

Ústav experimentálnej fyziky SAV



Správa o činnosti organizácie SAV za rok 2018

Košice
január 2019

Obsah osnovy Správy o činnosti organizácie SAV za rok 2018

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PRÍLOHY

- A Zoznam zamestnancov a doktorandov organizácie k 31.12.2018*
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1. Základné údaje o organizácii

1.1. Kontaktné údaje

Názov: Ústav experimentálnej fyziky SAV

Riaditeľ: Doc. RNDr. Peter Kopčanský, CSc.

Zástupca riaditeľa: RNDr. Alena Juríková, CSc.

Vedecký tajomník: RNDr., Ing. Katarína Šipošová, PhD.

Predseda vedeckej rady: RNDr. Pavol Bobík, PhD

Člen snemu SAV: Doc. RNDr. Karol Flachbart, DrSc.

Člen Predsedníctva SAV: Prof. RNDr. Peter Samuely, DrSc.

Adresa: Watsonova 47, 040 01, Košice

<http://uef.saske.sk>

Tel.: 055/7922201

Fax:

E-mail: sekr@saske.sk

Názvy a adresy detašovaných pracovísk:

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

Vedúci detašovaných pracovísk:

- **Laboratórium kozmickej fyziky na Lomnickom štíte**
Prof. Ing. Karel Kudela, DrSc.

Typ organizácie: Príspevková od roku 2016

1.2. Údaje o zamestnancoch

Tabuľka 1a Počet a štruktúra zamestnancov

Štruktúra zamestnancov	K	K		K do 35 rokov		F	P	T
		M	Ž	M	Ž			
Celkový počet zamestnancov	132	81	50	10	12	124	104.9	68.02
Vedeckí pracovníci	84	56	28	6	7	76	66.1	62.02
Odborní pracovníci VŠ (výskumní a vývojoví zamestnanci ¹)	16	9	6	3	5	16	8.96	5.2
Odborní pracovníci VŠ (ostatní zamestnanci ²)	9	3	6	0	0	9	8.83	0.3
Odborní pracovníci ÚS	9	4	5	0	0	9	8.24	0.5
Ostatní pracovníci	14	9	5	1	0	14	12.77	0

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

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

K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2018 (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 31.12.2018 (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

M, Ž – muži, ženy

Tabuľka 1b Štruktúra vedeckých pracovníkov (kmeňový stav k 31.12.2018)

Rodová skladba	Pracovníci s hodnosťou				Vedeckí pracovníci v stupňoch		
	DrSc.	CSc./PhD.	prof.	doc.	I.	II.a.	II.b.
Muži	11	46	5	6	19	27	10
Ženy	0	28	0	2	0	17	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
Muži	1	4	4	5	4	5	10	13	8
Ženy	4	3	3	3	5	5	2	0	0

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2018

	Kmeňoví zamestnanci		Vedeckí pracovníci		Riešitelia projektov	
	A	B	A	B	A	B
Muži	52.5	52.1	52.0	51.5	54.4	52.9
Ženy	43.1	44.5	41.6	42.2	43.2	44.5
Spolu	48.9	49.1	48.5	48.1	50.8	50.2

A - Prepočet bez zohľadnenia úväzkov zamestnancov

B - Prepočet so zohľadnením úväzkov zamestnancov

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

RNDr. Pavol Bobík, PhD. – Predseda Vedeckej Rady (Odd. kozmickej fyziky)

RNDr. Pavol Farkašovský, CSc. (Odd. teoretickej fyziky)

RNDr. Zuzana Gažová, CSc. (Odd. biofyziky)

Ing. Martina Koneracká, CSc. (Odd. fyziky magnetických javov)

RNDr. Ivan Králik, CSc. (Odd. subjadrovej fyziky)

Prof. RNDr. Peter Samuely, DrSc. (Odd. fyziky nízkych teplôt)

RNDr. Ivan Škorvánek, CSc. (Lab. Nanomateriálov a Aplikovaného Magnetizmu)

RNDr. Milan Timko, CSc. (Odd. fyziky magnetických javov)

RNDr. Mária Zentková, CSc. (Odd. fyziky magnetických javov)

Externí členovia

Prof. RNDr. Jaroslav Briančin, CSc. – Ústav geotechniky SAV, Košice

Prof. RNDr. Ján Dusza, DrSc. – Ústav materiálového výskumu SAV, Košice

Prof. RNDr. Peter Kollár, DrSc. – Katedra fyziky kondenzovaných látok, PF UPJŠ

Prof. Ing. Martin Orendáč, CSc. – Katedra fyziky kondenzovaných látok, PF UPJŠ

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

Prvé stretnutie IAB na pôde ÚEF SAV sa uskutočnilo 5.-6.11.2018.

2. Vedecká činnosť

2.1. Domáce projekty

Tabuľka 2a Domáce projekty riešené v roku 2018

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	25	5	177 555	177 555			11 026	
2. Projekty APVV	6	6	-	-	265 302,63	265 302,63	-	102 505,64
3. Projekty OP ŠF	0	0	-	-	-	-	-	-
4. Projekty SASPRO	0	0	-	-	-	-	-	-
5. Projekty centier excelentnosti SAV	0	0	-	-	-	-	-	-
6. Iné projekty (FM EHP, ŠPVV, Vedecko-technické projekty, ESF, na objednávku rezortov a pod.)	0	0	-	-	-	-	-	-

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

Tabuľka 2b Domáce projekty podané v roku 2018

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2018	-	4	2
2. Projekty výziev OP ŠF podané r. 2018	Bratislava		
	Regióny	2	

Projekt APVV-18-0160 **Nanokvapaliny v elektrotechnike (NANOELLEN)** 2019-2023. Zodpovedný riešiteľ: Rajňák Michal

Projekt APVV-18-0279 **Príprava, charakterizácia a magnetické vlastností multiferoických materiálov s ortorombickou kryštálovou štruktúrou.** 2019-2023. Zodpovedný riešiteľ: Mihalik Marian

Projekt APVV-18-0284 **Multifunkčné inhibítory poly/peptidov spojených s Alzheimerovou chorobou**. 2019-2023. Zodpovedný riešiteľ: Gažová Zuzana

Projekt APVV-18-0295 **Optická mikro-manipulácia nádorových buniek pre štúdium medzibunkových transportných a signalizačných procesov**. 2019-2023. PI – Univerzita Pavla Jozefa Šafárika; Zodpovedný riešiteľ za UEF SAV: Tomori Zoltán

Projekt APVV-18-0301 **Vývoj metód pre rozpoznávanie vzorov atmosférických spršok pozorovaných EUSO experimentmi**. PI – Technická Univerzita v Košiciach. Zodpovedný riešiteľ za UEF SAV: Bobík Pavol

Projekt APVV-18-0358 **Elektrónové korelácie v neusporiadaných supravodičoch**. 2019-2023. Zodpovedný riešiteľ: Szabó Pavol

Bilaterálne:

APVV SK-PT-18-0026 - **Elementárne excitácie a indukované fázové transformácie v ortorombických multiferoikách so vzácnou zeminou**. Zodpovedný riešiteľ: Mihalik Marian

APVV SK-SRB-18-0055 - **Komplementárne analytické metódy na určenie biodistribúcie magnetických nanočastíc**. Zodpovedný riešiteľ: Koneracká Martina

APVV SK-SRB-18-0066 - **Magnetické nanokompozity pre biomedicínu**. Zodpovedný riešiteľ: Zentková Mária

Projekt Štrukturálne fondy Výskum a inovácie RIS3 SK: **Výskum a vývoj látok na diagnostiku Alzheimerovej choroby**

Zodpovedný riešiteľ: Gažová Zuzana

Projekt Štrukturálne fondy Výskum a inovácie RIS3 SK: **Modifikované (nano)textilné materiály pre zdravotnícke technológie**. (kód žiadosti: NFP313010T548)

Zodpovedný riešiteľ: Kopčanský Peter

2.2. Medzinárodné projekty**.2.1. Medzinárodné projekty riešené v roku 2018**

Tabuľka 2c Medzinárodné projekty riešené v roku 2018

ŠTRUKTÚRA PROJEKTOV	Počet		Čerpané financie (€)					
	A	B	A				B	
			Zo zdrojov SAV		Z iných zdrojov		Zo zdrojov SAV	Z iných zdrojov
			Spolu	Pre organi- záciu	Spolu	Pre organi- záciu		
1. Projekty 7. RP EÚ a Horizont 2020	0	0	-	-	-	-	-	-
2. Projekty ERA.NET, ESA, JRP	4	3	-	-	-	-	103 333	-
3. Projekty COST	2	2	-	-	-	-	18 667	-
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	1	2	-	-	74 499,85	74 499,85	-	-
5. Projekty v rámci medzivládnych dohôd	0	0	-	-	-	-	-	-
6. Bilaterálne projekty MAD	4	0	-	-	-	-	-	-
7. Bilaterálne projekty ostatné	7	0	-	-	-	-	-	-
8. Podpora MVTs z národných zdrojov (SAV, APVV a iné)	0	3	-	-	-	-	-	18 212,84
9. Iné projekty	2	0	-	-	-	21 167,67	-	-

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

2.2.2. Medzinárodné projekty Horizont 2020 podané v roku 2018

Tabuľka 2d Počet projektov Horizont 2020 v roku 2018

	A	B
Počet podaných projektov Horizont 2020	4	

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

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

Rozpis podaných projektov:

H2020- INFRAIA - 2018-1: European Microkelvin Platform (číslo projektu 824109)

Zodpovedný riešiteľ: Univerzita Heidelberg, Heidelberg, Nemecko, Prof. Christian Enss

Zodpovedný riešiteľ za SR: Skyba Peter

H2020-WIDESPREAD-2018-04-ERA Chair: Strengthening of the research and innovation team for development of functionalized SuperParamagnetic Iron-Oxide NANOparticles for cancer treatment. Zodpovedný riešiteľ za SR: Kopčanský Peter

H2020-LC-GV-2018 (Building a low-carbon, climate resilient future: Green Vehicles) **Low Cost and Efficient Electrical Maschine for Electrified Vehicle „CAMELEON“.**

Zodpovedný riešiteľ za SR: Škorvánek Ivan

H2020-MSCA-ITN-2018 (MARIE SKŁODOWSKA-CURIE ACTIONS, Innovative Training Networks) **Cooling and Electricity from Magnetocaloric Materials „COOLECTRA“.**

Zodpovedný riešiteľ za SR: Škorvánek Ivan

NATO project (Emerging Security Challenges Division Science for Peace and Security Programme)

Biocompatible nanoblockers of Oxidative stress as a nuclear explosion consequence.

Zodpovedný riešiteľ: Timko Milan

SAS-ERC Visiting grant: Enhancement of superconducting Tc in 2D thin films under pressure.

Zodpovedný riešiteľ: Pristáš Gabriel

EUREKA – E!9982 Nanoradiomag - Design and fabrication of radioactive water-dispersible magnetic nanoparticles for potential applications in cancer therapy.

Zodpovedný riešiteľ za SR: Koneracká Martina

M-ERA-NET: Dissociation of amyloid aggregates with photoswitchable molecular levers.

Zodpovedný riešiteľ za SR: Gažová Zuzana

M-ERA.NET NO-SK-LT-RO: Theoretical and Experimental Study of Transition Metal Oxyhydride anomaterials for superconductivity and photocatalysis. 2019 - 2022.

Zodpovedný riešiteľ za SR: Flachbart Karol

PPP projekt DAAD/SAV: Kovové geometricky frustrované systémy. 2019-2020.

Zodpovedný riešiteľ: Gabáni Slavomír

Bilaterálne projekty:

MVTS SAS-MOST Taiwan: Interactions of amyloid fibril-forming proteins/peptides with small molecules and/or nanomaterials: applications for the synthesis of novel bionanomaterials and implications for the therapeutics of amyloid diseases. Zodpovedný riešiteľ: Gažová Zuzana

MVTS SAS-MOST Taiwan: Štruktúrne prechody v kvapalných kryštáloch dopovaných nanočasticami. Zodpovedný riešiteľ: Tomašovičová Natália

SAV – MAV

Elastic micro-tools for optical manipulation of biological objects. Zodpovedný riešiteľ za SR: Tomori Zoltán

MAD-SK-HU

Ordering and self-organization of magnetic nanoparticles in liquid crystals. Zodpovedný riešiteľ: Lacková Veronika

Investigation of graphene covered superconducting nanostructures by scanning tunneling microscopy. Zodpovedný riešiteľ: Szabó Pavol

2.2.3. Zámery na čerpanie štrukturálnych fondov EÚ v ďalších výzvach

Ústav experimentálnej fyziky Slovenskej Akadémie Vied (ÚEF SAV) sa bude aj naďalej aktívne zapájať do vyhlásených výziev OPVaI v oblastiach definovaných národnou výskumnou stratégiou, a to najmä v oblasti základného výskumu fyziky kondenzovaných látok, subjadrovej fyziky, kozmickej fyziky, teoretickej fyziky, biofyziky, ako aj vo vybraných oblastiach chemických, biologických vied a nanotechnológií. Pokračujúcou víziou ústavu je ďalej rozvíjať jej vedecký potenciál, aby sa mohol stať jedným z významných pracovísk v oblasti fyziky v Európe.

