčišinová and M. Jurčišin, Single-ion anisotropy as the source of anomalies in thermodynamic properties of magnetic spin-1/2 ? 1 mixed systems on square and simple cubic lattices, *Journal of Statistical Mechanics: Theory and Experiment* 11 (2022) 113204.

[4] E. Jurčišinová and M. Jurčišin, Prediction of the existence of an intermediate phase in the antiferromagnetic J1-J2 system on the face-centered cubic lattice, *Europhysics Letters* 139 (2022) 26001.

[5] E. Jurčišinová and M. Jurčišin, Influence of interaction-generated anisotropy on the antiferromagnetic spin system on the octahedral lattice, *Europhysics Letters* 140 (2022) 46002.

[6] E. Jurčišinová and M. Jurčišin, General solution of spin-1 Ising model in the effective field theory approximation: critical temperatures and spontaneous magnetization, *Phase Transitions* 95 (2022) 1.

[7] P. Farkašovský and L. Regeciová, Ground state and thermodynamic properties of the coupled double-Ising model: application to rare-earth tetraborides, *Journal of Physics—Condensed Matter* 34 (2022) 435802.

[8] L. Regeciová and P. Farkašovský, Ground states and thermodynamics of the spin-electron model with mixed spins: Application to rare-earth tetraborides, *Physica E: Low-Dimensional systems and*

nanostructures 143 (2022) 115396.

[9] P. Farkašovský, Ferromagnetism in the Three-dimensional Hubbard Model with Generalized Type of Electron Hopping, *Journal of Superconductivity and Novel Magnetism* 35 (2022) 2391-2395.

[10] P. Farkašovský, Superconducting correlations in the two-dimensional Hubbard model with long-range electron hopping, *Physica C: Superconductivity and its Applications* 602 (2022) 1354141.

33.) Vývoj translačne relevantných regeneračných a reparatívnych stratégií po traumatickom poranení miechy (*The development of translationally relevant regenerative and reparative strategies after spinal cord trauma*)

Zodpovedný riešiteľ: Andrey Musatov
Trvanie projektu: 1.7.2020 / 30.6.2024
Evidenčné číslo projektu: APVV-19-0324
Organizácia je koordinátorom projektu: nie
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 9244 €

Dosiahnuté výsledky:

Nanočastice môžu byť použité v mnohých terapeutických postupoch, vrátane riadeného dodávania a uvoľňovania liečiva, tepelnej terapie a foto- a sonodynamickej terapie. Tieto terapeutické prístupy sú však doposiaľ limitované, kvôli ťažkostiam spojeným s presnou kontrolou ich terapeutickú účinnosti a cieľenou lokalizáciou. Ako vhodný prístup sa javí aplikácia ultrazvukovej transmisnej tomografie (UTT) po ultrazvukovom ohreve s využitím nanomateriálov ako mediátorov [1]. Testované boli viaceré nanomateriály a preukázali sme výrazné zlepšenie kontrastu pri UTT po dopovaní systému nanočasticami, ktoré v procese ultrazvukového ohrevu generujú teplo a pozorujeme indukované zvýšenie teploty. Kombinácia zobrazovacej modality založenej na všeobecne bezpečnom a dobre známom ultrazvukovom zobrazovaní a použitie nanomateriálov ako mediátorov predstavuje sľubný teranostický prístup [1]. Za účelom presnej a účinnej lokalizácie liečiva viazaného na magnetický nanočasticový systém bol zostrojený fokusovaný magnet. Experimentálne testovanie bolo uskutočnené pri intravenóznom a intraartériálnom podaní nanokapsúl potkanom, ale aj pri 3D-modeli ľudského supra-vaskulárneho systému vytlačeného na 3D tlačiarňi. Ukázali sme že pri endovaskulárnom injektovaní nanokapsúl tvorených magnetickými časticami s naviazaným liečivom, boli tieto nanokapsuly účinne dopravené a udržané v mieste určenia. Pomocou fluorescenčného farbenia sme preukázali zhruba 4-násobne vyššie zakoncentrovanie liečiva v mieste určenia pri použití magnetu. Tento prístup kontrolovaného endovaskulárneho podávania liečiv a magnetického zakoncentrovania predstavuje sľubný prístup pri liečbe stavov po ischémii/mŕtvici [2]. Významným aspektom pri použití nanočasticových systémov je aj ich odozva na externé elektrické a magnetické pole. Aplikácia vonkajšieho elektrického poľa môže viesť k usporiadaniu magnetických nanočastíc dispergovaných v nepolárnom prostredí. Na druhej strane, výsledné usporiadanie častíc vplyvom elektrického poľa môže mať vplyv na ich odozvu na vložené magnetické pole. Ukázali sme tiež, že aplikácia striedavého a/alebo rotujúceho magnetického poľa vedie k tvorbe tepla v procesoch hypertermie [3-5]. Ukázali sme, že individuálne nanočastice disponujú silnejšou odozvou na rotujúce magnetické pole v porovnaní s nanočasticami usporiadanými v retiazkach (magnetozómy) [3,4]. Navyše, nanočasticami je možné modifikovať rôzne systémy, vrátane nanotextílií [5]. Významným terapeutickým potenciálom vďaka jedinečným vlastnostiam disponujú aj nanočastice CeO₂, ktoré sú vhodným kandidátom pri štúdiu procesov vznikajúcich v dôsledku oxidačného stresu [6]. Dokážu

významne ovplyvniť amyloidogézu proteínov a vykazujú pseudoenzymatickú (antioxidačnú) aktivitu v závislosti od ich fyzikálno-chemických vlastností, ktoré je možné riadiť vhodne upravenými podmienkami syntézy [6]. Anti-amyloidný inhibičný efekt sme pozorovali aj pre fullerén C60, a pomocou in silico metód sme ukázali ako prítomnosť C60 ovplyvňuje štruktúru a stabilitu natívneho proteínu a následne aj amyloidnú agregáciu [7]. Jedným z cieľov projektu je príprava nanočasticových nosičov liečiv, kde sa ako vhodný kandidát javia Fe₃O₄ a CeO₂ nanočastice ktoré disponujú rozmanitými vlastnosťami, vrátane katalytickej aktivity, čo ich predurčuje na široké využitie v priemysle a aplikáciou v biomedicíne [6,8]. Ich praktická aplikácia však závisí od ich stability a biokompatibility. To je možné zabezpečiť vhodnou povrchovou úpravou, napr. použitím fosfolipidov a detergentov. Tieto amfifilné molekuly však dokážu výrazne ovplyvniť hydrofóbne interakcie. Ukázali sme, že chobimalt (detergent obsahujúci cholesterol) výrazne ovplyvňuje nielen kinetiku agregácie inzulínu, ale aj výslednú morfológiu fibril, a to v dôsledku postupného obsadzovania väzobných miest na proteíne [9].

[1] Józefczak, A., Opieliński, K.J., Bielas, R., Pruchnicki, P., Bułkowski, M., Jędrzak, A., Šafařík, I., Kopčanský, P. Ultrasound transmission tomography-guided heating with nanoparticles. *Meas.: J. Int. Meas. Confed.*, 2022, 197, art. no. 111345

[2] Grayston, A., Zhang, Y., Garcia-Gabilondo, M., Arrúe, M., Martin, A., Kopcansky, P., Timko, M., Kovac, J., Strbak, O., Castellote, L., Belloli, S., Moresco, R.M., Picchio, M., Roig, A., Rosell, A. Endovascular administration of magnetized nanocarriers targeting brain delivery after stroke. *J. Cereb. Blood Flow Metab.*, 2022, 42 (2), pp. 237-252

[3] Molcan, M., Skumiel, A., Timko, M., Safarik, I., Zolocheska, K., Kopcansky, P. Tuning of Magnetic Hyperthermia Response in the Systems Containing Magnetosomes. *Molecules*, 2022, 27 (17), art. no. 5605

[4] Skumiel, A., Kopcansky, P., Timko, M., Molcan, M., Paulovicova, K., Wojciechowski, R. The influence of a rotating magnetic field on the thermal effect in magnetic fluid. *Int. J. Therm. Sci.* 2022, 171, art. no. 107258

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[6] Siposova, K.; Huntosova, V.; Garcarova, I.; Shlapa, Yu.; Timashkov, I; Belous, A.; Musatov, A. Dual-Functional Antioxidant and Anti-amyloid Cerium Oxide Nanoparticles Fabricated by Controlled Synthesis in Water-Alcohol Solutions. *Biomedicines*. 2022, 10, 942

[7] Lee, O.-S.; Petrenko, V.I.; Siposova, K.; Musatov, A.; Park, H.; Lanceros-Méndez, S. How fullerenes inhibit the amyloid fibril formation of hen lysozyme. *J. Ind. Eng. Chem.* 2022, 106, 168–176

[8] Gombos, J., Balejcikova, L., Kopcansky, P., Batkova, M., Siposova, K., Kovac, J., Zolocheska, K., Safarik, I., Lokajova, A., Garamus, V.M., Dobrota, D., Strbak, O. Destruction of Lysozyme Amyloid Fibrils Induced by Magnetoferritin and Reconstructed Ferritin. *Int. J. Mol. Sci.*, 2022, 23(22), 13926

[9] Siposova, K.; Petrenko, V.I.; Garcarova, I.; Sedlakova, D.; Almasy, L.; Kyzyma, O.A.; Kriechbaum, M.; Musatov, A. The intriguing dose-dependent effect of selected amphiphilic compounds on insulin amyloid aggregation: Focus on a cholesterol-based detergent, Chobimalt. *Front. Mol. Biosci.* 2022, 9, 955282

34.) Nanokvapaliny v elektrotechnike (*Nanofluids in Electrical Engineering*)

Zodpovedný riešiteľ:	Michal Rajňák
Trvanie projektu:	1.7.2019 / 30.6.2023
Evidenčné číslo projektu:	APVV-18-0160
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 21503 €

Dosiahnuté výsledky:

Riešenie projektu NANOELLEN bolo v roku 2022 orientované na plánované testovanie nanokvapalín na báze GTL oleja v prototypu jednofázového transformátora s nominálnym výkonom 5 kVA. V tomto roku boli tiež pripravené nanokvapaliny na báze syntetických a prírodných esterov. Okrem nanokvapalín s obsahom magnetických nanočastíc boli úspešne pripravené aj nanokvapaliny s obsahom fullerénu C60, ktorý výrazne zlepšil tepelný transport a elektrickú pevnosť nosných kvapalín. Na pripravených nanokvapalinách boli skúmané dielektrické, magnetické, tepelné a štruktúrne vlastnosti. Počas riešenia tohto projektu v roku 2022 vznikli nasledujúce publikácie:

[1] M. Rajňák, J. Kurimský, K. Paulovičová, M. Franko, B. Dolník, R. Cimbala, M. Timko, P. Kopčanský, V. Girman, M. Lisnichuk, Dielectric and thermal performance of a C60-based nanofluid and a C60-loaded ferrofluid, *Phys. Fluids*. 34 (2022) 107106. <https://doi.org/10.1063/5.0117899>.