Na dosiahnutie tohto cieľa ÚEF SAV plánujeme nadviazať na zameranie už ukončených projektov ŠF EÚ a aktívnu účasť pri príprave nových projektov, ktoré by nám umožnili doplniť/ zlepšiť experimentálnu infraštruktúru a zabezpečenie prevádzky prístrojov a zariadení, ale aj na začlenenie mladých vedeckých pracovníkov a post-docov (aj zo zahraničia) do jednotlivých výskumných tímov a smerov (projekt vo vyhlásenej výzve dlhodobého strategického výskumu (DSV) a v plánovanej výzve podpory pre už existujúce parky a centrá). Zamýšľané a pripravované projekty budú spoločné so spolupracujúcimi univerzitnými pracoviskami, ústavmi SAV, ale aj s partnermi z priemyslu.

2.2.3. Najvýznamnejšie výsledky vedeckej práce (maximálne 1000 znakov + 1 obrázok; bibliografický údaj uvádzajte rovnako ako v zozname publikačnej činnosti, vrátane IF)

2.3.1. Základný výskum

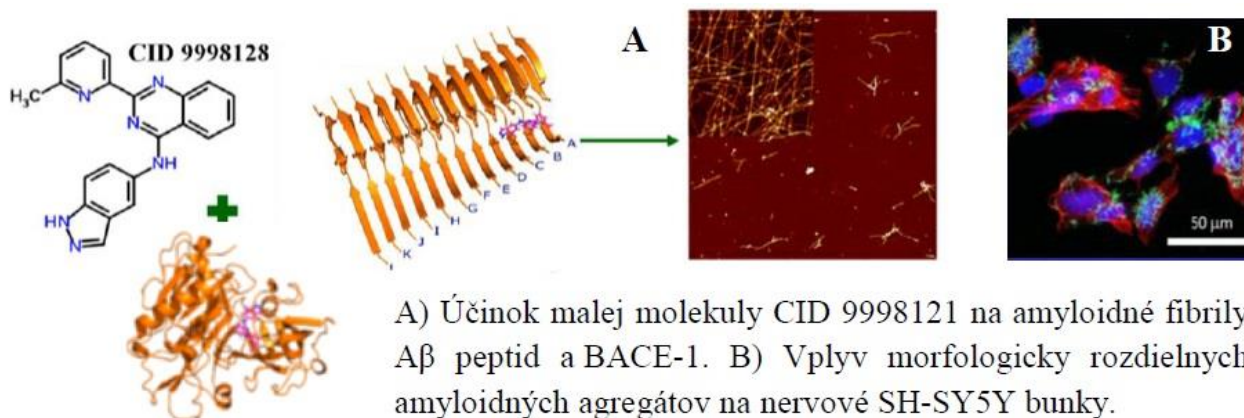
I. miesto

Multitargetový účinok malých molekúl na amyloidnú agregáciu proteínov a cytotoxicita amyloidných štruktúr

Projekty: VEGA 2/0145/17 a 2/0030/18, MVTS COST 083/14 action BM1405, SAS-MOST JRP 2015/5

Riešitelia: Z. Gažová, Z. Bednáriková, M. Gančár, K. Uličná, A. Antošová, D. Fedunová

Tvorba proteínových amyloidných agregátov je spojená s viac ako 50 nevyliciteľnými ochoreniami, ako Alzheimerova choroba alebo diabetes mellitus. Keďže sa javí, že polymorfizmus amyloidných agregátov moduluje priebeh týchto ochorení, sledovali sme účinok rôznych amyloidných štruktúr na nervové bunky. Zistili sme, že cytotoxicita koreluje so stupňom agregácie proteínu. V súlade s novou multi-target-directed-ligand stratégiou hľadania účinných liečiv sme pomocou rôznych in vitro a in silico metód testovali účinok viacerých látok nielen na amyloidnú agregáciu proteínov (A β , lyzozým, inzulín), ale aj na iné proteíny (BACE-1, receptory γ -PPAR a RXRs). Určili sme väzobné miesta a väzobnú afinitu účinných látok v proteínoch, typ interakcií medzi nimi a vzťah medzi štruktúrou látok a ich aktivitou. Okrem toho sme sledovali ich anti-oxidačný a cytotoxický účinok. Zistili sme, že malé molekuly metylénová modrá, kurkumínové deriváty, CID 9998128 a takrín/akridón-kumarínové heterodiméry a tiež dextránom modifikované maghemitové nanočastice sú látky s významným terapeutickým potenciálom.



[1] PHAM, H. D. Q.- THAI, N. Q.- BEDNARIKOVA, Z.- LINH, H. Q.- GAZOVA, Z. - LI, M. S. Bexarotene cannot reduce amyloid beta plaques through inhibition of production of amyloid beta peptides: in silico and in vitro study. Phys.Chem.Chem.Phys., 2018, vol. 20, pp. 24329-24338. (IF 3.906)

[2] ULICNA, K.- BEDNARIKOVA, Z.- HSU, W.-T. HOLZTRAGEROVA, M.- WU, J. W.- HAMULAKOVA, S.- WANG, S. S.-S.- GAZOVA, Z. Lysozyme amyloid fibrillization in presence of tacrine/acridone-coumarin heterodimers. Colloids and Surfaces B: Biointerfaces, 2018, vol. 166, pp. 108–118. (IF 3.997)

[3] LU, N.-H.-HOW, S.-CH., LIN, CH.-Y., TSAI, S.-L., BEDNARIKOVA, Z.- FEDUNOVA, D. - GAZOVA, Z.- WU, W. J.- WANG, S. S.-S. Examining the effects of dextran-based polymer-coated nanoparticles on amyloid fibrillogenesis of human insulin. Colloids and Surfaces B: Biointerfaces, 2018, vol. 172, pp. 674-683. (IF 3.997)

[4] BYSTRENOVA, E. - BEDNARIKOVA, Z.- BARBALINARDO, M. -VALLE, F.- GAZOVA, Z. - BISCARINI, F. Insulin amyloid structures and their influence on neural cells. Colloids and Surfaces B: Biointerfaces, 2018, vol. 161, pp. 177–182. (IF 3.997)

- [5] THAI, N. Q.- BEDNARIKOVA, Z.- GANCAR, M.- LINH, H. Q.- HU, CH.-K. - LI, M. S. - GAZOVA, Z. Compound CID 9998128 Is a Potential Multitarget Drug for Alzheimer's Disease. ACS Chem. Neurosci., 2018, vol. 9, pp. 2588–2598. (IF 4.211)
- [6] HOW, S. - CH.- CHENG, Y.-H.- , CH.-H.-LAI, J.-T.-LIN, T.-H.- BEDNARIKOVA, Z.- ANTOSOVA, A.- GAZOVA, Z.- WU, J. W.- WANG, S. S.-S. Exploring the effects of methylene blue on amyloid fibrillogenesis of lysozyme. International Journal of Biological Macromolecules, 2018, vol. 119, pp. 1059-1067. (IF 3.909)
- [7] ORTECA, G. - TAVANTI, F. - BEDNARIKOVA, Z. - GAZOVA, Z. - RIGILLO, G. - IMBRIANO, C. - BASILE, V. - ASTI, M.-RIGAMONTI, L. - SALADINI, M. - FERRARI, E. - MENZIANI, C. Curcumin derivatives and A β -fibrillar aggregates: An interactions' study for diagnostic/therapeutic purposes in neurodegenerative diseases. Bioorganic & Medicinal Chemistry, 2018, vol. 26, pp. 4288-4300. (IF 2.881)

II. miesto

Topológia povrchových stavov a vplyv vysokého tlaku na zmiešanú valenčnosť v SmB6

Projekty: VEGA 2/0032/16, APVV-14-0605

Riešitelia: K. Flachbart, S. Gabáni, G. Pristáš

SmB6 je ťažkofermiónový polovodič s úzkym zakázaným pásom v okolí Fermiho hladiny, ktorý je najnovšie označovaný ako prototyp 3D topologického Kondovho izolátora, teda za silne korelovaný elektrónový systém vykazujúci topologické povrchové vodivostné stavy zodpovedné za zvyškovú vodivosť. Avšak naše experimentálne výsledky na unikátnom zariadení ARPES v BESSY Berlín pri teplotách pod 1 K poukazujú, že ide naďalej len o Kondov izolátor s obyčajnou (triviálnou) povrchovou vodivosťou. SmB6 je zároveň prototypom zlúčeniny vykazujúcej homogénnu zmiešanú valenčnosť (t.j. ióny samária sú v stave Sm^{2.5+}). Naše štúdium vplyvu vysokého hydrostatického tlaku (do 14 GPa) na elektrickú rezistivitu a zároveň na valenčnosť iónov samária meraním RTG absorpcie na unikátnom zariadení Spring-8 v Japonsku ukázalo, že tlakom indukovaný kovový magnetický prechod v SmB6 pri cca 10 GPa je spôsobený výrazným zvýšením valenčnosti samáriových iónov, t.j. prechodu zo stavu Sm^{2.5+} do stavu Sm³⁺.

P. HLAWENKA, K. SIEMENSMEYER, E. WESCHKE, A. VARAKHALOV, J. SANCHEZ-BARRIGA, N.Y. SHITSEVALOVA, A.V. DUKHNENKO, V.B. FILIPOV, S. GABÁNI, K. FLACHBART, O. RADER, E.D.L. RIENKS. Samarium hexaboride is a trivial surface conductor. Nature Communications 9, 517 (2018). IF: 12.134

N. EMI, N. KAWAMURA, M. MIZUMAKI, T. KOYAMA, N., ISHIMATSU, G. PRISTÁŠ, T. KAGAYAMA, K. SHIMIZU, Y. OSANAI, F. IGA, T. MITO. Kondo-like behavior near the magnetic instability in SmB6: Temperature and pressure dependences of the Sm valence. Physical Review B 97, 161116 (R) (2018). IF: 3.612

2.3.2. Aplikačný typ

I. miesto

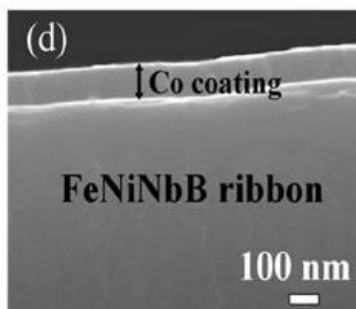
Nanokryštalické rýchlochladené kovové pásy na báze FeNi pokryté tenkou vrstvou kobaltu so zlepšenými vysokofrekvenčnými GMI senzorovými charakteristikami

Projekty: VEGA 2/0173/16, APVV 15-0621

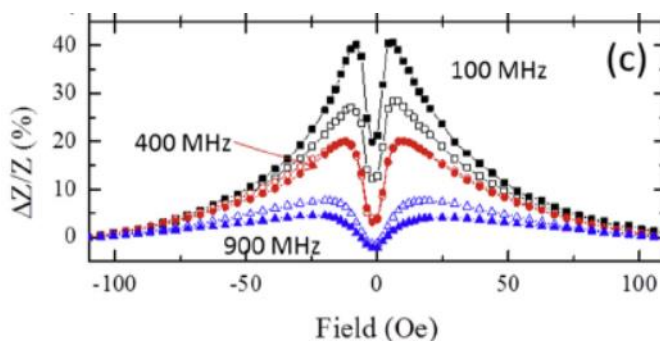
Riešitelia: I. Škorvánek, J. Marcin

Magneticky mäkké nanokryštalické zliatiny na báze prechodových 3d kovov vykazujúce jav obrovskej magnetoimpedancie (GMI), majú sľubný aplikačný potenciál v oblasti magnetických senzorov. V tejto práci sme sa zamerali na netradičnú metódu ovplyvňovania GMI odozvy v týchto materiáloch, ktorá spočíva v nanosení dodatočnej tenkej vrstvy feromagnetického kovu na ich povrch. Konkrétne sa jednalo o rýchlochladené nanokryštalické kovové pásy na báze Fe-Ni-Nb-B, na povrch

ktorých bola nanosená tenká vrstva kryštallického kobaltu s hrúbkou 120 nm. Cieľom týchto experimentov bolo zvýšenie citlivosti GMI senzorových charakteristík na malé zmeny okolitého magnetického poľa. Výsledky našich meraní ukázali že najmä v oblasti nižších frekvencií (okolo 100 MHz). Sú nízkoľopné zmeny GMI efektu po nanosení Co-vrstvy podstatne vyššie oproti pôvodnej vzorke bez Co-povlaku. Pozorované zlepšenie GMI senzorových charakteristík je pripisované zvýšeniu transversálnej zložky magnetickej permeability, ku ktorému došlo v dôsledku indukovaných mechanických napätí po nanosení tenkej Co vrstvy na Fe-Ni-Nb-B páska s kladnou magnetostrikciou.