[2] M. Rajňák, M. Franko, K. Paulovičová, M. Karpets, K. Parekh, R. Upadhyay, J. Kurimský, B. Dolník, R. Cimbala, P. Havran, M. Timko, P. Kopčanský, Effect of ferrofluid magnetization on transformer temperature rise, *J. Phys. D. Appl. Phys.* 55 (2022) 345002. <https://doi.org/10.1088/1361-6463/AC7425>.

[3] M. Karpets, M. Rajnak, V. Petrenko, I. Gapon, M. Avdeev, L. Bulavin, M. Timko, P. Kopcanský, Electric field-induced assembly of magnetic nanoparticles from dielectric ferrofluids on planar interface, *J. Mol. Liq.* 362 (2022) 119773. <https://doi.org/10.1016/J.MOLLIQ.2022.119773>.

[4] M. Šárpataky, J. Kurimský, M. Rajňák, K. Paulovičová, M. Krbal, L. Pelikán, Synthetic and natural ester-based nanofluids with fullerene and magnetite nanoparticles – An experimental AC breakdown voltage study, *J. Mol. Liq.* 368 (2022) 120802. <https://doi.org/10.1016/J.MOLLIQ.2022.120802>.

[5] R. Cimbala, P. Havran, J. Király, M. Rajňák, J. Kurimský, M. Šárpataky, B. Dolník, K. Paulovičová, Dielectric response of a hybrid nanofluid containing fullerene C60 and iron oxide nanoparticles, *J. Mol. Liq.* 359 (2022) 119338. <https://doi.org/10.1016/J.MOLLIQ.2022.119338>.

[6] P. Gębara, M. Hasiak, J. Kovac, M. Rajnak, Entalpy of Mixing, Microstructure, Structural, Thermomagnetic and Mechanical Properties of Binary Gd-Pb Alloys, *Mater.* 2022, Vol. 15, Page 7213. 15 (2022) 7213. <https://doi.org/10.3390/MA15207213>.

[7] P. Havran, R. Cimbala, J. Király, M. Rajňák, S. Bucko, J. Kurimský, B. Dolník, Frequency-Dependent Dielectric Spectroscopy of Insulating Nanofluids Based on GTL Oil during Accelerated Thermal Aging, *Process.* 2022, Vol. 10, Page 2405. 10 (2022) 2405. <https://doi.org/10.3390/PR10112405>.

[8] J. Kurimský, M. Rajňák, R. Cimbala, Pulse induced failures in bi-axially oriented polypropylene capacitors: Experimental investigation, Ain Shams Eng. J. (2022) 102086. <https://doi.org/10.1016/J.ASEJ.2022.102086>.

[9] M. Šárpataky, M. Rajňák, J. Kurimský, M. Krbal, L. Pelikán, Comparative study of dielectric properties of mineral oil, synthetic ester and natural ester, Proc. 11th Int. Sci. Symp. Electr. Power Eng. Elektroenerg. 2022. (2022) 241–245.

[10] O. V. Kovalchuk, T.M. Kovalchuk, N. Tomašovičová, M. Timko, K. Zakutanska, D. Miakota, P. Kopčanský, O.F. Shevchuk, Y. Garbovskiy, Dielectric and electrical properties of nematic liquid crystals 6CB doped with iron oxide nanoparticles. The combined effect of nanodopant concentration and cell thickness, J. Mol. Liq. 366 (2022) 120305. <https://doi.org/10.1016/J.MOLLIQ.2022.120305>.

[11] M. Molcan, I. Safarik, J. Prochazkova, P. Kopcansky, M. Timko, A. Skumiel, The impact of alternating and rotating regimes on the heating characteristics of magnetic bacterial cellulose structure, J. Magn. Mater. 563 (2022) 170015. <https://doi.org/10.1016/J.JMMM.2022.170015>.

[12] P. Havran, R. Cimbala, J. Kurimský, B. Dolník, I. Kolcunová, D. Medved', J. Király, V. Kohan, Ľ. Šárpataky, Dielectric Properties of Electrical Insulating Liquids for High Voltage Electric Devices in a Time-Varying Electric Field, Energies 2022, Vol. 15, Page 391. 15 (2022) 391. <https://doi.org/10.3390/EN15010391>.

Book chapter:

M. Timko, P. Kopcansky, M. Rajnak, M. Karpets, K. Paulovicova, O. V. Kovalchuk and L. A. Bulavin, Dielectric and Magnetic Properties of Nanofluids, in Fundamentals and Transport Properties of Nanofluids, edited by S. M. Sohel Murshed, Royal Society of Chemistry, ISBN 978-1-83916-419-4, 21 Dec. 2022, <https://doi.org/10.1039/9781839166457>

Bola podaná medzinárodná PCT prihláška, zapísaná pod číslom PCT/SK2022/050009 (Device for measuring the magneto-dielectric properties of thin dielectric layers and a system containing the device).

35.) Topologicky netriviálne magnetické a supravodivé nanoštruktúry

Zodpovedný riešiteľ:	Peter Samuely
Trvanie projektu:	1.7.2021 / 30.6.2025
Evidenčné číslo projektu:	APVV-20-0425
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Mgr. Tomáš Samuely, PhD.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 13800 €

Dosiahnuté výsledky:

36.) Elektrokatalyzátory pre efektívnu produkciu vodíka pre budúce elektrolyzéry a palivové články

Zodpovedný riešiteľ: Magdaléna Strečková
Zodpovedný riešiteľ v organizácii SAV: Marianna Baťková
Trvanie projektu: 1.7.2021 / 30.6.2025
Evidenčné číslo projektu: APVV 20-0299
Organizácia je koordinátorom projektu: nie
Koordinátor: Ústav materiálového výskumu SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 4152 €

Dosiahnuté výsledky:

[1] HEČKOVÁ, Mária - STREČKOVÁ, Magdaléna** - ORIŇÁKOVÁ, Renáta - GUBOVÁ, M. - BALÁŽ, Matej - GIRMAN, Vladimír - MÚDRA, Erika - BERA, Cyril - BAŤKOVÁ, Marianna. Effect of heat treatment on the morphology of carbon fibers doped with Co₂p nanoparticles. In Chemical Papers, 2022, vol. 76, no. 2, p. 855-867. (2021: 2.146 - IF, Q3 - JCR, 0.365 - SJR, Q2 - SJR). ISSN 0366-6352. Dostupné na: <https://doi.org/10.1007/s11696-021-01897-0>

[2] STREČKOVÁ, Magdaléna** - PETRUŠ, Ondrej - GUBOVÁ, A. - ORIŇÁKOVÁ, R. - GIRMAN, Vladimír - BERA, Cyril - BAŤKOVÁ, Marianna - BALÁŽ, Matej - SHEPA, Jana - DUSZA, Ján. Nanoarchitectonics of binary transition metal phosphides embedded in carbon fibers as a bifunctional electrocatalysts for electrolytic water splitting. In Journal of Alloys and Compounds, 2022, vol. 923, art. no. 166472. (2021: 6.371 - IF, Q1 - JCR, 1.027 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 0925-8388. Dostupné na: <https://doi.org/10.1016/j.jallcom.2022.166472> Typ: ADCA

37.) Elektronové korelácie v neusporiadaných supravodičoch (*Electron correlations in disordered superconductors*)

Zodpovedný riešiteľ: Pavol Szabó
Trvanie projektu: 1.7.2019 / 30.6.2023
Evidenčné číslo projektu: APVV-18-0358
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 33998 €

Dosiahnuté výsledky:

Vplyv substrátu na supravodivé vlastnosti ultratenkých filmov – Na ultratenkých filmoch Mo₂N hrúbky 3nm, ktoré a nachádzali v tesnej blízkosti kritickej neusporiadanosti sme študovali lokálne supravodivé vlastnosti pomocou nízkoteplotných STM meraní. Na povrchoch študovaných vzoriek sme pozorovali nehomogénne oblasti veľkosti ~ 100 – 1000 nm². Po podrobnej analýze nameraných tunelových spektier sme zistili, že nehomogenity supravodivého stavu korelujú s nerovnosťami študovaných povrchov. Tunelové spektrá merané v oblastiach, kde je vzorka tenšia vykazujú menšiu hodnotu supravodivej energetickej medzery a väčšie spektrálne rozmazanie ako v hrubších oblastiach, t.j. supravodivosť je výraznejšie potlačená v oblastiach, ktoré sú bližšie k zafirovému

substrátu. Ukázali sme, že v ultratenkých filmoch Mo₂N rozhranie medzi tenkým filmom a substrátom je lokálnym zdrojom potlačenia supravodivosti a nárast spektrálneho rozmazania v oblastiach s menšou hodnotou energetickej medzery je zapríčinený lokálnymi depárovacími (pair-breaking) efektmi Cooperových párov. Výsledky boli vybraté na publikovanie v špeciálnom vydaní časopisu J. Supercond. Nov. Magn. [1], ktorý bol venovaný 95 narodeninám Prof. K. Müllera, nositeľa Nobelovej ceny za objav vysokoteplotnej supravodivosti.