SEM snímka nanokryštalickej FeNiNbB páska pokrytej tenkou vrstvou fcc-kobaltu



Zvýšená GMI odozva po nanosení Co vrstvy (plné symboly) oproti referenčnej vzorke bez Co vrstvy (prázdne symboly) pozorovaná pri 100 MHz

EGGERS, T. - LAM, D.S. - THIABGOH, O. - MARCIN, Jozef - ŠVEC, Peter - HUONG, N.T. - ŠKORVÁNEK, Ivan - PHAN, M.H. Impact of the transverse magnetocrystalline anisotropy of a Co coating layer on the magnetoimpedance response of FeNi-rich nanocrystalline ribbon. In Journal of Alloys and Compounds, 2018, vol. 741, p. 1105-1111. (IF 3.779).

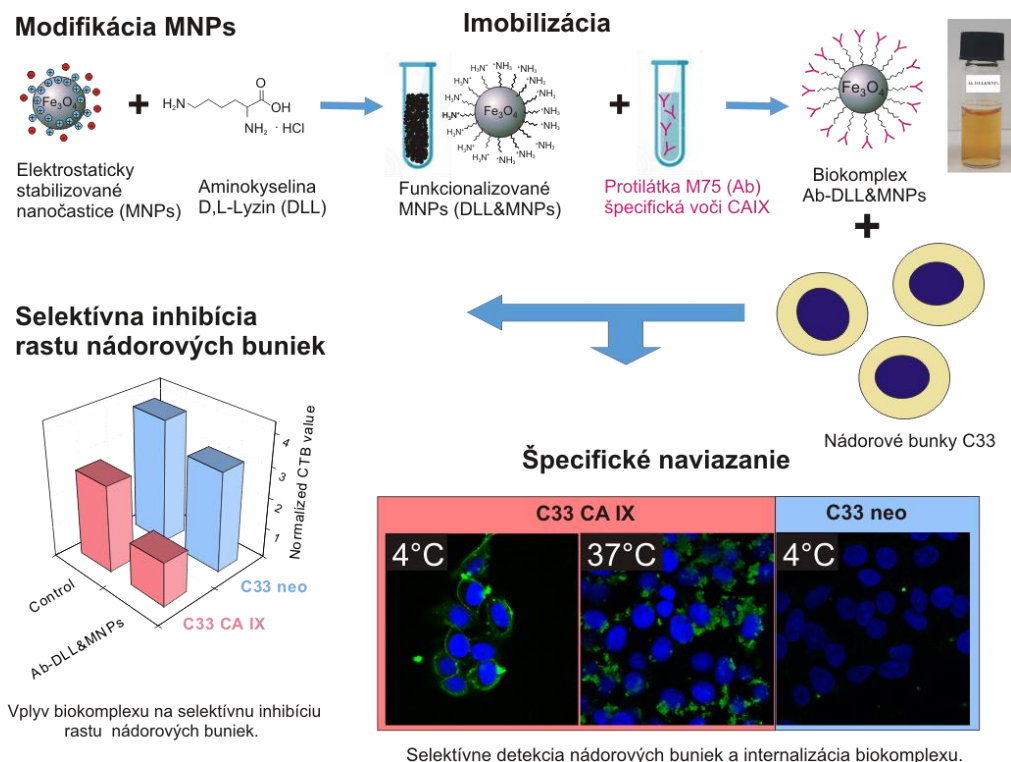
II. miesto

Magnetické nanočastice funkcionizované D,L-lyzínom na detekciu nádorových buniek

Projekty: APVV-14-0120, APVV-14-0932, COST TD 1402 Radiomag, VEGA: 2/0016/17, ITMS 26220120033, ITMS 26240120043 a ITMS 26220220186

Riešitelia: M. Koneracká, I. Antal, V. Závistová, M. Kubovčíková, I. Khmara, D. Lučanská, P. Kopčanský

Práca je zameraná na protilátkami sprostredkovanú detekciu a zobrazovanie nádorovej hypoxie. Takmer všetky pevné nádory sú hypoxické, majú zvýšený metastatický potenciál a sú rezistentné na chemo/rádioterapiu. Prvým krokom na dosiahnutie požadovaného cieľa bola syntéza elektrostaticky stabilizovaných magnetických nanočastíc a funkcionizácia ich povrchu aminokyselinou D,L - lyzín. Ďalším, avšak kľúčovým krokom v procese prípravy magnetických nanočastíc s naviazanou protilátkou, bola imobilizácia protilátky M75 (Ab). Ab je špecifická pre karbonickú anhydrázu IX (CA IX), ktorá sa považuje za jeden z najlepších markerov hypoxie nádorov. Najlepšie výsledky imobilizácie, t.j. najvyššie percento naviazania Ab na magnetické nanočastice sme dosiahli pri hmotnostnom pomere 1:2Ab/Fe₃O₄(biokomplex). Výsledky z imunofluorescencie potvrdili nielen selektívnu detekciu nádorových buniek pomocou biokomplexu, ale aj jeho internalizáciu, ktorá navyše viedla k narušeniu štruktúry nádorových buniek.



I. ANTAL, M. KONERACKA, M. KUBOVCIKOVA, V. ZAVISOVA, I. KHMARA, D. LUCANSKA, L. JELENSKA, I. VIDLICKOVA, M. ZATOVICOVA, S. PASTOREKOVA, N. BUGAROVA, M. MICUSIK, M. OMASTOVA, P. KOPCANSKY. D,L-lysine functionalized Fe₃O₄ nanoparticles for detection of cancer cells, *Colloids Surfaces B Biointerfaces*. 163 (2018) 236–245. doi:10.1016/j.colsurfb.2017.12.022. (IF 2017 3.997; Q1; počet citácií: 6)

2.3.3. Medzinárodné vedecké projekty

I. miesto

Biomedicínske aplikácie magnetických nanočastíc

Projekty: VEGA 2/0141/16

Riešitelia: M. Timko, I. Antal, L. Balejčíková, Z. Mitróová, P. Kopčanský

Pri štúdiu feritínu bolo ukázané, že redukcia a rekonštrukcia jadra feritínu nie sú symetrické procesy, a že jadro feritínu je zložené z jednej fázy, minerálu podobného ferihydrátu. [1]. Aβ peptid, počas procesu tvorby fibríl, je schopný redukovať Fe³⁺ na Fe²⁺ z anorganického jadra natívneho feritínu. Magnetoferitín a rekonštruovaný feritín spôsobuje zmenu štruktúry, redukciu veľkosti a množstva lyzozýmových amyloidných fibríl [2]. Efektivita ultrazvukovej hypertermie vhodnej na liečenie nádorových ochorení môže byť vylepšená využitím sonosenzibilizátorov, čo sú vlastne materiály, ktoré zvyšujú útlm ultrazvuku a disipáciu jeho energie. Ako sonosenzibilizátor v našom experimente sme využili magnetické nanočastice, keďže sú biokompatibilné, netoxické a sú viacmenej bežne využívané v biomedicínskych aplikáciách. Teoretický model založený na prenose tepla ukázal dobrú zhodu s experimentom a potvrdil, že nárast teploty v agarovom fantóme s nanočasticami je vyšší ako v čistom agare [3]. Experimentálne bolo preukázané, že tepelná stimulácia fantómu dopovaného nanočasticami umožňuje lepšie riadenie nárastu teploty v procese hypertermického ohrevu [4]. Magneto-ultrazvukový ohrev vytvára oveľa efektívnejší efekt hypertermie a má veľký aplikačný potenciál pri liečbe nádorových ochorení s použitím menšej koncentrácie nanočastíc. Použitie obidvoch ultrazvukového a magnetického systému hypertermie súčasne dáva možnosť

rozvoju novej, inovatívnej sonomagnetickej tepelnej terapie. Získané výsledky z ultrazvukového ohrevu, ktorého efekt bol zvýšený magnetickými nanočasticami otvárajú nové perspektívy pre aplikácie kombinovaných metód hypertermie v klinickej praxi.

[1] M. Koralewski, L. Balejíková, Z. Mitroová, M. Pochylski, M. Baranowski, P. Kopčanský. Morphology and Magnetic Structure of the Ferritin Core during Iron Loading and Release by Magneto-optical and NMR Methods. In ACS Applied Materials & Interfaces, 2018, vol. 10, p. 7777-7787 (8.097 - IF2017)

Citácie:

E. N. Yaacob, B. G. De Geest, J. Goethals, A. Bajek, K. Dierckens, P. Bossier, D. Vanrompay. Recombinant ferritin-H induces immunosuppression in European sea bass larvae (Dicentrarchus labrax) rather than immunostimulation and protection against a Vibrio anguillarum infection. In Veterinary Immunology and Immunopathology, 2018, vol. 204, p. 19-27

[2] L. Balejíková, V. I. Petrenko, M. Baťková, K. Šipošová, V. M. Garamus, L. A. Bulavin, M. V. Avdeev, L. Almásy, P. Kopčanský. Disruption of amyloid aggregates by artificial ferritins. In Journal of Magnetism and Magnetic Materials, 2019, vol. 473, p. 215-220 (3.046 - IF2017)

[3] K. Kaczmarek, T. Hornowski, M. Kubovcikova, M. Timko, M. Koralewski, A. Jozefczak ACS Applied Materials & Interfaces 2018, Vol. 10, Issue: 14, 11554-11564, (8.097 - IF2017)

[4] K. Kaczmarek, T. Hornowski, I. Antal, M. Timko, A. Józefczak, Magneto-ultrasonic heating with nanoparticles Journal of Magnetism and Magnetic Materials 474 (2019) 400–405 (3.046 - IF2017)

II. miesto

Neobvyklá interakcia medzi supravodivosťou a poľovo indukovaným usporiadaním náboja v YBa₂Cu₃O_y

Projekty: APVV-16/0372

Riešiteľia: J. Kačmarčík

Spoluráca s CNRS Grenoble France, Université de Sherbrooke Canada, Stockholm University Sweden

V predkladanej práci uvádzame podrobnú štúdiu závislosti hustoty elektrónových stavov (DOS) poddopovaných kuprátov YBa₂Cu₃O_y na teplote (T) a magnetickom poli (H), odvodené z meraní merného tepla a Knightovho posunu. Zistili sme, že DOS prestáva byť závislá od magnetického poľa nad charakteristickým poľom HDOS. Teplotná závislosť HDOS(T) má nezvyčajný ohyb v oblasti, kde sa objavuje 3D usporiadanie vln nábojovej hustoty s dlhým dosahom. Neobvyklý S tvar HDOS(T) naznačuje, že dve vzájomne sa vylučujúce usporiadania nakoniec vytvoria určitú formu kooperácie, aby mohli koexistovať pri nízkej teplote. Z teoretického pohľadu by taká kooperácia mohla byť dôsledkom stabilizácie stavu vln hustoty elektrónových párov (PDW - pair density wave).