Štúdium supravodivosti v dopovanom germániu – V spolupráci so skupinou Prof. Y. Naydjuka z FTINT Charkov sme sa venovali štúdiu supravodivosti v dopovaných germániových vzorkách. V týchto systémoch supravodivosť bola pozorovaná ešte v 60-tich rokoch minulého v prítomnosti vysokého tlaku. Supravodivosť vykazovala kovová fáza, ktorá sa nachádzala v blízkosti tlakom indukovaného prechodu izolant-kov. V našich experimentoch sme študovali túto supravodivú fázu pomocou mikrokontaktovej spektroskopie. Tlak sme vytvorili lokálne, pritlačením ostrého kovového hrotu z PtIr na povrch dopovaného germánia. Takto vytvorený kontakt sme používali na meranie I-V charakteristík pri teplotách $T > 1.5$ K. Zistili sme, väčšina mikrokontaktov bola balistická s evidentnou prítomnosťou Andreevovskej reflexie. To poukazovalo na prítomnosť supravodivého stavu v blízkosti mikrokontaktu. Fitovaním I-V charakteristík na teoretický model BTK sme určili veľkosť energetickej medzery a jej závislosť od teploty a magnetického poľa. Zistili energetickú medzeru $\Delta = 2,45$ meV s kritickou teplotou $T_c = 5,5$ K, čo svedčí o prítomnosti extrémne silnej supravodivej väzby $2\Delta/kBT_c = 10 \pm 1$ čo takmer 3 krát prevyšuje hodnotu BCS väzby v klasických supravodičoch [2].

[1] M. Kuzmiak, M. Kopčík, F. Košuth, V. Vaňo, P. Szabó, V. Latyshev, V. Komanický & P. Samuely, Suppressed Superconductivity in Ultrathin Mo₂N Films due to Pair-Breaking at the Interface, J. Supercond. Nov. Magn. 35, 1775–1780 (2022) <https://doi.org/10.1007/s10948-022-06197-6>

[2] N. V. Gamayunova, M. Kuzmiak, P. Szabó, P. Samuely, and Yu. G. Naidyuk, Superconductivity in hole-doped germanium point contacts, Low Temperature Physics 48, 136 (2022); <https://doi.org/10.1063/10.0009293>

38.) Nové nano/mikroštruktúrované kovové materiály pripravené nekonvenčnými spôsobmi spracovania (*Novel nano/micro-structured metallic materials prepared by unconventional processing routes*)

Zodpovedný riešiteľ:	Peter Švec
Zodpovedný riešiteľ v organizácii SAV:	Ivan Škorvánek
Trvanie projektu:	1.7.2020 / 30.6.2024
Evidenčné číslo projektu:	APVV-19-0369
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 28381 €

Dosiahnuté výsledky:

Naše výskumné aktivity boli zamerané na štúdium nanokryštalických magneticky mäkkých zliatin s vysokými hodnotami nasýtenej magnetickej indukcie, ktoré sme pripravili využitím nekonvenčnej techniky ultra-rýchleho tepelného spracovania. Za týmto účelom sme skonštruovali žihaciu aparaturu, vďaka ktorej bolo možné realizovať ultra-rýchle tepelné spracovanie študovaných

amorfných kovových pásov vo vákuu alebo v ochrannnej atmosfére. Toto zariadenie využíva vopred predhriate masívne medené bloky, medzi ktoré sa vkladá žihaná vzorka pričom doba žihania postačujúca na nanokryštalizáciu amorfných prekursorov je zvyčajne niekoľko sekúnd. Vysoká rýchlosť ohrevu a podstatne kratšie časy tepelného spracovania v porovnaní s konvenčným žihacími technikami umožnili dosiahnuť tvorbu nanokryštalickej štruktúry a s ňou spojené zlepšenie magneticky mäkkých parametrov i v prípade binárnych Fe-B a ternárnych Fe-Co-B zliatinových systémoch. Vďaka redukovanému obsahu sklotvorných nemagnetických prvkov sme v týchto zliatinách dosiahli extrémne vysoké hodnoty nasýtenej magnetickej indukcie, ktoré dosahovali 1,9 – 2 T. Pre vzorky na báze FeCoBCu a FeSnB viedli experimenty s využitím techniky rýchleho žihania k zmenšeniu veľkosti nanokryštalických zŕn a k získaniu podstatne lepších magneticky mäkkých vlastností v porovnaní so klasickým dlhodobým žiham v konvenčnej žihacej aparatúre. V prípade rýchlochladených kovových zliatin typu FINEMET bol sledovaný vplyv mechanického namáhania na magnetizačné procesy. Pre túto štúdiu boli vybrané amorfné kovové pásky s nominálnym zložením Fe_{73.5}Cu₁Nb₃Si_{13.5}B₉. Pri rôznych stupňoch mechanického namáhania boli pozorované významné rozdiely v magnetických vlastnostiach amorfných pásov. Pôvod týchto efektov bol interpretovaný zmenou parametrov domémových stien (hrúbka, energia na jednotku plochy) ako i vnútorných napätí, ktoré sú prekážkami ich pohybu v procese premagnetovania. Teoretická FORC analýza bola použitá pri štúdiu magnetických vlastností súboru Ni-Fe-Ga nanodrôtov, vykazujúcich efekty magnetickej tvarovej pamäte. Získané výsledky poukázali na existenciu magnetostatickej väzby medzi susednými nanodrôtmi, ktorá významným spôsobom ovplyvňuje magnetické charakteristiky tohto silne interagujúceho systému feromagnetických nanodrôtov.

[1] B. Kunca B., Marcin J., Parsons R., Švec P., Švec P. sr., Suzuki K., Škorvánek I.: Soft magnetic performance of ultra-rapidly annealed high-Bs Fe-(Co)-B nanocrystalline alloys at elevated temperatures, *Journal of Alloys and Compounds*, 2022, 911, 165033

[2] Novák, L., Kováč J., Influence of mechanical stress on magnetization processes in amorphous FINEMET alloy, *Journal of Alloys and Compounds*, 2022, 909, 164846

[3] Lindner N., Sniadecki Z., Kołodziej M., Greneche Jean-Marc, Marcin J., Škorvánek I., Bogdan Idzikowski, Tunable magnetocaloric effect in amorphous Gd-Fe-Co-Al-Si alloys, *Journal of Materials Science*, 2022, 57, pp. 553–562

[4] Gębara, P., Hasiak, M., Kovac, J., Rajnak, M., Entalpy of Mixing, Microstructure, Structural, Thermomagnetic and Mechanical Properties of Binary Gd-Pb Alloys, *Materials*, 2022, 15(20), 7213

[5] Varga M., Galdun L., Kunca B., Vega V., García JU., Prida V.M., Barriga-Castro E.D., Luna C., Diko P., Saksl K., Varga R., FORC and TFORC analysis of electrodeposited magnetic shape memory nanowires array, *Journal of Alloys and Compounds* 2022, 897, 163211

39.) Pružné mikroštruktúry a mikroroboty pre biomedicínske labon-chip aplikácie

Zodpovedný riešiteľ:	Zoltán Tomori
Trvanie projektu:	1.7.2022 / 30.6.2026
Evidenčné číslo projektu:	APVV-21-0333
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 3107 €

Dosiahnuté výsledky:

Kubackova, J., Slabý, C., Horvath, D., Hovan, A., Ivány, G.T., Vizsnyiczai, G., Kelemen, L., Strečková, A., Tomori, Z., and Bánó, G.: 'Viscosity measurements using flexible microstructures'. Proc. Regional Biophysics Conference, Pecs, Hungary, August 22-26 2022

Slabý, C., Kubackova, J., Vizsnyiczai, G., Horvath, D., Kelemen, L., Hovan, A., Žoldák, G., Ivány, G.T., Tomori, Z., and Bánó, G.: 'The viscoelastic behaviour of photopolymer nanowires – experiments and modeling'. Proc. Regional Biophysics Conference, Pecs, Hungary, August 22-26 2022

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

Zodpovedný riešiteľ: Hana Vargová
Trvanie projektu: 1.7.2021 / 30.6.2025
Evidenčné číslo projektu: APVV-20-0150
Organizácia je koordinátorom projektu: nie
Koordinátor: Univerzita Pavla Jozefa Šafárika v Košiciach - Prírodovedecká fakulta
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 5367 €

Dosiahnuté výsledky:

1. J. Strečka, T. Verkholyak, J. Richter, K. Karl'ová, O. Derzhko, J. Schnack, Frustrated magnetism of spin-1/2 Heisenberg diamond and octahedral chains as a statistical-mechanical monomer-dimer problem, Phys. Rev. B 105 (2022) 064420 (18 strán). doi: 10.1103/PhysRevB.105.064420
2. K. Zollner, M. Gmitra, J. Fabian, Proximity spin-orbit and exchange coupling in ABA and ABC trilayer graphene van derWaals heterostructures, Phys. Rev. B 105 (2022) 115126 (24 strán). doi: 10.1103/PhysRevB.105.115126
3. M. Mohyl'na, F. A. Gómez Albarracín, M. Žukovič, H. D. Rosales, Spontaneous antiferromagnetic skyrmion/antiskyrmion lattice and spiral spin-liquid states in the frustrated triangular lattice, Phys. Rev. B 106 (2022) 224406 (10 strán). doi: 10.1103/PhysRevB.106.224406
4. M. Žukovič, G. Kalagov, XY model with competing higher-order interactions, Phys. Rev. E 105 (2022) 034129 (10 strán). doi: 10.1103/PhysRevE.105.034129
5. H. Arian Zad, J. Strečka, Unconventional spin frustration due to two competing ferromagnetic interactions of a spin-1/2 Ising-Heisenberg model on martini and martini-diced lattices, Phys. Rev. E 105 (2022) 044115 (13 strán). doi: 10.1103/PhysRevE.105.044115
6. R. Krčmár, A. Gendiar, L. Šamaj, Ising ferromagnets and antiferromagnets in an imaginary magnetic field, Phys. Rev. E 105 (2022) 054112 (10 strán). doi: 10.1103/PhysRevE.105.054112
7. K. Karl'ová, J. Strečka, J. Richter, Towards lattice-gas description of low-temperature properties above the Haldane and cluster-based Haldane ground states of a mixed spin-(1,1/2) Heisenberg octahedral chain, Phys. Rev. E 106 (2022) 014107 (12 strán). doi: 10.1103/PhysRevE.106.014107
8. H. Vargová, J. Strečka, Conventional and inverse magnetocaloric and electrocaloric effects of a mixed spin-(1/2, 1) Heisenberg dimer, Eur. Phys. J. Plus 137 (2022) 490 (12 strán). doi: 10.1140/epjp/s13360-022-02694-8
9. F. Benabdallah, K. El Anouz, J. Strečka, M. Daoud, Thermal non-classical correlation via skew information, quantum Fisher information, and quantum teleportation of a spin-1/2 Heisenberg trimer system, Eur. Phys. J. Plus 137 (2022) 1096 (18 strán). doi: 10.1140/epjp/s13360-022-03297-z
10. L. Gálisová, Insight into ground-state spin arrangement and bipartite entanglement of the polymeric coordination compound [Dy₂Cu₂]

Programy: Štrukturálne fondy EÚ Výskum a inovácie

41.) Vývoj biomodelov pre zlepšenie hodnotenia účinnosti liekov a látok, ktoré majú potenciál pri liečbe COVID-19 (BIOVID-19)

Zodpovedný riešiteľ:	Oľga Pecháčková
Zodpovedný riešiteľ v organizácii SAV:	Martina Koneracká
Trvanie projektu:	29.6.2021 / 30.6.2023
Evidenčné číslo projektu:	313011AVG3
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Centrum experimentálnej medicíny SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	EŠIF: 254832 €

Dosiahnuté výsledky:

V druhom roku riešenia projektu sa realizovali 2 typy experimentov v rámci aktivity 4 „Príprava a testovanie nanonosičov kortikosteroidov a rekombinantného „spike“ proteínu ako biomodelu pre sledovanie komplikácií spojených s COVID-19“. Prvý experiment nadväzoval na predchádzajúce dosiahnuté výsledky týkajúce hľadania a uzavretie vhodného kortikosteroidu do biokompatibilných systémov. Ako modelové liečivá boli navrhnuté kortikosteroidy Prednisol (Pre) aj Prednisolone (PreL), ktoré boli nanoprecipitačnou metódou enkapsulované do biodegradovateľného polyméru kyseliny mliečnej (PLA). Kým vzorky s uzavretým (Pre) boli veľmi nestabilné, naopak vzorky s (PreL) vykazovali veľmi dobrú časovú stabilitu. Vzorky s rôznou vstupnou koncentráciou PreL v PLA nanospférach boli charakterizované rôznymi fyzikálnochemickými metódami s cieľom nájsť optimálny pomer liečiva a polyméru PLA a tak pripraviť stabilný polymérny nanonosič s enkapsulovaným modelovým liečivom pre sledovanie komplikácií spojených s COVID-19. Druhý experiment bol zameraný na vyselektovanie nového lieku na liečbu pacientov so syndrómom akútnej respiračnej tiesne (ARDS). Éra Covid-19 nám ukázala, aké náročné je liečiť pacientov so syndrómom ARDS. N-acetylcysteín bol navrhnutý ako mykotikum bežne používané pri liečbe dýchacích ciest. Liečivo rozpúšťa všetky zložky, ktoré spôsobujú viskóznny hlien, a tým podporuje vykašliavanie. Po procese optimalizácie konjugácie liečiva na modifikované magnetické nanonosiče rôznymi fyzikálno-chemickými metódami, boli vzorky monitorované z hľadiska časovej stability v rôznych biologických médiach s cieľom nájsť optimálne podmienky pre ďalšie in vitro testovanie.

Súhrn najhodnotnejších výsledkov týkajúci sa syntézy magnetických nanonosičov obalených polymérom poly-L-lyzín a rôznymi aminokyselinami (prolín, a tryptofán) bol publikovaný v práci [1]. Tieto modifikované magnetické nanonosiče boli značené rádionuklidmi a následne testované in vitro (stabilita v médiách a rádiochemická čistota) ale aj in vivo (biodistribúcia).

[1] Marija Mirkovic, Zorana Milanovic, Marko Peric, Sanja Vranjes-Đuric, Milos Ognjanovic, Bratislav Antic, Milorad Kuraica, Ivan Krstic, Martina Kubovcikova, Iryna Antal, Radka Sobotova, Vlasta Zavisova, Alena Jurikova, Martin Fabian, Martina Koneracka: Design and preparation of proline, tryptophan and poly-L-lysine functionalized magnetic nanoparticles and their radiolabeling with ¹³¹I and ¹⁷⁷Lu for potential theranostic use; International Journal of Pharmaceutics 628 (2022) 12228, <https://doi.org/10.1016/j.ijpharm.2022.122288>

42.) Kvantové materiály pri ultra-nízkyh teplotách - MIKROKELVIN (*Quantum matters at very low temperatures - MICROKELVIN*)

Zodpovedný riešiteľ: Peter Skyba
Trvanie projektu: 1.1.2020 / 30.6.2023
Evidenčné číslo projektu: 313011W856
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: EŠIF: 48889 €

Dosiahnuté výsledky:

A. Azarevich, V. Glushkov, S. Demishev, A. Bogach, V. Voronov, S. Gavrilkin, N. Shitsevalova, V. Filipov, S. Gabáni, J. Kačmarčík, K. Flachbart, N. Sluchanko: Evidence of symmetry lowering in antiferromagnetic metal TmB12 with dynamic charge stripes. *Journal of Physics Condensed Matter* 34, 065602 (2022)

43.) Nanočastice pre riešenie diagnosticko-terapeutických problémov s COVID-19 (NANO VIR)

Zodpovedný riešiteľ: Vlasta Závišová
Trvanie projektu: 3.3.2021 / 30.6.2023
Evidenčné číslo projektu: 313011AUW7
Organizácia je koordinátorom projektu: nie
Koordinátor: Univerzita Pavla Jozefa Šafárika v Košiciach
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: EŠIF: 27570 €

Dosiahnuté výsledky:

Za účelom detekcie a terapie vírusových ochorení boli naďalej vyvíjané nové biokompatibilné kompozitné systémy magnetických nanočastíc s kremíkovou vrstvou silikou, ktorých povrch bol modifikovaný rôznymi chemickými zlúčeninami: chitozánom, poly-L-lyzínom a polyetyléniminom s cieľom preskúmať vplyv rôznych chemických skupín a kladného náboja na interakcie s biomakromolekulami a ich účinnosti na detekciu vírusov. Na základe fyzikálno-chemickej charakterizácie pripravených nanočastíc sme vyseletovali vzorky s kladným nábojom na povrchu pre in vitro testy. Pomocou fluorescencie a metódy magnetickej separácie bola testovaná účinnosť viazania modifikovaných kompozitných nanočastíc s RNA. Zároveň bola skúmaná aj ich väzba na bunkové membrány epitelových buniek HEK 293 prostredníctvom LDH metódy, ktorá je založená na sledovaní efektu rôznych látok na kompaktnosť bunkovej membrány. Povrchové vlastnosti kompozitných nanočastíc (náboj a veľkosť) do výraznej miery ovplyvňovali ich väzobné a separačné vlastnosti. Naše predbežné experimenty ukázali, že pripravené kompozitné materiály modifikované rôznymi chemickými zlúčeninami môžu byť použité na efektívnu separáciu RNA. Ich efektivita však závisí od náboja a veľkosti kompozitných materiálov, pričom častice s menším rozmerom a kladným nábojom sú najúčinnnejšie pre in vitro separáciu nukleových kyselín. Tieto výsledky boli zaslané na publikovanie.

Súhrn najhodnotnejších výsledkov týkajúci sa syntézy magnetických nanočastíc obalených polymérom poly-L-lyzín a aminokyselinami (prolín, a tryptofán) bol publikovaný v práci [1]. Tieto modifikované magnetické nanočastice boli značené rádionuklidmi a následne testované in vitro

(stabilita v médiách a rádiochemická čistota) ale aj in vivo (biodistribúcia).

[1] Marija Mirkovic, Zorana Milanovic, Marko Peric, Sanja Vranjes-Đuric, Milos Ognjanovic, Bratislav Antic, Milorad Kuraica, Ivan Krstic, Martina Kubovcikova, Iryna Antal, Radka Sobotova, Vlasta Zavisova, Alena Jurikova, Martin Fabian, Martina Koneracka: Design and preparation of proline, tryptophan and poly-L-lysine functionalized magnetic nanoparticles and their radiolabeling with ^{131}I and ^{177}Lu for potential theranostic use; International Journal of Pharmaceutics 628 (2022) 12228, <https://doi.org/10.1016/j.ijpharm.2022.122288>

Programy: DoktoGranty

44.) Štúdium pôsobenia hybridných molekúl na amyloidnú agregáciu globulárnych a prirodzene rozbalených proteínov

Zodpovedný riešiteľ: Barbora Borovská
Trvanie projektu: 1.1.2022 / 31.12.2022
Evidenčné číslo projektu: APP0293
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 2000 €

Dosiahnuté výsledky:

45.) Vplyv magnetického a elektrického poľa na štruktúru magnetických kvapalín

Zodpovedný riešiteľ: Maksym Karpets
Trvanie projektu: 1.1.2021 / 31.12.2022
Evidenčné číslo projektu: APP0140
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 1297 €

Dosiahnuté výsledky:

46.) Určenie parametra fázovej tuhosti v supravodičoch

Zodpovedný riešiteľ: Marek Kuzmiak
Trvanie projektu: 1.1.2022 / 31.12.2022
Evidenčné číslo projektu: APP0292
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 2000 €

Dosiahnuté výsledky:

Programy: IMPULZ

47.) Topologická supravodivosť v kvantových dvojrozmerných zaradieniach (*Topological superconductivity in quantum two-dimensional devices*)

Zodpovedný riešiteľ: Martin Gmitra
Trvanie projektu: 1.4.2022 /
Evidenčné číslo projektu: IM-2021-42
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 108747 €

Dosiahnuté výsledky:

Uskutočnili sme nákup vzoriek kryštálov pre prípravu heteroštruktúr pomocou HQ Graphene transfer systému, taktiež zakúpeného, na prípravu heteroštruktúr z dvojrozmerných materiálov. Študovali sme teoretický elektrónovú štruktúru grafénu na TaS₂ a vplyv nábojovej vlny na Diracové elektróny v graféne. Výsledky boli zaslané do časopisu 2D Materials. Študovali sme spinovo-orbitálny mixovací parameter pre vybrané systémy s inverznou symetriou z triedy dichalkogénov prechodových kovov za účelom predikcie možného isingovského párovania typu-II. Výsledky budeme publikovať v prvom štvrtroku 2023.