J. KAČMARČÍK, I. VINOGRAD, B. MICHON, A. RYDH, A. DEMUER, R. ZHOU, H. MAYAFFRE, R. LIANG, W. HARDY, D.A. BONN, N. DOIRON-LEYRAUD, L. TAILLEFER, M.-H. JULIEN, C. MAECENAT and T. KLEIN. Unusual interplay between superconductivity and field-induced charge order in YBa₂Cu₃O_y. Physical Review Letters 121 (2018) 167002. IF: 8.84

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

Tabuľka 2e Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	Počet v r. 2018/ doplňky z r. 2017
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)	1 / 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)	206 / 15
10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus (ADMA, ADMB, ADNA, ADNBN)	5 / 0
11. Vedecké práce v ostatných domácich časopisoch (ADFA, ADFB)	0 / 1
12. Vedecké práce v ostatných zahraničných časopisoch (ADEA, ADEB)	2 / 0
13. Vedecké práce v domácich recenzovaných zborníkoch (AEDA)	0 / 0
14. Vedecké práce v zahraničných recenzovaných zborníkoch (AECA)	0 / 0
15. Publikované príspevky na domácich vedeckých konferenciách (AFB, AFD)	6 / 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)	2 / 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 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. 2017 (zdroj JCR) <i>Počet článkov / doplnky 2016</i>	151 / 11	26 / 3	27 / 1	3 / 0	207 / 15
Podľa SJR z r. 2017 (zdroj Scimago) <i>Počet článkov / doplnky 2016</i>	172 / 13	20 / 2	16 / 0	2 / 0	210 / 15

Tabuľka 2g Ohlasy

OHLASY	Počet v r. 2017/ doplnky z r. 2016
Citácie vo WOS (1.1, 2.1)	4112 / 153
Citácie v SCOPUS (1.2, 2.2)	79 / 3
Citácie v iných citačných indexoch a databázach (9, 10, 3.2, 4.2)	2 / 0
Citácie v publikáciách neregistrovaných v citačných indexoch (3, 4, 3.1, 4.1)	3 / 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	45
Prednášky a vývesky na domácich vedeckých podujatiach	38

2.6. Vyžiadané prednášky

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

FLACHBART K. - TmB4 – magneto-caloric effect and other properties, XVII. conference of Solid state and High pressure problems, 15.9.2018, Sochi, Rusko

GAŽOVÁ, Z. Amyloid aggregation of poly/peptides. YABEC 2018, The 24-th Symposium of Young Asian Biological Engineers' Community, 15.-17.11.2018, Taipei, Taiwan

KOPČANSKÝ, P. SIPOSOVA, K., MOLCAN, M., TMKO, M., JOZEF CZAK, A., SKUMIEL, A., LESZCZYNSKI, B. HAYSAK, I. - Destruction of amyloid structures with the help of ultrasonics, hyperthermia and radiation treatments in the presence of magnetic nanoparticles. 14th Workshop on Molecular Acoustics, Relaxation and Calorimetric Methods within the framework of the 47th Winter School on Wave and Quantum Acoustics. 26.02.-1.03.2018, Szczyrk, Poland

KOPČANSKÝ, P., TOMAŠOVIČOVÁ, N., GDOVINOVA, V., TIMKO, M., MAJOROŠOVÁ, J., EBER, N., TOTH-KATONA, T., JADZYN, J. - Ferronematics-Liquid crystalline sensor of magnetic fields. Physics of Liquid Matter: Modern Problems (PLMMP-2018), 18.-22.5.2018, Kijev, Ukrajina

KOPČANSKÝ, P. - Magnetoferritin. International Conference on Biomedical Applications of Magnetic Nanoparticles, 7.12. 2018, Chennai, India

KOVÁČ J. - Testing and Comparison of models for fitting of magnetic hysteresis loops. The XIX International Scientific Conference New Technologies and Achievements in Metallurgy and Material Engineering and Production Engineering and Physics, 7.-8.6.2018, Czestochowa, Poland

MACKOVJAK Š. & ANZALONE A. for the JEM-EUSO collaboration, Atmospheric Monitoring for UHECR Space-based Missions, AtmoHEAD (ATmospheric MONitoring for High Energy Astroparticle Detectors), 24.-26.9.2018, Anacapri, Taliansko

MOLČAN M. - Structure and hyperthermia effect in magnetosome solution. 11th Conference on Colloid Chemistry, Eger, Maďarsko

PASTIRČÁK S. - Experiment Baikal and its computational and CORSIKA simulational needs. Workshop, Next generation CORSIKA Workshop, 25.-26.6.2018 at KIT

SAMUELY P. - Superconductivity in restricted geometries. The cases of Cu_xTiSe_2 , $\beta\text{-Bi}_2\text{Pd}$ & $(\text{LaSe})_{1.14}(\text{NbSe}_2)$. International Conference on Multi-Condensate Superconductivity and Superfluidity in Solids and Ultra-Cold Gasses, 14.-18.5.2018, Terst, Taliansko

SAMUELY P. - Evidence of Ising Superconductivity in Misfit layer Compounds. Workshop Misfit Layer compound as Ising superconductor, 19.-20.6.2018, Nantes, Francúzsko

RAK D. – **SEDLÁK M.** - Mesoscale solubility in liquid solutions and mixtures, ECIS (European Colloid and Interface Society) symposium 2018, 3.-7.9.2018, Ljubljana, Slovinsko

SZABÓ P. - On the origin of the quasiparticle states in the superconducting gap of homogeneously disordered ultrathin films. MoC case. Coherent superconducting hybrids and related materials, 26.-29.3.2018, Les Arcs 1800, Francúzsko

ŠIPOŠOVÁ K. - The Way To Fight With The Amyloid Protein Aggregates: Role Of Nanoparticles. Physics of Liquid Matter: Modern Problems (PLMMP-2018), 18.-22.5.2018, Kijev, Ukrajina

ŠKORVÁNEK I., JANOTOVA I., ANDREJKA F., KUNCA B., MARCIN J., ŠVEC P., ŠVEC P. Sr. Field-annealed amorphous and nanocrystalline ribbons and composites with improved energy performance. TMS 2018, 147-th Annual Meeting and Exhibition, 11.-15.3.2018, Phoenix, Arizona, USA

ŠKORVÁNEK I., KUNCA B., ANDREJKA F., ŠVEC P., MARCIN J., ŠVEC P. Sr. Development of new rapidly quenched bilayer ribbons with tunable soft magnetic properties. ICAUMS 2018, International Conference of Asian Union of Magnetic Societies, 3.-7.6.2018, Jeju, Korea

ŠKORVÁNEK I., KUNCA B., ANDREJKA F., ŠVEC P., MARCIN J., ŠVEC P. Sr. Rapidly quenched amorphous and nanocrystalline bilayer ribbons for magnetic sensors. International Conference on Processing and Manufacturing of Advanced Materials, THERMEC 2018, 8.-13.7.2018, Paríž, Francúzsko

ŠKORVÁNEK I., MARCIN J., KUNCA B., ANDREJKA F., ŠVEC P. Soft magnetic nanocrystalline bilayer ribbons for sensor applications. Symposium of 30th Anniversary of Nano Crystalline Soft Magnetic Alloys, FINEMET 30, 29.-31.8.2018, Sendai, Japonsko

ŠKORVÁNEK I., MARCIN J., KUNCA B., ANDREJKA F., ŠVEC P. Amorphous and nanocrystalline bilayer composites with tailorable soft magnetic properties. The 9th International Workshop on Advanced Materials Science and Nanotechnology, IWAMSN 2018, 7.-11.11.2018, Ninh Binh, Vietnam

TIMKO, M., KOPČANSKÝ, P., STUDENYAK, I.P., KOVALCHUK, O.V. - New composites based on liquid crystals with superionic nanoparticles: development, preparation, dielectric and acoustic properties. 14th Workshop on Molecular Acoustics, Relaxation and Calorimetric Methods within the framework of the 47th Winter School on Wave and Quantum Acoustics. 26.02.-1.03.2018, Szczyrk, Poland

TIMKO, M., MOLČAN, M., BALEJČÍKOVÁ, L., KOPČANSKÝ, P., PETRENKO, V.I. - Hyperthermia effect in various iron oxides. Physics of Liquid Matter: Modern Problems (PLMMP-2018), 18.-22.5.2018, Kijev, Ukrajina

TIMKO, M. - Magneto-ultrasonic heating in iron oxides magnetic nanoparticles suspension. International Conference on Biomedical Applications of Magnetic Nanoparticles, 7.12. 2018, Chennai, India

2.6.2. Vyžiadané prednášky na domácich vedeckých podujatiach

BEDNÁRIKOVÁ, Z. -NEDZIALEK, D.-WIECZOREK, G.-KOZMINSKI, P.-GAZOVA, Z. A novel approach to treating Alzheimer's disease? Photoswitchable molecules. In 8-th Slovak Biophysical Symposium, Košice, 30.5.-1.6. 2018

GABÁNI S. – Pressure effect on superconductivity of YB_6 . 23. Konferencia slovenských fyzikov, 5.-8.9.2018, Smolenice

BEDNÁRIKOVÁ, Z.-GANČÁR, M.-ULIČNÁ, K.-FEDUNOVÁ, D.-WANG, S.S.S.-WU, J.W.-TANG, Y.-MA, L.-ZHENG, B.-B.-**GAŽOVÁ, Z.** Effect of natural and synthetic small molecules on aggregation of globular proteins. 8-th Slovak Biophysical Symposium, Košice, 30.5.-1.6. 2018

MARIAN MIHALIK, R. JACKO, MATÚŠ MIHALIK, M. ZENTKOVÁ - Structural and magnetic phase diagrams of $\text{RMn}_{1-x}\text{Fe}_x\text{O}_3$ system, 23. Konferencia slovenských fyzikov, 5.-8.9.2018, Smolenice

LACKOVÁ V. - Structuralization processes in composite materials based on liquid crystals doped with magnetic nanoparticles, 23. Konferencia slovenských fyzikov, 5.-8.9.2018, Smolenice

LACKOVÁ V. - Tuning the phase transition temperature of ferronematics with a magnetic field, Small Triangle Meeting, 7.- 10.10.2018, Ptíče

RAJŇÁK M. - Experimental study of magnetic fluids for electrical engineering applications, 23. Konferencia slovenských fyzikov, 5.-8.9.2018, Smolenice

RAJŇÁK M. - The use of neutron scattering in the study of magnetic fluids in electric fields, SFEL2018, Liptovský Ján, 27. – 31. Máj 2018

SZABÓ P. - Prechod supravodič-izolant. 23. Konferencia slovenských fyzikov, 5.-8.9.2018, Smolenice

ŠIPOŠOVÁ K. - Interactions of Nanoparticles with Proteins: Biomedical Applications. 23. Konferencia slovenských fyzikov, 5.-8.9.2018, Smolenice

ŠKORVÁNEK I., KUNCA B., ANDREJKA F., ŠVEC P., MARCIN J., ŠVEC P. Sr. Amorphous and nanocrystalline bilayer ribbon composites for magnetic sensors. Vedecká konferencia - Funkčné kompozitné materiály. 16.10.2018, Košice

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

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

BALÁŽ J. - Fundamentals of space scientific instruments; specialized lectures for project ESA-PECS / SEES (Space for Education, Education for Space), STU Bratislava, 27.3.2018

BALÁŽ J. - Prístroje pre družice a kozmické sondy. Letná škola ESA, STU Bratislava, 3.7.2018

BALÁŽ J. - Rosetta Mission. Letná škola ESA, STU Bratislava, 3.7.2018

BEDNÁRIKOVÁ, Z. - A novel approach for treatment of Alzheimer's disease. School of Pharmacy, East China University of Science and Technology, Shanghai, China, 11.10.2018

DIKO P., HAJDOVÁ P. - Microstructure analyses of SmBCO and NdBCO bulk superconductors prepared from modified precursors. Prednáška na seminári skupiny masívnych supravodičov Department of Physics and Astronomy, Shanghai Jiao Tong University, 28.11.2018

GABÁNI S. - Je hexaborid samária topologický alebo triviálny izolátor? KEF PF UPJŠ, Košice, 8.3.2018

GAŽOVÁ, Z. - Amyloid assemblies of proteins - formation, inhibition and effect on cells. School of Pharmacy, East China University of Science and Technology, Shanghai, China, 11.10.2018

KOPČANSKÝ P. - Research at Institute of Experimental Physics, Slovak Academy of Sciences. Workshop on Study of Magnetic Fluid and Biophysical and Biomedical Related Researches, National Chengchi University, Taipei, Taiwan, 3.12.2018

KOPČANSKÝ P. - Ferronematics-liquid crystalline sensors of magnetic fluids. Workshop on Soft Matter, Institute of Physics, Academia Sinica, Taipei, Taiwan, 19.4.2018

MAJOROŠOVÁ J. -SAXS study on amyloids doped with magnetic nanoparticles. Workshop on Soft Matter, Institute of Physics, Academia Sinica, Taipei, Taiwan, 19.4.2018

MUSATOV A., Siposova K. - The interplay between mitochondria, oxidative stress and protein amyloid formation. Functional and structural insights into the phospholipid-protein interaction, Workshop on Soft Matter, Institute of Physics, Academia Sinica, Taipei, Taiwan, 19.4.2018

ŠIPOŠOVÁ K. - Structural and Functional Consequences of Interaction of Amyloidogenic Proteins with Phospholipids and/or Detergents. Joint Research Centre, Ispra, Taliansko, 15.3.2018

ŠIPOŠOVÁ K. - The role of nanoparticles in study of protein amyloidogenesis. Workshop on Study of Magnetic Fluid and Biophysical and Biomedical Related Researches, National Chengchi University, Taipei, Taiwan, 3.12.2018

TIMKO M. - Magneto?ultrasonic heating in iron oxides magnetic nanoparticles suspension. Workshop on Study of Magnetic Fluid and Biophysical and Biomedical Related Researches, National Chengchi University, Taipei, Taiwan, 3.12.2018

TOMAŠOVIČOVÁ N. - Composite systems based on thermotropic liquid crystals. Workshop on Soft Matter, Institute of Physics, Academia Sinica, Taipei, Taiwan, 19.4.2018

2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2018

2.7.1. Vynálezy, na ktoré bol udelený patent

M. Sedlák, D. Rak: Spôsob merania obsahu alkánov v alkoholoch metódou nanosegregácie vo vodných roztokoch, ÚPV SR, patent č. 288560. Udelený 16.3. 2018. Dátum sprístupnenia patentu verejnosti 7.5.2018.