Príloha C**Publikačná činnosť organizácie (generovaná z ARL)****ADCA Vedecké práce v zahraničných karentovaných časopisoch – impaktovaných**

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- ADCA08 AAD, G. - ABBOTT, B. - ABBOTT, D.C. - ABED ABUD, A. - ABELING, K. - BRUNCKO, Dušan - MURÍN, Pavol - SMIEŠKO, Juraj - SOPKOVÁ, Filoména - STRÍŽENEC, Pavol - URBÁN, Jozef. Measurement of the $t(t)\text{over-bar}(t)\text{over-bar}$ production cross section in pp collisions at root s=13 TeV with the ATLAS detector. In Journal of High Energy Physics, 2021, no. 11, art. no. 118. (2020: 5.810 - IF, Q1 - JCR, 0.998 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 1029-8479. Dostupné na: [https://doi.org/10.1007/JHEP11\(2021\)118](https://doi.org/10.1007/JHEP11(2021)118)
- ADCA09 AAD, G. - ABBOTT, B. - ABBOTT, D.C. - ABED ABUD, A. - ABELING, K. - BRUNCKO, Dušan - MURÍN, Pavol - SMIEŠKO, Juraj - SOPKOVÁ, Filoména - STRÍŽENEC, Pavol - URBÁN, Jozef. Search for New Phenomena in Final States with Two Leptons and One or No b-Tagged Jets at root S=13 TeV Using the ATLAS Detector. In Physical Review Letters, 2021, vol. 127, no. 14, art. no. 141801. (2020: 9.161 - IF, Q1 - JCR, 3.688 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0031-9007. Dostupné na: <https://doi.org/10.1103/PhysRevLett.127.141801>
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- ADCA11 AAD, G. - ABBOTT, B. - ABBOTT, D.C. - ABED ABUD, A. - ABELING, K. - BRUNCKO, Dušan - MURÍN, Pavol - SMIEŠKO, Juraj - SOPKOVÁ, Filoména - STRÍŽENEC, Pavol - URBÁN, Jozef. Search for dark matter produced in association with a Standard Model Higgs boson decaying into b-quarks using the full Run 2 dataset from the ATLAS detector. In Journal of High Energy Physics, 2021, no. 11, art. no. 209. (2020: 5.810 - IF, Q1 - JCR, 0.998 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 1029-8479. Dostupné na: [https://doi.org/10.1007/JHEP11\(2021\)209](https://doi.org/10.1007/JHEP11(2021)209)
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- ADCA13 AAD, G. - ABBOTT, B. - ABBOTT, D.C. - ABED ABUD, A. - ABELING, K. - BRUNCKO, Dušan - MURÍN, Pavol - SMIEŠKO, Juraj - SOPKOVÁ, Filoména - STRÍŽENEC, Pavol - URBÁN, Jozef. Search for exotic decays of the Higgs boson into $b(b)\text{over-bar}$ and missing transverse momentum in pp collisions at root s=13 TeV with the ATLAS detector. In Journal of High Energy Physics, 2022, no. 1, art. no. 063.

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ADCA54

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ADCA119

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ADCA120

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ADCA979

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ADCA986

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RAJNÁK, Michal** - WU, Zan - DOLNÍK, Bystrík - PAULOVÍČOVÁ, Katarína - CIMBALA, Roman - KURIMSKÝ, Juraj - KOPČANSKÝ, Peter - SUNDEN, B. - WADSÖ, L. - TIMKO, Milan**. *Magnetic field effect on thermal, dielectric, and viscous properties of a transformer oil-based magnetic nanofluid. In Energies, 2019, vol. 12, no. 23, art. no. 4532. (2018: 2.707 - IF, Q3 - JCR, 0.612 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1996-1073. Dostupné na: <https://doi.org/10.3390/en12234532> (ICNf 2019 : International Conference on Nanofluids)*

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BADARUDIN, A. Heat transfer in turbulent nanofluids: Separation flow studies and development of novel correlations. In ADVANCED POWDER TECHNOLOGY. ISSN 0921-8831, AUG 2020, vol. 31, no. 8, p. 3120-3133., Registrované v: WOS

4. [1.1] SHTAIWI, M.H. - TAHBOUB, D.M. - EL-SHEIKH, A.H. - AL-HASHIMI, N.N. Magnetic solid-phase extraction of metal ions: Comparison of adding Schiff base to the extraction medium vs. magnetite modification with Schiff base. In JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING. APR 2020, vol. 8, no. 2., Registrované v: WOS

Príloha D

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

RNDr. Pavol Bobík, PhD.

Názov semestr. predmetu: Úvod do fyziky plazmy

Počet hodín za semester: 28

Názov katedry a vysokej školy: Prírodovedecká fakulta UPJŠ, Ústav fyzikálnych vied

doc. RNDr. Karol Flachbart, DrSc., akademik US Slovenska

Názov semestr. predmetu: Fyzikálne princípy lekárskej techniky

Počet hodín za semester: 24

Názov katedry a vysokej školy: Prírodovedecká fakulta UPJŠ, Ústav fyzikálnych vied

doc. RNDr. Slavomír Gabáni, PhD.

Názov semestr. predmetu: Fyzika vysokých tlakov

Počet hodín za semester: 12

Názov katedry a vysokej školy: Prírodovedecká fakulta UPJŠ, Ústav fyzikálnych vied

doc. RNDr. Zuzana Gažová, DrSc.

Názov semestr. predmetu: Biofyzika proteínov a supramolekulárnych komplexov

Počet hodín za semester: 28

Názov katedry a vysokej školy: Prírodovedecká fakulta UPJŠ, Ústav fyzikálnych vied

RNDr. Martin Gmitra, PhD.

Názov semestr. predmetu: Atomistické počítačové modelovanie materiálov

Počet hodín za semester: 28

Názov katedry a vysokej školy: Prírodovedecká fakulta UPJŠ, Ústav fyzikálnych vied

RNDr. Martin Gmitra, PhD.

Názov semestr. predmetu: Teória kondenzovaných látok

Počet hodín za semester: 56

Názov katedry a vysokej školy: Prírodovedecká fakulta UPJŠ, Ústav fyzikálnych vied

RNDr. Martin Gmitra, PhD.

Názov semestr. predmetu: Transportné vlastnosti tuhých látok

Počet hodín za semester: 28

Názov katedry a vysokej školy: Prírodovedecká fakulta UPJŠ, Ústav fyzikálnych vied

RNDr. Martin Gmitra, PhD.

Názov semestr. predmetu: Vybrané témy vo fyzike tuhých látok: aplikácie počítačovej fyziky

Počet hodín za semester: 28

Názov katedry a vysokej školy: Prírodovedecká fakulta UPJŠ, Ústav fyzikálnych vied

prof. Dr.h.c. RNDr. Michal Hnatič, DrSc.

Názov semestr. predmetu: Aplikácie kvantovej teórie poľa v súčasnej fyzike kondenzovaných látok

Počet hodín za semester: 26

Názov katedry a vysokej školy: Prírodovedecká fakulta UPJŠ, Ústav fyzikálnych vied

prof. Dr.h.c. RNDr. Michal Hnatič, DrSc.

Názov semestr. predmetu: Kvantová chromodynamika

Počet hodín za semester: 26

Názov katedry a vysokej školy: Prírodovedecká fakulta UPJŠ, Ústav fyzikálnych vied

prof. Dr.h.c. RNDr. Michal Hnatič, DrSc.

Názov semestr. predmetu: Kvantová teória poľa II

Počet hodín za semester: 39

Názov katedry a vysokej školy: Prírodovedecká fakulta UPJŠ, Ústav fyzikálnych vied

prof. Dr.h.c. RNDr. Michal Hnatič, DrSc.

Názov semestr. predmetu: Nerovnovážna štatistická fyzika

Počet hodín za semester: 26

Názov katedry a vysokej školy: Prírodovedecká fakulta UPJŠ, Ústav fyzikálnych vied

RNDr. Jozef Kačmarčík, PhD.

Názov semestr. predmetu: Termodynamika supravodičov

Počet hodín za semester: 12

Názov katedry a vysokej školy: Prírodovedecká fakulta UPJŠ, Ústav fyzikálnych vied

RNDr. Ivan Králik, CSc.

Názov semestr. predmetu: Metódy detekcie a experimenty na veľkých urýchľovačoch

Počet hodín za semester: 18

Názov katedry a vysokej školy: Prírodovedecká fakulta UPJŠ, Ústav fyzikálnych vied

RNDr. Ivan Králik, CSc.

Názov semestr. predmetu: Úvod do štandardného modelu

Počet hodín za semester: 6

Názov katedry a vysokej školy: Prírodovedecká fakulta UPJŠ, Ústav fyzikálnych vied

RNDr. Marián Mihalík, CSc.

Názov semestr. predmetu: Fyzika vysokých tlakov

Počet hodín za semester: 6

Názov katedry a vysokej školy: Prírodovedecká fakulta UPJŠ, Ústav fyzikálnych vied

MUDr. Andrey Musatov, DrSc.

Názov semestr. predmetu: Molekulárne mechanizmy oxidatívneho stresu v bunkách

Počet hodín za semester: 28

Názov katedry a vysokej školy: Prírodovedecká fakulta UPJŠ, Ústav fyzikálnych vied

doc. RNDr. Ján Nemčík, CSc.

Názov semestr. predmetu: Aplikovaná kvantová chromodynamika při vysokých energiích -
magisterské studium

Počet hodín za semester: 30

Názov katedry a vysokej školy: České vysoké učení technické v Praze, Česká republika, Katedra fyziky

doc. RNDr. Ján Nemčík, CSc.

Názov semestr. predmetu: elektřina a magnetismus

Počet hodín za semester: 60

Názov katedry a vysokej školy: České vysoké učení technické v Praze, Česká republika, Katedra fyziky

RNDr. Ivan Škorvánek, CSc.