2.7.2. Prihlásené vynálezy

V zahraničí - počet patentov: 4

Číslo PV: PP 124745-2018

Mená autorov: Kopčanský Peter, Timko Milan, Studenyak I.P., Kovalchuk O.V., YzaiV.Ju., Vizenko M.O.,

Názov vynálezu: Spôsob zvýšenia elektrickej vodivosti kvapalného kryštálu 6CB pridaním nanočastíc superionického vodiča Cu7PS6

Majiteľ / spolumajiteľ: Štátna vysoká škola „Uzhhorod State University“ Pidhirna 46, Uzhgorod, 88000, UA; Krajina: Ukrajina

Číslo PV: PP 127636-2018

Mená autorov: Kopčanský Peter, Rajňák Michal, Timko Milan, Studenyak I.P., YzaiV.Ju., Pogodin A.I., .V.,

Názov vynálezu: Použitie polymérneho kompozitu na báze mikrokryštalického jodidu-pentatiogermanatu Cu7GeS5I ako materiálu pre tvrdoelektrolytického uskladnenia energie

Majiteľ / spolumajiteľ: Štátna vysoká škola „Uzhhorod State University“ Pidhirna 46, Uzhgorod, 88000, UA; Krajina: Ukrajina

Číslo PV: PP 116679-2018

Mená autorov: Kopčanský Peter, Timko Milan, Studenyak I.P., Kovalchuk O.V., Bendak A.V., Studenyak V.I.,

Názov vynálezu: Spôsob získania kompozitu na základe nematického kvapalného kryštálu 6CHBT
Majiteľ / spolumajiteľ: Štátna vysoká škola „Uzhhorod State University“ Pidhirna 46, Uzhgorod, 88000, UA; Krajina: Ukrajina

Číslo PV: PP 115898-2018

Mená autorov: Kopčanský Peter, Timko Milan, Studenyak I.P., Kovalchuk O.V., Bendak A.V., Studenyak V.I.,

Názov vynálezu: Spôsob získania kompozitu na základe nematického kvapalného kryštálu 6CB
Majiteľ / spolumajiteľ: Štátna vysoká škola „Uzhhorod State University“ Pidhirna 46, Uzhgorod, 88000, UA; Krajina: Ukrajina

2.7.3. Predané licencie

2.7.4. Realizované patenty

Finančný prínos pre organizáciu SAV v roku 2018 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
Diko Pavel	APVV	2
Fedunová Diana	VVGS	1
Gažová Zuzana	PF UPJS - VVGS	1
	VEGA	1
Šipošová Katarína	VEGA	1
	VVGS UPJŠ	1
Škorvánek Ivan	VEGA	1
	VVGS UPJŠ	1
Timko Milan	APVV	1
	VEGA	1
Tomašovičová Natália	APVV	2

2.9. Účasť na spracovaní hesiel do encyklopédie Beliana

Počet autorov hesiel: 0

2.10. Recenzovanie publikácií a príspevkov vo vedeckých časopisoch

Tabuľka 2j Počet recenzovaných monografií, článkov, zborníkov

Meno pracovníka	Knížné monografie		Príspevky v časopisoch			Zborníky	
	Domáce	Zahra- ničné	WoS, SCOPUS	Iné databázy	Ostatné	Domáce	Zahra- ničné
Antal Iryna	0	0	4	0	0	0	0
Antal Vitaliy	0	0	2	0	0	0	0
Baťková Marianna	0	0	0	0	0	0	0
Bednáriková Zuzana	0	0	1	2	0	0	0
Bobík Pavol	0	0	3	0	0	0	0
Diko Pavel	0	0	8	0	0	0	0
Flachbart Karol	0	0	2	0	0	0	0
Gažová Zuzana	0	0	13	0	0	0	0
Hnatič Michal	0	0	2	0	0	0	0
Koneracká Martina	0	0	4	0	0	0	0
Kudela Karel	0	0	7	0	0	0	0
Pristáš Gabriel	0	0	0	0	0	0	1
Samuely Peter	0	0	2	0	0	0	0
Sedlák Marián	0	0	8	0	0	0	0
Skyba Peter	0	0	0	0	0	0	0
Szabó Pavol	0	0	4	0	0	0	0
Šipošová Katarína	0	0	1	0	0	0	0
Škorvánek Ivan	0	0	5	0	0	0	0
Timko Milan	0	0	4	0	0	0	0
Tomašovičová Natália	0	0	5	0	0	0	0
Tomori Zoltán	0	0	1	0	0	0	0
Vargaeštoková Zuzana	0	0	4	0	0	0	0
Spolu	0	0	80	2	0	0	1

2.11. Iné informácie k vedeckej činnosti.

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 2018

Forma	Počet k 31.12.2018						Počet ukončených doktorantúr v r. 2018					
	Doktorandi						Ukončenie z dôvodov					
	celkový počet		z toho novoprijatí		po skúške		ukončenie úspešnou obhajobou		predčasné ukončenie		neúspešné ukončenie	
	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž
Denná zo zdrojov SAV	10	5	1	1	0	0	1	2	0	1	0	0
Denná z iných zdrojov	0	0	0	0	0	0	0	0	0	0	0	0
Externá	1	0	0	0	0	0	0	0	0	0	0	0
Spolu	11	5	1	1	0	0	1	2	0	1	0	0
Súhrn	16		1		0		3		1		0	

Uvádzajte len doktorandov organizácie ako externej vzdelávacej inštitúcie

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 2018 úspešnou obhajobou

Meno doktoranda	Forma DŠ	Mesiac, rok nástupu na DŠ	Mesiac, rok obhajoby	Číslo a názov študijného odboru	Meno a organizácia školiteľa	Fakulta udeľujúca vedeckú hodnotu
Mgr. František Andrejka	interné štúdium hraené	9 / 2014	8 / 2018	5.2.26 materiály	RNDr. Ivan Škorvánek CSc., Ústav	Fakulta materiálov, metalurgie a

	z prostriedkov SAV				experimentálnej fyziky SAV	recyklácie TUKE
Mgr. Jozefína Majorošová	interné štúdium hradené z prostriedkov SAV	9 / 2012	8 / 2018	4.1.3 fyzika kondenzovaných látok a akustika	Doc. RNDr. Peter Kopčanský CSc., Ústav experimentálnej fyziky SAV	Prírodovedecká fakulta UPJŠ
Mgr. Renáta Verbová	interné štúdium hradené z prostriedkov SAV	9 / 2013	8 / 2018	5.2.26 materiály	RNDr. Viktor Kavečanský CSc., Ústav experimentálnej fyziky SAV	Fakulta materiálov, metalurgie a recyklácie TUKE

Zoznam interných a externých doktorandov je uvedený v prílohe A.

3.4. Medzinárodné doktorandské štúdium

Tabuľka 3d Počet študentov v medzinárodných programoch doktorandského štúdia

Cotutelle	Co-direction	Iné	Zahraniční doktorandi
0	0	0	0

3.5. Zoznam akreditovaných študijných odborov s uvedením VŠ

Tabuľka 3e Zoznam akreditovaných študijných odborov s uvedením univerzity/vysokej školy a fakulty, kde sa doktorandský študijný program uskutočňuje

Názov študijného odboru (ŠO)	Číslo ŠO	Doktorandské štúdium uskutočňované na (univerzita/vysoká škola a fakulta)
biofyzika	4.1.12	Prírodovedecká fakulta UPJŠ
všeobecná fyzika a matematická fyzika	4.1.2	Prírodovedecká fakulta UPJŠ
fyzika kondenzovaných látok a akustika	4.1.3	Prírodovedecká fakulta UPJŠ
materiály	5.2.26	Fakulta materiálov, metalurgie a recyklácie TUKE
fyzikálne inžinierstvo	5.2.48	Technická univerzita v Košiciach

Tabuľka 3f Účasť na pedagogickom procese

Menný prehľad pracovníkov, ktorí boli menovaní do spoločných 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
Prof. Ing. Marián Antalík, DrSc. (biochémia)	Prof. Ing. Marián Antalík, DrSc. (Fakulta chemickej a potravinárskej technológie STU)	doc. Mgr. Iryna Antal, PhD. (IIa)
Prof. Ing. Marián Antalík, DrSc. (biochémia)	Prof. Ing. Marián Antalík, DrSc. (Prírodovedecká fakulta UPJŠ)	RNDr. Zuzana Bednáriková, PhD. (IIa)
Doc. RNDr. Dušan Bruncko, CSc. (jadrová a subjadrová fyzika)	Prof. Ing. Karel Kudela, DrSc. (Vysoká škola bezpečnostného manažérstva v Košiciach)	RNDr. Michal Rajňák, PhD. (IIa)
Doc. RNDr. Dušan Bruncko, CSc. (jadrová a subjadrová fyzika)	Prof. RNDr. Marián Reiffers, DrSc. (Fakulta humanitných a prírodných vied PU)	RNDr. Miroslav Gančár (RNDr., Prírodovedecká fakulta UPJŠ)
Ing. Pavel Diko, DrSc. akademik US (fyzika kondenzovaných látok a akustika)	Prof. RNDr. Marián Reiffers, DrSc. (Prešovská univerzita v Prešove)	
Ing. Pavel Diko, DrSc. akademik US (materiály)	Prof. RNDr. Peter Samuely, DrSc. (Technická univerzita v Košiciach)	
RNDr. Pavol Farkašovský, DrSc. (všeobecná fyzika a matematická fyzika)		
RNDr. Pavol Farkašovský, DrSc. (všeobecná fyzika a matematická fyzika)		
Doc. RNDr. Karol Flachbart,		

DrSc. (fyzika kondenzovaných látok a akustika)		
Doc. RNDr. Karol Flachbart, DrSc. (fyzikálne inžinierstvo)		
doc. RNDr. Zuzana Gažová, CSc. (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)		
Prof. Ing. Karel Kudela, DrSc. (jadrová a subjadrová fyzika)		
MUDr. Andrey Musatov, DrSc. (biofyzika)		
MUDr. Andrey Musatov, DrSc. (biochémia)		
Prof. RNDr. Marián Reiffers, DrSc. (všeobecná fyzika a matematická fyzika)		
Prof. RNDr. Peter Samuely, DrSc. (fyzika kondenzovaných látok a akustika)		
RNDr. Marián Sedlák, DrSc. (mineralurgia)		
RNDr. Peter Skyba, DrSc. (fyzika kondenzovaných látok a akustika)		
RNDr. Marián Slivka, CSc. (jadrová a subjadrová fyzika)		
RNDr. Milan Stehlík, DrSc. (jadrová a subjadrová fyzika)		
RNDr. Ivan Škorvánek, CSc. (fyzika kondenzovaných látok a akustika)		
RNDr. Ivan Škorvánek, CSc. (fyzikálne inžinierstvo)		
Doc. Ing. Zoltán Tomori, CSc. (kybernetika)		

3.6. Údaje o pedagogickej činnosti

Tabuľka 3g Prednášky a cvičenia vedené v roku 2018

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	8	1	5	0
Celkový počet hodín v r. 2018	274	30	76	0

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

Tabuľka 3h Aktivity pracovníkov na VŠ

1.	Počet pracovníkov, ktorí pôsobili ako vedúci alebo konzultanti diplomových a bakalárskych prác	18
2.	Počet vedených alebo konzultovaných diplomových a bakalárskych prác	38
3.	Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)	13
4.	Počet školených doktorandov (aj pre iné inštitúcie)	14
5.	Počet oponovaných dizertačných a habilitačných prác	9
6.	Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce	6
7.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác	4
8.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác	9
9.	Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti v inauguračnom alebo habilitačnom konaní na vysokých školách	3

3.7. Iné dôležité informácie k pedagogickej činnosti

4. Medzinárodná vedecká spolupráca

4.1. Medzinárodné vedecké podujatia

4.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2018 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

20th Small Triangle Meeting, Ptíčie, Slovensko, 70 účastníkov, 07.10.-10.10.2018

V dňoch 7. – 10. októbra 2018 sa v Ptíčom uskutočnil jubilejný, 20-ty ročník medzinárodného seminára "Small Triangle Meeting", ktorého sa zúčastnili 70 vedci, z toho 32 zahraničných - z Ukrajiny, Čiech, Ruska, Poľska a Bieloruska. Nosnými témami podujatia boli teoretická a fenomenologická fyzika, vrátane rôznych výskumných oblastí, ako je fyzika tuhých látok a komplexných fyzikálnych systémov, nelineárne dynamické systémy, jadrová a atómová fyzika, fyzika častíc s vysokou energiou, atď. Získané teoretické a experimentálne výsledky boli prezentované v prevažnej väčšine vo forme prehľadných a populárno-vedeckých prednášok.

Recent Advancements in Nanoscience and Technology, Chennai, India, 07.12.-07.12.2018

150 účastníkov

4.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2019 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

17-th International Symposium Metallography & Fractography 2019, Nový Smokovec, 24.04.-26.04.2019, (Kornel Csach, 055/7922210, csach@saske.sk)

These conferences have featured as important events for presentation of results achieved in materials science and engineering. The conference focus widened long ago to cover not only the field of metal materials, but also numerous modern materials and technologies as well.

17th Czech and Slovak Conference on Magnetism June 3-7, 2019 Košice, Slovakia

300 účastníkov, 03.06.-07.06.2019, (Jozef Marcin, 055/ 7922276, marcin@saske.sk)

11th International Conference "Structure and stability of Biomacromolecules" SSB2019, Košice, Slovensko

~ 60 účastníkov, 03.09.-06.09.2019, (Diana Fedunová, 055/7204131, fedunova@saske.sk)

Cryocourse 2019, Košice a Stará Lesná, Slovensko

50 účastníkov, 18.09.-29.09.2019, (Peter Skyba, 055/7922303, 7922309, skyba@saske.sk)

Cryocourses - European Microkelvin Platform

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
Bruncko Dušan	1	0	1
Hnatič Michal	0	1	0
Kudela Karel	0	0	3

Kuľková Ingrid	0	1	0
Murín Pavol	0	1	0
Samuely Peter	0	0	2
Stríženec Pavol	0	2	0
Timko Milan	0	1	0
Urban Jozef	0	1	0
Spolu	1	7	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 komitétu)

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.

Americká fyzikálna spoločnosť (funkcia: člen)

Nemecká fyzikálna spoločnosť (funkcia: člen)

RNDr. Miroslav Gančár

COST: NGP-net (funkcia: člen)

doc. RNDr. Zuzana Gažová, CSc.

European Biophysical Societies Association (funkcia: člen)

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

Programový výbor pre tuhé látky, SÚJV, Dubna, Ruská federácia (funkcia: člen)

Vedecká Rada Spojeného Ústavu Jadrového Výskumu, Dubna, Ruská federácia (funkcia: člen)

Vedecko-technická Rada Spojeného Ústavu Jadrového Výskumu, Dubna, Ruská federácia (funkcia: člen)

RNDr. Viktor Kavečanský, CSc.

Kryštalografická spoločnosť (funkcia: člen)

Prof. Ing. Karel Kudela, DrSc.

COSPAR (funkcia: predseda NK)

International Academy of Astronautics (funkcia: člen zvolený)

URSI (funkcia: člen NK)

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)

Prof. RNDr. Peter Samuely, DrSc.

Academia Europaea Scientiarum et Artium, Salzburg (funkcia: riadny 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. Marián Slivka, CSc.

SCOSTEP (funkcia: člen NK)

RNDr. Ivan Škorvánek, CSc.

American Assoc. for Advancement of Science (funkcia: člen)

Humboldtov klub v SR (funkcia: podpredseda)

International Advisory Committee for Soft Magnetic Materials (funkcia: člen)

Magnetism Committee TMS Society USA (funkcia: člen)

Doc. Ing. Zoltán Tomori, CSc.

IEEE - Computer Society (funkcia: affiliat.)

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	JINR-CERN	2
Kudela Karel	MAD-SAV	1

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

ÚEF SAV má tradične veľmi úzku spoluprácu s SÚJV Dubna v širokom spektre výskumu - v oblasti tuhých látok, teoretickej fyziky, informačných technológií zameraných hlavne na výskum v oblasti fyziky vysokých energií a biofyzike. Táto spolupráca sa realizuje hlavne prostredníctvom viacročných a trojmesačných študijno-pracovných pobytov pracovníkov nášho ústavu v SÚJV Dubna, ktorí sa stavajú členmi medzinárodných výskumných kolektívov.

V roku 2018 sa uskutočnilo 14 uvedených pobytov do Laboratória neutrónovej fyziky (LNF), Laboratória teoretickej fyziky (LTF), Laboratória informačných technológií (LIT), Laboratória rádiobiológie (LRB), Laboratória fyziky vysokých energií (LFVE) a Laboratória jadrových problémov (LNP).

Celkovo bolo opublikovaných 32 spoločných prác, z toho 12 v karentovaných časopisoch (Phys. Rev E, Nucl. Phys B, Physica A, E. Phys. J. a iné). Spoločné výsledky boli prezentované na rôznych medzinárodných konferenciách vo forme 9 prezentácií. Prof. M. Hnatič, dlhodobo pracujúci v SÚJV Dubna pôsobí ako zástupca riaditeľa LTF, je členom Vedeckej rady SÚJV, a členom Vedecko-technických rád LTF a LIT.

Účast' v projekte COST "NGP-NET - Neglobulárne proteíny - od sekvencie ku štruktúre, funkcii a aplikácii v molekulárnej normálnej a patologickej fyziológii" poskytuje platformu na spoluprácu s laboratóriami z 28 krajín, zaoberajúcich sa štúdiom mechanizmov agregácie natívne rozbalených proteínov a "tandem-repeat" proteínov. Vďaka účasti v tomto projekte sme sa zapojili do prípravy nového projektu v rámci výzvy COST H2020, ktorý bude podaný začiatkom roka 2019.

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. Vedná politika

Ústav experimentálnej fyziky Slovenskej akadémie vied v Košiciach je jedným z najvýznamnejších centier výskumu fyzikálneho zamerania na Slovensku. Toto postavenie je možné podložiť každoročnými hodnoteniami, ktoré sa uskutočňujú za účasti členov Predsedníctva SAV. Vedecká obec ústavu, jej jednotliví členovia sú za svoje príspevky uznávaní nielen na národnej, ale aj na medzinárodnej úrovni. Význam v medzinárodnom meradle podčiarkuje nielen skutočnosť, že väčšina výskumných aktivít sa uskutočňuje v medzinárodnej spolupráci s uznávanými inštitúciami a vedeckými centrami v Európe, USA a vo svete, ale aj množstvo spoločných publikácií a dohôd o spoločnom výskume. Mnohé z dosiahnutých výsledkov boli financované z medzinárodných zdrojov.

Pokračujúcou víziou ústavu je ďalej rozvíjať jej vedecký potenciál, aby sa mohol stať jedným z významných pracovísk v oblasti fyziky v Európe. Na dosiahnutie tohto hlavného cieľa ÚEF SAV sú definované čiastkové úlohy za účelom zlepšovania kvality výskumu. Ich napĺňanie bude kontrolované. Za týmto účelom bol v roku 2017 vytvorený a následne Vedeckou Radou ÚEF schválený "Plán Akčných Opatrení", ktorý zahŕňa aj implementáciu odporúčaní hodnotiaceho "Meta-panelu" na nasledujúce akreditačné obdobie.

Ciele a plány jednotlivých oddelení Ústavu experimentálnej fyziky na nasledujúce obdobie sú uvedené v schválenom "Pláne Akčných Opatrení" v Prílohe I. Napĺňanie Strategického plánu by malo viesť k skvalitňovaniu a zefektívňovaniu činnosti Ústavu experimentálnej fyziky, k zatraktívneniu doktorandského štúdia a dosahovaniu lepších výsledkov v projektovej a publikačnej oblasti.

V nadväznosti na vytvorený akčný plán a požiadavku medzinárodnej akreditácie bola zriadená medzinárodná poradná komisia (International Advisory Board). Prvé stretnutie na pôde ústavu sa uskutočnilo 5.-6.11.2018. K stretnutiu bol pripravený dvojročný report jednotlivých výskumných skupín. Cieľom stretnutia medzinárodne uznávaných odborníkov bolo oboznámenie sa s výskumom na ústave, s jeho organizačným členením a plánmi na nasledujúce obdobie. Boli identifikované nielen silné, ale aj slabé stránky ústavu, jeho fungovania. Po stretnutí bolo ústavu doručené písomné vyjadrenie a odporúčania členov IAB za účelom zlepšenia postavenia ústavu nielen na národnej, ale aj na medzinárodnej úrovni.

Členmi IAB bolo navrhnuté iniciovať - čiastočné organizačné zmeny a podpora vzniku výskumných skupín s vysokou úrovňou autonómie (spájanie skupín s veľmi podobným výskumom), ktoré budú spravované vedúcimi skupín a koordinované vedúcimi jednotlivých oddelení; s cieľom vytvoriť nové dynamické vedecké tímy. Tieto tímy by mali byť vytvárané s ohľadom na oblasť výskumu, personálne kapacity jednotlivcov a schopností účelovo sa re/organizovať pri príprave a riešení projektov MŠ SR (štátne programy, projekty ŠF), VEGA, APVV, rámcových programov EÚ, a pri spoluprákach s domácimi a zahraničnými partnermi.

V snahe získať mladých kolegov sa pracovníci ústavu aktívne zapájajú aj do pedagogickej činnosti na univerzitách (prednášky, cvičenia, vedenie značného počtu bakalárskych a diplomových prác) a propagácie ústavu formou rôznych popularizačných aktivít. Okrem toho sa budeme snažiť o znovuzískanie študijného odboru „Jadrová a subjadrová fyzika“, ktorý patrí k nosným témam výskumu na ústave.

Neoddeliteľnou súčasťou vednej politiky je aj rozvoj infraštruktúry. Ústav cielene buduje svoju infraštruktúru s ohľadom na špecifické požiadavky výskumu, od laboratórií na prípravu vzoriek až po laboratória na detailnú charakterizáciu pripravených materiálov a štúdium ich potenciálnych aplikácií. Prevádzka týchto laboratórií je náročná nielen finančne, ale aj personálne, s čím súvisia aj ambície ústavu v plánovaných výzvach na podporu vedeckých kapacít. Snahou je aj poskytovať kapacity a expertízu pre partnerov na Slovensku, ako aj zapájanie ústavu prostredníctvom technickej infraštruktúry do medzinárodných zväzkov. Umožnenie prístupu k zariadeniam a prístrojom na jednotlivých oddeleniach ÚEF SAV je možné aj na základe spolupráce, dohôd a vypracovaných štatútov používania konkrétnych zariadení.

NR SR schválila dňa 7.9.2017 Zákon č. 243/2017 Z. z. o verejnej výskumnej inštitúcii.

Organizácie SAV budú transformované na v. v. i. od 1.7.2018. V roku 2017 a 2018 prebiehali jednotlivé kroky pre zabezpečenie transformácie ÚEF SAV na v. v. i. Na základe diskusie bol definovaný predmet hlavnej činnosti ÚEF SAV ako verejnej výskumnej inštitúcie a predmet činností verejnej výskumnej inštitúcie podľa § 2 ods. 1. Podľa predpisov k transformácii na v. v. i., mal mať ústav mať 5 členov správnej rady (riaditeľ a 4 ďalší volení členovia) a 11 členov vedeckej rady, z toho 4 externí členovia. Vzhľadom k tomu, že transformácia ústavu neprebehla v súlade s plánom, chceme upozorniť na značné nároky na administratívne a vedecké kapacity ústavu, ktoré boli žiaľ nie naším zavinením premárnené.

6. Spolupráca s univerzitami/vysokými školami, štátnymi a neziskovými inštitúciami okrem aktivít uvedených v kap. 2, 3, 4

6.1. Spolupráca s univerzitami/VŠ (fakultami)

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UPJŠ

Druh spolupráce (spoločné pracovisko alebo iné): Spoločné experimenty a využívanie experimentálnej aparatúry

Začiatok spolupráce: 2014

Zameranie: Štúdium mitochondriálnych elektrón-transportných proteínov

Zhodnotenie: Spoločný projekt VEGA - Prírodovedecká fakulta UPJŠ je spoluriešiteľská organizácia na projekte

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UPJŠ

Druh spolupráce (spoločné pracovisko alebo iné): Spoločné pracovisko

Začiatok spolupráce: 1969

Zameranie: Fyzika veľmi nízkych teplôt

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

Druh spolupráce (spoločné pracovisko alebo iné): Spoločné projekty a využívanie experimentálnej techniky

Začiatok spolupráce: 1999

Zameranie: Fyzika tuhých látok

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

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

Druh spolupráce (spoločné pracovisko alebo iné): Spoločné využívanie experimentálnej aparatúry

Začiatok spolupráce: 2008

Zameranie: analýza obrazu

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

Druh spolupráce (spoločné pracovisko alebo iné): Spoločný medzinárodný projekt

Začiatok spolupráce: 2015

Zameranie: Kozmická fyzika, rozpoznávanie vzorov

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

Druh spolupráce (spoločné pracovisko alebo iné): Spoločné využívanie experimentálnej techniky

Začiatok spolupráce: 1969

Zameranie: Materiálová fyzika

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

Názov univerzity/vysokej školy a fakulty: Letecká fakulta TUKE

Druh spolupráce (spoločné pracovisko alebo iné): Spoločné experimenty a vzájomné využívanie experimentálnej techniky.