Názov semestr. predmetu: Magnetické materiály s význačnými vlastnosťami

Počet hodín za semester: 14

Názov katedry a vysokej školy: Prírodovedecká fakulta UPJŠ, Ústav fyzikálnych vied

RNDr. Ivan Škorvánek, CSc.

Názov semestr. predmetu: Nanomateriály a nanotechnológie

Počet hodín za semester: 10

Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky TUKE, Katedra Fyziky

RNDr. Natália Tomašovičová, CSc.

Názov semestr. predmetu: Experimentálne metódy v materiálových vedách I

Počet hodín za semester: 2

Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky TUKE, Katedra fyziky

RNDr. Natália Tomašovičová, CSc.

Názov semestr. predmetu: Kvapalné kryštály

Počet hodín za semester: 24

Názov katedry a vysokej školy: Prírodovedecká fakulta UPJŠ, Ústav fyzikálnych vied

RNDr. Natália Tomašovičová, CSc.

Názov semestr. predmetu: Spektroskopické metódy, 2. stupeň

Počet hodín za semester: 8

Názov katedry a vysokej školy: Prírodovedecká fakulta UPJŠ, Ústav fyzikálnych vied

RNDr. Zuzana Vargaštoková, PhD.

Názov semestr. predmetu: Termodynamika supravodičov

Počet hodín za semester: 14

Názov katedry a vysokej školy: Prírodovedecká fakulta UPJŠ, Ústav fyzikálnych vied

RNDr. Hana Vargová, PhD.

Názov semestr. predmetu: Numerické metódy a modelovanie

Počet hodín za semester: 26

Názov katedry a vysokej školy: Prešovská univerzita v Prešove, Fakulta fyziky, matematiky a techniky

Semestrálne cvičenia:

Ing. Július Bačkai

Názov semestr. predmetu: Fyzika 1

Počet hodín za semester: 52

Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky TUKE, Katedra Fyziky

doc. RNDr. Slavomír Gabáni, PhD.

Názov semestr. predmetu: Experimentálne metódy v materiálových vedách

Počet hodín za semester: 4

Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky TUKE, Katedra Fyziky

doc. RNDr. Ján Nemčík, CSc.

Názov semestr. predmetu: elektřina a magnetismus

Počet hodín za semester: 30

Názov katedry a vysokej školy: České vysoké učení technické v Praze, ČR, Katedra fyziky

Zoltan Tajkov, PhD.

Názov semestr. predmetu: Computational Studies of Electron Systems

Počet hodín za semester: 28

Názov katedry a vysokej školy: Eötvös Loránt University Budapest, Maďarsko, Katedra teoretickej fyziky

RNDr. Natália Tomašovičová, CSc.

Názov semestr. predmetu: Experimentálne metódy v materiálových vedách I

Počet hodín za semester: 2

Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky TUKE, Katedra fyziky

RNDr. Hana Vargová, PhD.

Názov semestr. predmetu: Numerické metódy a modelovanie

Počet hodín za semester: 26

Názov katedry a vysokej školy: Prešovská univerzita v Prešove, Fakulta fyziky, matematiky a techniky

Semináre:

RNDr. Ivan Škorvánek, CSc.

Názov semestr. predmetu: Nanomateriály a nanotechnológie

Počet hodín za semester: 10

Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky TUKE, Katedra Fyziky

Terénne cvičenia:

Individuálne prednášky:

Ing. Pavel Diko, DrSc., akademik US Slovenska

Názov semestr. predmetu: Skenovacia elektrónová mikroskopia a mikroanalýza EDS, WDS, EBSD

Počet hodín za semester: 4

Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky TUKE, Katedra fyziky

Príloha E**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
Bulharsko	Zuzana Bednáriková	4				
	Diana Fedunová	4				
	Zuzana Gažová	4				
Česko			Peter Kopčanský	4	Martina Koneracká	3
			Peter Kopčanský	4	Peter Kopčanský	4
			Peter Kopčanský	4	Milan Timko	4
			Milan Timko	4	Vlasta Závašová	3
			Milan Timko	4		
			Milan Timko	4		
Francúzsko					Martin Gmitra	6
					Jozef Kačmarčík	10
					Peter Kopčanský	6
					Milan Timko	6
Luxembursko					Natália Tomašovičová	4
Maďarsko	Peter Kopčanský	3			Dušan Gábor	1
	Peter Kopčanský	1			Martin Gmitra	1
	Jana Kubacková	7			Maksym Karpets	6
	Jana Kubacková	3			Filip Košuth	1
	Dmytro Miakota	15			Filip Košuth	43
	Pavol Szabó	11			Oleksandr Onufriienko	1
	Pavol Szabó	10			Pavol Szabó	1
	Milan Timko	3			Zoltan Tajkov	7
	Milan Timko	1				

	Natália Tomašovičov á	3				
	Zoltán Tomori	3				
Nemecko	Július Bačkai	15			Maksym Karpets	6
	Karol Flachbart	5			Ravneet Kaur	14
	Slavomír Gabáni	12				
	Matúš Orendáč	12				
	Gabriel Pristáš	5				
	Katarína Šipošová	23				
Nórsko					Július Bačkai	4
					Karol Flachbart	4
Poľsko	Marián Mihalik	5			Maksym Karpets	3
					Peter Kopčanský	5
					Peter Kopčanský	3
					Peter Kopčanský	3
					Milan Timko	5
					Milan Timko	3
					Milan Timko	3
Portugalsko			Peter Kopčanský	11		
			Milan Timko	11		
Rakúsko	Július Bačkai	3				
	Karol Flachbart	3				
	Slavomír Gabáni	3				
	Oleksandr Onufrienko	3				
	Gabriel Pristáš	3				
Rumunsko					Peter Kopčanský	3
					Milan Timko	3
Srbsko			Martina Koneracká	5		

			Martina Kubovčíková	5		
			Vlasta Závašová	5		
Španielsko			Peter Kopčanský	7		
			Milan Timko	7		
Švajčiarsko					Dominik Babál	38
					Peter Kaliňák	24
					Peter Kaliňák	20
					Peter Kaliňák	23
					Ivan Králik	32
					Marián Krivda	18
					Marián Krivda	12
					Ingrid Kulťková	16
					Richard Pinčák	7
					Richard Pinčák	14
					Filoména Sopková	26
					Filoména Sopková	34
					Miloslav Straka	13
					Miloslav Straka	16
					Pavol Stríženec	19
					Pavol Stríženec	24
					Pavol Stríženec	31
					Pavol Stríženec	23
					Pavol Stríženec	7
					Pavol Stríženec	33
					Jozef Urbán	12
Taiwan					Katarína Šipošová	64
Počet vyslaní spolu	26	164	13	75	52	672

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

Krajina	D r u h d o h o d y					
	MAD, KD, VTS		Medziústavná		Ostatné	
	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní
Česko			Ivo Šafařík	4	Jiří Prchal	5
			Ivo Šafařík	2	Ladislav Skrbek	4
			Ivo Šafařík	4		
			Ivo Šafařík	3		
			Ivo Šafařík	2		
			Ivo Šafařík	4		
Francúzsko					Christophe Marcenat	16
Maďarsko	Ameer R.K. Nassrah	8			Tosson Elalaily	5
	Gaszton Vizsnyiczai	4				
	Gergely Iványi	4				
	Lórand Kelemen	4				
	Nándor Éber	8				
	Tibor Tóth-Katona	8				
	Zoltán Osváth	11				
	Zoltán Osváth	12				
Nemecko	Konrad Siemensmeyer	6			Erwin Schuberth	5
	Martin Humeník	10			Jose Martinez Castro	35
	Martin Humeník	9			Stanislaw Galeski	5
	Martin Humeník	9			Tobias Wichmann	35
Poľsko	Aleksandra Pacanowska	3				
	Jedrzej Kobylarczyk	3				
	Robert Pelka	3				
	Wojciech Sas	3				
Portugalsko					Olena Fertman	14
					Olena Fertman	11
Španielsko			José	5	Manuel	5

			Fernando M. Lopes Mariano		Arrayas	
			Viktor Petrenko	6		
Taliansko					Mauro Giovannini	5
Ukrajina					Vitaliy Bilanych	30
					Vitaliy Bilanych	31
					Vitaliy Bilanych	30
Počet prijatí spolu	16	105	8	30	15	236

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

Krajina	Názov konferencie	Meno pracovníka	Počet dní	
Belgicko	COST ALW	Zuzana Bednáriková	3	
	II PhasAGE-VIB	Zuzana Bednáriková	3	
Česko	EPFC	Marián Sedlák	6	
	Struktura 2022	Jozef Bednarčík	6	
	TEPA 2022	Ronald Langer	5	
Fínsko	TQM	Peter Skyba	3	
Francúzsko	FERMI SCES 2022	Július Bačkai	7	
	FSMSANSSM	Maksym Karpets	3	
	IAA, IAC	Ján Baláž	7	
	ISBB 2022	Karol Flachbart	6	
		Slavomír Gabáni	6	
		SMM25	Branislav Kunca	5
Holandsko		Ivan Škorvánek	5	
	RISE 2020	Andrej Musatov	4	
		Katarína Šipošová	4	
	SCES 2022	Július Bačkai	6	
		Matúš Orendáč	6	
Chorvátsko	ESWW 2022	Šimon Mackovjak	7	
		Matej Varga	7	
	FSSB 2022	Pavol Szabó	10	
India	AMDP 2022	Peter Kopčanský	9	
		Milan Timko	9	
Japonsko	LT29	Marcel Človečko	8	
		Kamil Goliáš	8	
		Jozef Kačmarčík	11	
		Oleksandr Podopryhora	8	
		Zuzana Vargaeštoková	11	
		ULT 2022	Marcel Človečko	7
		Kamil Goliáš	7	
	Oleksandr Podopryhora	7		
Japonsko (online)	LT29	Karol Flachbart	11	
		Slavomír Gabáni	11	
		Gabriel Pristáš	11	