Začiatok spolupráce: 2016

Zameranie: Spoločné experimenty a vzájomné využívanie experimentálnej techniky.

Zhodnotenie: Spoločný VEGA projekt s uvedeným zameraním.

Názov univerzity/vysokej školy a fakulty: Univerzita Pavla Jozefa Šafárika v Košiciach

Druh spolupráce (spoločné pracovisko alebo iné): Spoločné experimenty a využívanie experimentálnej aparatury

Začiatok spolupráce: 2018

Zameranie: Diagnostický potenciál slz v očnom lekárstve

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

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

Druh spolupráce (spoločné pracovisko alebo iné): Spoločné experimenty a využívanie experimentálnej aparatury

Začiatok spolupráce: 2011

Zameranie: Štúdium inhibítorov amyloidnej agregácie proteínov

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

6.2. Významné aplikácie výsledkov výskumu v spoločenskej praxi alebo vyriešenie problému pre štátnu alebo neziskovú inštitúciu

6.3. Iná činnosť využiteľná pre potreby spoločenskej praxe

7. Spolupráca s aplikačnou a hospodárskou sférou okrem aktivít uvedených v kap. 2, 3, 4

7.1. Spoločné pracoviská s aplikačnou sférou

7.2. Kontraktový – zmluvný výskum (vrátane zahraničných kontraktov)

7.3. Iná činnosť využiteľná pre potreby hospodárskej praxe

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 Kozmické Aktivity pri Ministerstve školstva SR	člen vedeckej rady
prof. Dr.h.c. RNDr. Michal Hnatič, DrSc.	Výbor pre spoluprácu SR s SÚJV Dubna	člen
RNDr. Ivan Králik, CSc.	Výbor pre spoluprácu s CERN	podpredseda
Prof. RNDr. Peter Samuely, DrSc.	Hodnotiaca komisia pre hodnotenie činnosti organizácií vykonávajúcich výskum a vývoj pri Ministerstve školstva, vedy, výskum a športu SR	člen
RNDr. Pavol Stríženec, CSc.	Výbor pre spoluprácu s CERN	člen

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

Názov expertízy: Posudzovanie projektu

Adresát expertízy: APVV

Spracoval: Doc. RNDr. Karol Flachbart, DrSc.

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
prof. Dr.h.c. RNDr. Michal Hnatič, DrSc.	Pracovná skupina APVV pre matematiku, fyziku a informatiku	člen
Prof. RNDr. Peter Samuely, DrSc.	Rada APVV pre prírodné vedy	predseda rady

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

9. 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	22	tlač	12	TV	14
rozhlasy	5	internet	0	exkurzie	0
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	0
iné	18				

9.2. Vedecko-organizačná činnosť

Tabuľka 9b Vedecko-organizačná činnosť

Názov podujatia	Domáca/ medzinárodná	Miesto	Dátum konania	Počet účastníkov
20th Small Triangle Meeting	medzinárodná	Ptíčie, Slovensko	07.10.-10.10.2018	70
Recent Advancements in Nanoscience and Technology	medzinárodná	Chennai, India	07.12.-07.12.2018	150

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
Spolu			

9.5. Členstvo v redakčných radách časopisov

Prof. Ing. Marián Antalík, DrSc.

Chemical papers (funkcia: člen)

Ing. Pavel Diko, DrSc. akademik US

Ceramic Sciences and Engineering (funkcia: Executive Board Member)

IEEE Transactions on Applied Superconductivity (funkcia: Guest Editor)

Superconductor Science & Technology (funkcia: Guest Editor)

Doc. RNDr. Karol Flachbart, DrSc.

Acta Electrotechnica et Informatica (funkcia: člen redakčnej rady)

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

European Phys. Journal: Web of conferences (funkcia: hosťujúci editor)

Mathematical Modelling and Geometry (funkcia: člen)

Vestnik of Saint Petersburg University (funkcia: člen)

Prof. Ing. Karel Kudela, DrSc.

Acta Electrotechnica et Informatica (funkcia: člen redakčnej rady)
Asian Journal of Science & Innovative Research (funkcia: člen editorial board)

MUDr. Andrey Musatov, DrSc.

Chemical Papers (funkcia: Vedecký Editor)

Prof. RNDr. Peter Samuely, DrSc.

Physica C (funkcia: člen Advisory board)

RNDr. Peter Skyba, DrSc.

Acta Physica Slovaca (funkcia: člen)

RNDr. Ivan Škorvánek, CSc.

ISRN Nanotechnology (funkcia: člen editorial board)

RNDr. Milan Timko, CSc.

Slovenská fyzikálna spoločnosť (funkcia: člen výboru)

9.6. Činnosť v domácich vedeckých spoločnostiach

Prof. Ing. Marián Antalík, DrSc.

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

RNDr. Ivan Baťko, CSc.

Slovenská fyzikálna spoločnosť (funkcia: člen)

RNDr. Zuzana Bednáriková, PhD.

Slovenská biofyzikálna spoločnosť (funkcia: člen)

RNDr. Hana Čenčariková, PhD

Slovenská fyzikálna spoločnosť (funkcia: člen)

RNDr. Diana Fedunová, PhD.

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

Doc. RNDr. Karol Flachbart, DrSc.

Slovenská fyzikálna spoločnosť (funkcia: člen)

Doc. RNDr. Slavomír Gabáni, PhD.

Slovenská fyzikálna spoločnosť (funkcia: člen)

RNDr. Miroslav Gančár

Slovenská biofyzikálna spoločnosť (funkcia: člen)

doc. RNDr. Zuzana Gažová, CSc.

Slovenská biofyzikálna spoločnosť (funkcia: člen výboru)

Slovenská biofyzikálna spoločnosť (funkcia: člen)

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

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

Atestačná komisia Astronomického ústavu SAV (funkcia: člen)

Vedecká rada Fyzikálneho ústavu SAV (funkcia: člen)

RNDr. Alena Juríková, CSc.

Slovenská fyzikálna spoločnosť (funkcia: člen)

Prof. Ing. Karel Kudela, DrSc.

Vedecká rada VŠBM Košice (funkcia: člen)

RNDr. Jozef Marek, PhD.

Slovenská biofyzikálna spoločnosť (funkcia: člen)

RNDr. Marián Mihalík, CSc.

Slovenská fyzikálna spoločnosť (funkcia: člen)

Prof. RNDr. Marián Reiffers, DrSc.

Národný komitét IUPAP (funkcia: člen)

Slovenská fyzikálna spoločnosť (funkcia: predseda)

RNDr. Peter Skyba, DrSc.

Slovenská fyzikálna spoločnosť (funkcia: člen)

RNDr. Marián Slivka, CSc.

JSMF (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.

Odborná skupina Magnetizmu pri Slovenskej Fyzikálnej Spoločnosti (funkcia: Vedúci)

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

10. Činnosť knižnično-informačného pracoviska

10.1. Knižničný fond

Tabuľka 10a Knižničný fond

Knižničné jednotky spolu		3 203
z toho	knihy a zviazané periodiká	3 161
	audiovizuálne dokumenty	
	elektronické dokumenty (vrátane digitálnych)	7
	mikroformy	
	iné špeciálne dokumenty - dizertácie, výskumné správy	23
	Rukopisy, vzácne tlače	
Počet titulov dochádzajúcich periodík		
z toho zahraničné periodiká		
Ročný prírastok knižničných jednotiek		
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)		1 100
v tom z r. 1	prezenčné výpožičky	10
	absenčné výpožičky	1 090
v tom z r. 1	odborná literatúra pre dospelých	1 100
	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	108
Návštevníci knižnice spolu (bez návštevníkov podujatí)	70

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 €	1 925,14 €

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.

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

11.3. Členstvo vo vedeckých kolégiách SAV

Prof. Ing. Marián Antalík, DrSc.

- VK SAV pre chemické vedy (Podpredseda kolégia SAV)

Ing. Pavel Diko, DrSc. akademik US

- VK SAV pre elektroniku, materiálový výskum a technológie (člen kolégia)

doc. RNDr. Zuzana Gažová, CSc.

- VK SAV pre matematiku, fyziku a informatiku (člen)

Doc. RNDr. Peter Kopčanský, CSc.

- VK SAV pre matematiku, fyziku a informatiku (podpredseda kolégia)

Prof. Ing. Karel Kudela, DrSc.

- VK SAV pre vedy o Zemi a vesmíre (člen kolégia)

11.4. Členstvo v komisiách SAV

RNDr. Pavol Farkašovský, DrSc.

- Akreditačná komisia SAV (člen)

Ing. Viktor Kočan

- Komisia SAV pre informačné a komunikačné technológie (člen)

Prof. RNDr. Peter Samuely, DrSc.

- Komisia SAV pre duševné vlastníctvo, inovácie a technologický transfer (predseda)

Mgr. Pavol Szabó, CSc.

- Komisia SAV pre komunikáciu a médiá (člen komisie)

11.5. Členstvo v orgánoch VEGA

Ing. Pavel Diko, DrSc. akademik US

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

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

- Komisia VEGA, č. 1 (člen)

Doc. RNDr. Peter Kopčanský, CSc.

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

RNDr. Ivan Škorvánek, CSc.

- Komisia VEGA č. 7 (člen komisie)

RNDr. Milan Timko, CSc.

- Komisia VEGA č. 5 pre elektrotechniku, automatizáciu a riadiace systémy a príbuzné odbory informačných a komunikačných technológií (člen)

12. Hospodárenie organizácie

12.1. Výdavky PO SAV

Tabuľka 12a Výdavky PO SAV (v €)

V ý d a v k y	Skutočnosť k 31.12.2018 spolu	v tom:			
		zo ŠR od zriaďovateľ a	z vlastných zdrojov	z iných zdrojov	z toho: ŠF EÚ
Výdavky spolu	2 917 387,76	2 348 879,28	7 625,72	560 882,74	
Bežné výdavky	2 857 079,91	2 338 571,28	7 625,72	510 882,91	
v tom:					
mzdy (610)	1 438 493,10	1 306 256		132 237,10	
poistné a príspevok do poisťovní (620)	501 595,57	453 653,04	1 581,72	46 360,81	
tovary a služby (630)	763 034,47	458 589,85	5 749,70	298 694,92	
z toho: časopisy					
VEGA projekty	188 581	188 581			
MVTS projekty	110 036	110 036			
CE					
vedecká výchova	6 920	6 920			
bežné transfery (640)	153 956,77	120 072,39	294,30	33 590,08	
z toho: štipendiá	115 094,50	115 094,50			
transfery partnerom projektov	33 377,30		294,30	33 083	
Kapitálové výdavky	60 307,85	10 308		49 999,85	
v tom:					
obstarávanie kapitálových aktív	60 307,85	10 308		49 999,85	
kapitálové transfery					
z toho: transfery partnerom projektov					

12.2. Príjmy PO SAV

Tabuľka 12b Príjmy PO SAV (v €)

P r í j m y	Skutočnosť k 31.12.2018 spolu	v tom:	
		rozpočtové	z mimorozp. zdrojov
Príjmy spolu	2 935 326,31	2 355 800,22	579 526,09
Nedaňové príjmy	2 371 374,46	2 355 800,22	15 574,24
v tom:			
príjmy z prenájmu			
príjmy z predaja výrobkov a služieb	1 500		1 500
iné	14 074,24		14 074,24
Granty a transfery (mimo zdroja 111)	563 951,85		563 951,85
v tom:			
tuzemské			
z toho: APVV	405 588		405 588
iné	128 499,85		128 499,85
zahraničné	29 864		29 864
z toho: projekty rámcového programu EÚ			
iné			

13. Nadácie a fondy pri organizácii SAV

14. Iné významné činnosti organizácie SAV

15. Vyznamenania, ocenenia a ceny udelené pracovníkom organizácie v roku 2018

15.1. Domáce ocenenia

15.1.1. Ocenenia SAV

Bílek Richard - Kul'ková Ingrid - Straka Miloslav - Vaľa Martin

Cena SAV za budovanie infraštruktúry pre vedu

Oceňovateľ: Predsedníctvo SAV

Opis: za vybudovanie, rozvoj a prevádzku vysokovýkonného počítačového uzla počítačovej siete Worldwide LHC Grid používanej vo fyzike vysokých energií na spracovanie dát experimentov na Veľkom hadrónovom urýchl'ovači v CERN.