		Pavol Szabó	11
Kanada	M2S 2022	Karol Flachbart	9
		Peter Samuely	9
Lotyšsko	ADAM9	Zuzana Bednáriková	4
		Miroslav Gančár	4
		Zuzana Gažová	4
Maďarsko	EACC 2022	Dmytro Miakota	6
	Workshop ALICE	Ingrid Kuľková	4
	Workshop V4SD 2022	Šimon Mackovjak	2
Nemecko	Cryocourse 2022	Kamil Goliáš	13
		Filip Košuth	13
		Oleksandr Podopryhora	13
	ESA SWE 2022	Šimon Mackovjak	5
	IMPCW	Šimon Mackovjak	5
Poľsko	PAMIR 2022	Ivan Škorvánek	6
		Natália Tomašovičová	6
	PCCG 2022	Peter Samuely	6
	PCG2DM	Martin Gmitra	5
	WSWQA	Peter Kopčanský	3
		Milan Timko	3
Rumunsko	M-ERA.Net ICM	Karol Flachbart	3
Srbsko	20thYRC	Iryna Khmara	5
Španielsko	QMDN	Marek Kuzmiak	8
		Pavol Szabó	8
Švajčiarsko	ALICE collaboration week	Marián Krivda	6
Taliansko	CYCLONET YTIP 2019	Miroslav Gančár	39
USA	BPS 2022	Barbora Borovská	9
	MLH	Šimon Mackovjak	9
		Matej Varga	9
Veľká Británia	ICSCAMC	Matúš Molčan	6
Vietnam	FMS 2022	Ivan Škorvánek	9
Spolu	40	64	469

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

Skratky použité v tabuľke C:

20thYRC - 20th Young Researchers' Conference Material Science and Engineering
ADAM9 - 9th Scandinavian and Baltic Conference, Amyloid Diseases and Amyloid Mechanisms
ALICE collaboration week - ALICE collaboration week
AMDP 2022 - International Conference on Advances in Molecular Diagnostics and Precision Medicine (AMDP-2022) in Association with Cancercon 2022
BPS 2022 - 66th Annual Biophysical Society Meeting 2022
COST ALW - COST Academy Leadership workshop
Cryocourse 2022 - Cryocourse 2022
CYCLONET YTIP 2019 - CYCLONET YOUNG INVESTIGATOR TRAINING PROGRAM 2019
EACC 2022 - European Student Colloid Conference 2022
EPFC - European Polymer Federation Congress
ESA SWE 2022 - ESA SWE Service Network Workshop 2022
ESWW 2022 - 18th European Space Weather Week
FERMI SCES 2022 - FERMI Strongly Correlated Electron Systems 2022

FMS 2022 - 6th International Symposium on Frontiers in Materials Science 2022
FSMSANSSM - French-Swiss Meeting SANS for Soft Matter
FSSB 2022 - 10th Conference From Solid State to BioPhysics 2022
IAA, IAC - International Academy of Astronautics-Academy day, International Astronautics Congress
ICSCAMC - 13th International Conference on the Scientific and Clinical Applications of Magnetic Carriers
II PhasAGE-VIB - II PhasAGE-VIB International Conference: Biomolecular Condensates in Biology and Disease
IMPCW - Workshop in Ionosphere Monitoring and Prediction Center
ISBB 2022 - 21st International Symposium on Boron, Borides and Related Materials 2022
LT29 - 29th International Conference on Low Temperature Physics
M-ERA.Net ICM - M-ERA.Net "Testimonies" International Collaboration Meeting
M2S 2022 - Conference on Materials and Mechanisms of Superconductivity 2022
MLH - Machine Learning in Heliophysics
PAMIR 2022 - 12th PAMIR International Conference on Fundamental and Applied MHD 2022
PCCG 2022 - Polish Conference on Crystal Growth 2022
PCG2DM - 7th Polish Conference "Graphene and other 2D materials"
QMDN - Quantum materials and devices at the nanoscale
RISE 2020 - Research and Innovation Staff Exchange H2020-MSCA-RISE-2020 workshop
SCES 2022 - International Conference on Strongly Correlated Electron Systems 2022
SMM25 - 25th Soft Magnetic Materials Conference
Struktura 2022 - Struktura 2022
TEPA 2022 - Thunderstorms and Elementary Particle Acceleration 2022
TQM - Topological Quantum Matter Seminar
ULT 2022 - International Conference on Ultra Low Temperature Physics 2022
Workshop ALICE - Tenth Annual ALICE Tier-1/Tier-2 workshop
Workshop V4SD 2022 - Workshop V4 Space Day 2022
WSWQA - 17th Workshop on Molecular Acoustics, Relaxation and Calorimetric Methods, 50th Jubilee Winter School on Wave and Quantum Acoustics

Príloha F

Vedecko-popularizačná činnosť pracovníkov organizácie SAV

Meno	Spoluautori	Typ ¹	Názov	Miesto zverejnenia	Dátum alebo počet za rok
RNDr. Andrea Antošová, PhD.		RO	Noc výskumníkov, Rádio Lumen	https://lumen.sk/archiv-play/159249	30.9.2022
Ing. Július Bačkai	Marek Kuzmiak	iné	DOD TUKE	Knižnica TUKE, Košice	12.10.2022
Ing. Július Bačkai	Marek Kuzmiak	iné	PRO EDUCO - medzinárodný veľtrh vzdelávania	Kultúrpark, Košice	30.11.2022
Ing. Július Bačkai	Marek Kuzmiak	PB	Vedecký brloh	Kino Úsmev, Košice	30.7.2022
Ing. Ján Baláž, PhD.		IN	Slovensko má nového riadneho člena Medzinárodnej astronomickej akadémie	https://vedanadosah.cvtsr.sk/priroda/vesmir/slovensko-ma-noveho-riadneho-clena-medzinarodnej-astronomickej-akademie/	29.9.2022
Ing. Ján Baláž, PhD.		IN	Vesmírny konštruktér Ján Baláž sa stal riadnym členom Medzinárodnej astronomickej akadémie, je v nej aj Elon Musk	https://zive.aktuality.sk/clanok/fhWiDgQ/vesmirny-konstrukter-jan-balaz-sa-stal-riadnym-clenom-medzinarodnej-astronomickej-akademie-je-v-nej-aj-elon-musk	28.9.2022
Ing. Ján Baláž, PhD.	Andrea Nozdrovická, Katarína Gáliková	IN	Webbov teleskop má dovidieť do začiatku nášho vesmíru	Aktuality SAV. https://www.sav.sk/?lang=sk&doc=services-news&source_no=20&news_no=10122	14.1.2022
Ing. Ján Baláž, PhD.	Ján Mečiar	TV	Slovák v medzinárodnej astronomickej akadémii IAA	TV JOJ24 https://joj24.noviny.sk/24-video/713553-slovaci-vyvijajuci-biosenzory-a-prvy-slovak-v-medzinarodnej-astronomickej-akademii-iaa-aj-to-su-tem	23.10.2022
Ing. Ján Baláž, PhD.	Jozef Demeter, Pavol Bobík	TV	Návrat na Mesiac	TV Markíza http://space.saske.sk/results/popul/2022-11-16-markiza.mp4	16.11.2022
Ing. Ján Baláž, PhD.	Kata Martinková	RO	Nočná pyramída	RTVS SRo https://www.rtvs.sk/radio/archiv/11436/1911887	20.10.2022
Ing. Ján Baláž, PhD.	Kata Martinková, Jindřich Bardon	TV	Nočná pyramída	RTVS-STV3 http://space.saske.sk/results/popul/2022-11-13-stv3.mp4	13.11.2022
Ing. Ján Baláž, PhD.	Katarína Gáliková	IN	Slovensko má nového riadneho člena Medzinárodnej astronomickej akadémie	Astro Novinky.eu https://www.astro-novinky.eu/index.php/2022/09/30/2047/	30.9.2022
Ing. Ján Baláž, PhD.	Ľubica	TV	Necelebrity	RTVS-STV2	14.2.2022

	Drutarovská, Miroslav Vádasy			https://www.tv-archiv.sk/ne-celebrity/jan-balaz-pondelok-14-02-2022-09-05	
Ing. Ján Baláž, PhD.	Lukáš Mano	RO	Historický náraz sondy do asteroidu	RTVS-SRO https://slovensko.rtvs.sk/clanky/spolocnost/303871/historicky-naraz-sondy-do-asteroidu	26.9.2022
Ing. Ján Baláž, PhD.	Lukáš Mano	RO	Vesmírny výskum a Slovensko sú si opäť trošku bližšie	RTVS - Rádio Slovensko	1.12.2022
Ing. Ján Baláž, PhD.	Lukáš Mano, Miroslav Šmelko, Rudolf Gális	RO	Kontakty: Vesmírny teleskop Jamesa Webba - čaká nás obdobie objavov?	RTVS - SRO https://www.rtvs.sk/radio/archiv/11380/1723333	13.1.2022
Ing. Ján Baláž, PhD.	Matúš Beňo	IN	Slovak space engineer receives one of the highest astronautics awards (interview)	Slovak Spectator: https://spectator.sme.sk/c/23029306/slovak-space-engineer-receives-one-of-the-highest-astronautics-awards-interview.html	10.10.2022
Ing. Ján Baláž, PhD.	Matúš Beňo, Ján Svoreň	IN	Hubblv ďalekohľad ohromoval zisteniami o vesmíre. Webbov môže byť ešte lepší	Veda na dosah: https://vedanadosah.cvtisr.sk/priroda/vesmir/hubblv-dalekohlad-ohromoval-zisteniami-o-vesmire-webbov-moze-byt-este-lepsi/	19.1.2022
Ing. Ján Baláž, PhD.	Milan Kolcun, Peter Béreš	iné	Bez šepkára - talkshow	Štátne divadlo Košice https://www.sdke.sk/sk/divadlo/bez-sepkara	3.11.2022
Ing. Ján Baláž, PhD.	Otakar Horák, Juraj Tóth, Peter Gomory, Marek Husárik, Jiří Šilha	TL	Koniec Slovenska ako „čiernej diery“ na mape vesmírnych aktivít. Anketa o prínose členstva v Európskej vesmírnej agentúre	Denník N https://dennikn.sk/2962668/	9.8.2022
Ing. Ján Baláž, PhD.	Otakar Horák, Pavol Šajgalík, Boris Klempa, Dominika Fričová, Richard Kollár, Pavol Čekan, Samuel Kováčik, et al.	TL	Jadrová fúzia, umelá inteligencia či upravené vakcíny. Slovenskí vedci hodnotia prelomové objavy a výskumy roku 2022	Denník N https://dennikn.sk/3159982/	22.12.2022
Ing. Ján Baláž, PhD.	Peter Dudovič	RO	Marcové knihy	Rádio Košice https://www.radiokosice.sk/marcove-knihy-07-03-jan-balaz	8.3.2022
Ing. Ján Baláž, PhD.	Peter Dudovič, Samuel Kováčik	RO	Teleskop Jamesa Webba	Rádio Košice https://www.radiokosice.sk/tema-8-2-vesmirny-dalekohlad-jamesa-webba	8.2.2022
RNDr. Zuzana	Andrea	iné	Noc výskumníkov, stánok "Kde sa	https://www.nocvysku	30.9.2022

Bednáriková, PhD.	Antošová, Miroslav Gančár, Zuzana Gažová, Danka Švarcbergerová		nachádzajú proteíny?"	mnikov.sk/program/sta nok/oc-optima-košice/ 456.html	
RNDr. Zuzana Bednáriková, PhD.	Andrea Antošová, Oľga Parmar	PB	Bielkoviny u prvákov	web ZŠ Belehradská	13.5.2022
RNDr. Pavol Bobík, PhD.		TV	Mena vzdialených svetov, TV Noviny Markíza	<a href="https://tvnoviny.sk/vid
ea/91-televizne-noviny
/reportaze/40819-mena
-vzdialenych-svetov">https://tvnoviny.sk/vid ea/91-televizne-noviny /reportaze/40819-mena -vzdialenych-svetov	20.10.2022
doc. RNDr. Slavomír Gabáni, PhD.		PB	Deň sv. Edity Steinovej,	Gymnázium sv. Edity Steinovej	12.10.2022
doc. RNDr. Slavomír Gabáni, PhD.	Július Bačkai, Kamil Goliaš, Oleksandr Podopryhora, Gabriel Pristáš	iné	Noc výskumníkov, stánok "Zábava s vákuom"	OC Optima, Košice	30.9.2022
prof. Dr.h.c. RNDr. Michal Hnatič, DrSc.		PB	Seminár z teoretickej fyziky, Jerevan, Arménsko	<a href="https://www.youtube.c
om/watch?v=x6DGCQ
wFMpC">https://www.youtube.c om/watch?v=x6DGCQ wFMpC	25.1.2022
RNDr. Jozef Kačmarčík, PhD.		PB	E ako Experiment	Liečebno-výchovné sanatórium, Barca	1.12.2022
RNDr. Jozef Kačmarčík, PhD.		PB	Nízke teploty a supravodivosť	Gymnázium Opatovská cesta	4.5.2022
RNDr. Jozef Kačmarčík, PhD.	Marcel Človečko, Filip Košuth, Marek Kuzmiak	iné	Noc výskumníkov, stánok "Supravodivosť a nízke teploty"	OC Optima, Košice	30.9.2022
RNDr. Jozef Kačmarčík, PhD.	Zuzana Vargaeštoková	PB	Deň s vedou	ZŠ Budimír	31.5.2022
RNDr. Ivan Králik, CSc.		PB	A Large Hadron Collider Experiment alebo No tak im niečo povedz	PF UPJŠ Košice, popularizačný seminár pre študentov bakalárskeho štúdia	26.4.2022
RNDr. Ivan Králik, CSc.		PB	K počiatkom Vesmíru: cesta tam a späť	18th International Masterclasses 2022, Hands on Particle Physics, UPJŠ Košice	30.3.2022
RNDr. Ivan Králik, CSc.		PB	Štúdium QGP v laboratórnych podmienkach	TUKE Košice, popularizačný seminár pre študentov a doktorandov FEI TUKE	30.7.2022
RNDr. Ivan Králik, CSc.		PB	Začalo to svetlom na nebi	Tabačka Kulturfabrik Košice, Záverečná časť cyklu prednášok k príležitosti 10. výročia objavu Higgsovho bozónu	19.10.2022
Ing. Ingrid Kul'ková		PB	Košice Grid	Katedre kybernetiky a umelej inteligencie, FEI, TUKE	30.7.2022
Ing. Bc. Marek		PB	Piknik na TUKE	Košice, vonkajší areál	25.5.2022

Kuzmiak				TUKE	
Ing. Bc. Marek Kuzmiak		PB	Úvod do inžinierstva	Košice, KF FEI TUKE	6.12.2022
RNDr. Šimon Mackovjak, PhD.		TV	JOJ 24 podcast / Slovensko a Európska vesmírna agentúra	https://plus.noviny.sk/24podcast/695074-slovensko-a-europska-vesmirna-agentura	17.7.2022
RNDr. Šimon Mackovjak, PhD.		TL	Kozmické počasie nevieme predpovedať rovnako ako pozemské. Poznať ho je pritom rovnako dôležité	https://zive.aktuality.sk/clanok/SZY3ZgM/kozmicke-pocasio-nevieme-predpovedat-rovna-ko-ako-pozemske-poznat-ho-je-pritom-rovna-ko-dolezite-rozhov	18.8.2022
RNDr. Šimon Mackovjak, PhD.		PB	LF TUKE / Kozmický výskum v Košiciach	https://lf.tuke.sk/wps/portal/lf/pre-verejnost/spravy/esa-pozvanka	7.11.2022
RNDr. Šimon Mackovjak, PhD.		PB	Noc výskumníkov, prednáška "Kozmická bezpečnosť"	OC Optima, Košice	30.9.2022
RNDr. Šimon Mackovjak, PhD.		PB	PF UPJŠ / DAM: Machine Learning - 4th pillar of space science	https://dam.science.upjs.sk/	18.5.2022
RNDr. Šimon Mackovjak, PhD.		TV	Regina / Je kozmos bezpečný?	https://www.rtvsk.sk/tel-evizia/archiv/14356/367068#476	9.11.2022
RNDr. Šimon Mackovjak, PhD.		PB	Slovakia Tech / Space projects of world importance from Košice	https://www.slovakiatech.sk/speakers?invst=4&invsp=3622473	21.9.2022
RNDr. Šimon Mackovjak, PhD.		iné	Vedecký kuriér - Noc výskumníkov 2022	https://www.nocvyskumnikov.sk/program/mesto-vedecky-kurier.html	30.9.2022
RNDr. Šimon Mackovjak, PhD.		RO	Vedecký podcast SAV	https://www.sav.sk/?lang=sk&doc=services-news&source_no=20&news_no=10309	22.4.2022
RNDr. Šimon Mackovjak, PhD.	Slovak Space Office	PB	Demoday - Slovenský vesmírny inkubátor	https://www.sario.sk/sk/novinky/1-kolo-slovenskeho-vesmirneho-inkubatora-prinieslo-unikatne-startupy	9.6.2022
RNDr. Šimon Mackovjak, PhD.	Slovak Space Office	iné	Hackathon Act In Space v Košiciach	https://uvptechnicom.sk/event/actinspace-hackathon/	18.11.2022
Ing. Matúš Molčan, PhD.	Karpets, Kubovčíková, Miakota, Paulovičová, Zolochovska	iné	Noc výskumníkov, stánok "Magnetická kvapalina"	OC Optima, Košice	30.9.2022

prof., RNDr. Peter Samuely, DrSc., akademik US Slovenska		RO	rozhovor o fyzike nízkych teplôt	Rádio Regina	10.8.2022
prof., RNDr. Peter Samuely, DrSc., akademik US Slovenska	Dr. Jozef Kačmarčík	PB	popurazizačná prednáška Prečo budú vlaky lietať, Detská univerzita Komenského	Radošinské náivné divadlo Bratislava	10.8.2022
RNDr. Peter Skyba, DrSc.		PB	Vedecká kaviareň	Košice	27.9.2022
RNDr. Filoména Sopková, PhD.		PB	10. výročie objavu Higgsovho bozónu: "Ako sa dostať do CERN-u"	Tabačka Kulturfabrik, Košice	5.10.2022
Ing. Miloslav Straka		PB	Sieťová architektúra pre gridové počítanie v podmienkach UPJŠ v rámci aktivít v Dubne	UPJŠ Košice Centrum Aplikovanej Informatiy	3.2.2022
Ing. Miloslav Straka	Miloslav Straka	PB	Gridové technológie	https://www.tabacka.sk/program/gridove-technologie-a-ako-sa-dostat-do-cern-u/	5.10.2022
RNDr. Pavol Stríženec, CSc.		PB	10 rokov s Higgsovým bozónom	Tabačka Košice, https://www.youtube.com/watch?v=TZuxfhCkX5E	14.9.2022
Mgr. Pavol Szabó, CSc.		PB	Deň detí v divadle Thália	Divadlo Thália, Košice	30.6.2022
Mgr. Pavol Szabó, CSc.		IN	dokumentárny film v cykle "Neviditeľná energia"	https://www.youtube.com/watch?v=SraR16isz9g&t=596s	2022
Mgr. Pavol Szabó, CSc.		RO	Fyzika nízkych teplôt v Košiciach, rozhovor pre reláciu Országjáró	Kossuth Rádió, Budapest	7.10.2022
Mgr. Pavol Szabó, CSc.		PB	Noc výskumníkov 2022 - koordinácia akcie	OC Optima, Košice	30.9.2022
Mgr. Pavol Szabó, CSc.		RO	Vedec a umelec, rozhovor s Pavlom a Ottom Szabom v rámci cyklu prednášok programu: Na východe	Rádio Pátria	9.3.2022
RNDr. Zuzana Vargaestoková, PhD.		PB	Deň sv. Edity Steinovej	Gymnázium sv. Edity Steinovej	12.10.2022
RNDr. Zuzana Vargaestoková, PhD.	J. Kačmarčík	PB	Deň s vedou	ZŠ Budimír	31.5.2022
RNDr. Šimon Mackovjak, PhD.		PB	Realizácia meetupov SPACE::TALK	http://www.space-lab.sk/space-talk	6
prof., RNDr. Peter Samuely, DrSc., akademik US Slovenska		TL	príspevky dp Správ SAV	Akadémia / Správy SAV - časopis Slovenskej akadémie vied	4

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