Bednáriková Zuzana – Matúš Orendáč

I. miesto v Súťaži mladých vedeckých pracovníkov ÚEF SAV

Lucia Balejčíková

II. miesto v Súťaži mladých vedeckých pracovníkov ÚEF SAV

Michal Kopčík

III. miesto v Súťaži mladých vedeckých pracovníkov ÚEF SAV

15.1.2. Iné domáce ocenenia

Bednáriková Zuzana

cena Slovenskej biofyzikálnej spoločnosti pre mladého vedeckého pracovníka do 35 rokov

Oceňovateľ: Slovenská biofyzikálna spoločnosť

Gančár Miroslav

TOP 15 Flash prezentácii - Interaktívna konferencia mladých vedcov: PREVEDA 2018

Oceňovateľ: PREVEDA

Skyba Peter

Cena SFS 2018 za vedu

Oceňovateľ: Slovenská fyzikálna spoločnosť

Opis: Cena Slovenskej fyzikálnej spoločnosti za vedu v roku 2018

15.2. Medzinárodné ocenenia

Bruncko Dušan

Čestná odborová medaila Ernsta Macha za zásluhy vo fyzikálnych vedách

Oceňovateľ: Akadémia vied Českej republiky

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

Pracovníci ústavu poskytovali informácie na požiadanie redaktorov rôznych tlačových a audiovizuálnych médií, čo sa odzrkadlilo vo vedecko - popularizačnej činnosti ústavu. Okrem toho boli vybavené aj žiadosti o poskytnutie odborných informácií z radov laickej verejnosti.

17. Problémy a podnety pre činnosť SAV

1. Upozorňujeme na problémy s "neskorým" pridelovaním schválených finančných prostriedkov na všetky druhy grantových projektov v kalendárnom roku, čo značne komplikuje nielen plynulé a efektívne nakladanie s finančnými prostriedkami, ale zbytočne zvyšuje záťaž na riešiteľský kolektív a plnenie harmonogramu etáp riešenia projektov. Uvítali by sme rovnomerné čerpanie štátnych finančných prostriedkov v priebehu roka.
2. Štrukturálne fondy EÚ predstavujú síce veľmi významný, ale časovo limitovaný zdroj prostriedkov značného skvalitnenia prístrojovej základne, ale vôbec neposkytujú prostriedky na ich prevádzku, údržbu a ďalší rozvoj. Z tohto dôvodu je nevyhnutné, aby Agentúra na podporu výskumu a vývoja pravidelne a v dostatočnom objeme prostriedkov plnila svoju funkciu hlavného zdroja financovania trvalého a udržateľného rozvoja vedy a výskumu na Slovensku.
3. Zásadný problém vidíme taktiež v extrémne vysokej administratívnej záťaži, spojenej hlavne s riešením a manažovaním projektov; čo nie je zo strany nadriadených orgánov nijako špeciálne kompenzované. Výsledkom je, že potrebnú aktivitu vykonávajú hlavne vedeckí pracovníci nad rámec alebo na úkor svojich odborných aktivít. Zásadným problémom aj naďalej ostáva oblasť verejného obstarávania. K tomu je možné pridať aj významný problém s plánovaním a nákupom výpočtovej techniky; "absurdnou" administratívnou záťažou a schvaľovaním v samostatnej kapitole.
4. Pracovníci ÚEF SAV priamo zapojení do kolaborácii CERN (ALICE a ATLAS), ale aj vedenie ústavu žiada prerokovanie efektívnosti zadávania publikácií a citácií vzniknutých v rámci týchto kolaborácií. Navrhujeme udelenie výnimky, aby mohli byť publikácie a citácie veľkých kolaborácií priložené k VS ako extra príloha; pričom počet výstupov bude zohľadnený v tabuľkách publikačnej činnosti (Kap. 2.4, tabuľky 2e-f-g).
5. S ohľadom na prepočítavanie podielu jednotlivých pracovníkov pri publikáciách s kolektívom autorov nad 15 (týka sa hlavne kolaboračných publikácií) považujeme menovateľ "15" za vysoký. Po prepočte sa tak autori zapojení do kolaborácií dostávajú pod priemer ústavu, čo je z nášho pohľadu nespravodlivé a neadekvátne. Preto navrhujeme pri prepočte podielov použiť delenie "10".
6. Uvítali by sme aktívnejšiu komunikáciu členov P SAV a Snemu s jednotlivými ústavmi; vydávanie metodických usmernení v dostatočnom predstihu a zníženie počtu zasielaných údajov (výstupov), ktoré je možné dohľadať aj vo výročných správach jednotlivých ústavov.

Správu o činnosti organizácie SAV spracoval(i):

Doc. RNDr. Peter Kopčanský, CSc., +421 55 7922201
RNDr., Ing. Katarína Šipošová, PhD., 055/7922345

Riaditeľ organizácie SAV

Predseda vedeckej rady

.....
Doc. RNDr. Peter Kopčanský, CSc.

.....
RNDr. Pavol Bobík, PhD

Prílohy

Príloha A

Zoznam zamestnancov a doktorandov organizácie k 31.12.2018

Zoznam zamestnancov podľa štruktúry (nadväzne na údaje v Tabuľke 1a)

	Meno s titulmi	Úväzok (v %)	Ročný prepočítaný úväzok
Vedúci vedeckí pracovníci DrSc.			
1.	Prof. Ing. Marián Antalík, DrSc.	50	0.50
2.	Ing. Pavel Diko, DrSc. akademik US	100	1.00
3.	RNDr. Pavol Farkašovský, DrSc.	100	1.00
4.	Doc. RNDr. Karol Flachbart, DrSc.	100	1.00
5.	prof. Dr.h.c. RNDr. Michal Hnatič, DrSc.	50	0.12
6.	Prof. Ing. Karel Kudela, DrSc.	25	0.25
7.	MUDr. Andrey Musatov, DrSc.	100	1.00
8.	Prof. RNDr. Marián Reiffers, DrSc.	10	0.10
9.	Prof. RNDr. Peter Samuely, DrSc.	50	0.50
10.	RNDr. Marián Sedlák, DrSc.	100	1.00
11.	RNDr. Peter Skyba, DrSc.	100	1.00
Vedúci vedeckí pracovníci CSc., PhD.			
1.	Doc. RNDr. Dušan Bruncko, CSc.	100	1.00
2.	RNDr. Kornel Csach, CSc.	100	1.00
3.	Doc. RNDr. Peter Kopčanský, CSc.	100	1.00
4.	RNDr. Jozef Kováč, CSc.	100	1.00
5.	RNDr. Marián Mihalik, CSc.	100	1.00
6.	RNDr. Ivan Škorvánek, CSc.	100	1.00
7.	RNDr. Milan Timko, CSc.	100	1.00
8.	doc., RNDr. Jozef Urban, CSc.	1	0.01
Samostatní vedeckí pracovníci			
1.	doc. Mgr. Iryna Antal, PhD.	100	1.00
2.	Mgr. Vitaliy Antal, PhD.	100	1.00
3.	RNDr. Andrea Antošová, PhD.	100	1.00
4.	Ing. Ján Baláž, PhD.	100	1.00
5.	RNDr. Ivan Baťko, CSc.	100	1.00
6.	RNDr. Marianna Baťková, PhD.	100	1.00
7.	RNDr. Zuzana Bednáriková, PhD.	100	1.00

8.	RNDr. Pavol Bobík, PhD	100	1.00
9.	RNDr. Hana Čenčariková, PhD	100	1.00
10.	RNDr. Marcel Človečko, PhD.	100	1.00
11.	RNDr. Diana Fedunová, PhD.	100	1.00
12.	Doc. RNDr. Slavomír Gabáni, PhD.	100	1.00
13.	doc. RNDr. Zuzana Gažová, CSc.	100	1.00
14.	RNDr. Marián Jurčišin, PhD.	100	0.96
15.	RNDr. Eva Jurčišinová, PhD.	100	0.96
16.	RNDr. Alena Juríková, CSc.	100	1.00
17.	RNDr. Jozef Kačmarčík, PhD	100	1.00
18.	RNDr. Peter Kaliňák, PhD.	100	1.00
19.	RNDr. Viktor Kavečanský, CSc.	54	0.77
20.	Ing. Martina Koneracká, CSc.	100	1.00
21.	RNDr. Ivan Králik, CSc.	100	1.00
22.	RNDr. Martin Kupka, CSc.	100	1.00
23.	RNDr. Jozef Marcin, PhD	100	1.00
24.	RNDr. Jozef Marek, PhD.	100	1.00
25.	RNDr. Matúš Mihálik, PhD.	100	1.00
26.	Ing. Jozef Miškuf, CSc.	15	0.15
27.	Ing. Zuzana Mitróová, PhD	100	1.00
28.	RNDr. Pavol Murín, CSc.	1	0.00
29.	Mgr. Ján Mušínský, PhD.	100	1.00
30.	RNDr. Ján Nemčík, CSc.	50	0.50
31.	RNDr. Blahoslav Pastirčák, CSc.	100	0.87
32.	RNDr. Richard Pinčák, PhD.	100	0.87
33.	RNDr. Gabriel Pristáš, PhD.	100	1.00
34.	RNDr. Michal Pudlák, CSc.	100	0.92
35.	RNDr. Michal Rajňák, PhD.	100	1.00
36.	RNDr. Pavol Stríženec, CSc.	100	1.00
37.	Mgr. Pavol Szabó, CSc.	100	1.00
38.	RNDr., Ing. Katarína Šipošová, PhD.	100	1.00
39.	RNDr. Natália Tomašovičová, CSc.	100	1.00
40.	Doc. Ing. Zoltán Tomori, CSc.	100	1.00
41.	RNDr. Zuzana Vargaestoková, PhD	100	1.00
42.	Ing. Vlasta Závišová, PhD.	100	1.00

43.	RNDr. Mária Zentková, CSc.	100	1.00
44.	Ing. Katarína Zmorayová, PhD	100	1.00
Vedeckí pracovníci			
1.	Ing. František Andrejka, PhD.	100	0.33
2.	RNDr. Lucia Balejčíková, PhD.	20	0.07
3.	Mgr. Ján Buša, PhD.	5	0.00
4.	RNDr. Ján Fedorišin, PhD.	5	0.00
5.	Mgr. Slavomír Hnatič, PhD.	100	0.00
6.	Ing. Marián Krivda, PhD.	5	0.00
7.	RNDr. Jana Kubacková, PhD.	100	1.00
8.	RNDr. Martina Kubovčíková, PhD.	100	1.00
9.	RNDr. Veronika Lacková, PhD.	100	1.00
10.	RNDr. Mária Lalkovičová, PhD.	5	0.00
11.	RNDr. Šimon Mackovjak, PhD.	100	1.00
12.	RNDr. Jozefína Majorošová, PhD.	100	0.33
13.	RNDr. Lukáš Mižišin, PhD.	5	0.00
14.	Ing. Matúš Molčan, PhD.	100	1.00
15.	Ing. Katarína Paulovičová, PhD.	100	1.00
16.	RNDr. Marián Putiš, PhD.	100	1.00
17.	Ing. Monika Radušovská, PhD.	100	1.00
18.	RNDr. Richard Remecký, PhD.	5	0.00
19.	RNDr. Eva Valušová, PhD.	54	0.54
20.	Ing. Liudmila Vojtkova, PhD.	100	0.84
21.	Mgr. Daniela Volochová, PhD.	100	0.01
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Ing. Emil Gažo	100	1.00
2.	RNDr. Veronika Hatiarová	5	0.04
3.	Ing. Igor Hrmo	100	1.00
4.	Mgr. Veronika Kažiková	33	0.01
5.	Mgr. Iryna Khmara	5	0.04
6.	Ing. Ingrid Kuľková	100	1.00
7.	Mgr. Ronald Langer	100	1.00
8.	RNDr. Oleksandr Onufriienko, PhD.	100	0.33
9.	Mgr. Michaela Ovadová	100	1.00
10.	Mgr. Dmytro Rak	100	1.00

11.	Mgr. Filoména Sopková	1	0.00
12.	Ing. Miloslav Straka	100	1.00
13.	Ing. Igor Strhársky	100	1.00
14.	Mgr. Roland Súra	5	0.04
15.	Ing. Jozef Špalek	1	0.00
16.	RNDr. Katarína Uličná	5	0.05
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Ing. Richard Bílek	100	1.00
2.	Ing. Marcela Brasová	100	1.00
3.	Ing. Dušan Gábor	100	0.83
4.	Ing. Viktor Kočan	100	1.00
5.	Ing. Valéria Kočanová	100	1.00
6.	Ing. Marcela Medeová	100	1.00
7.	Ing. Judita Pribišová	100	1.00
8.	Ing. Mária Sabadková	100	1.00
9.	Mgr. Jana Štetiarová	100	1.00
Odborní pracovníci ÚSV			
1.	Gabriela Hnatičová	100	1.00
2.	Anna Ivanišová	100	1.00
3.	Ivan Jurčo	54	0.54
4.	Ing. Marek Kollárik	100	1.00
5.	Imrich Piroško	100	1.00
6.	Dagmar Sedláková	100	1.00
7.	Samuel Štefánik	50	0.50
8.	Viera Štrbinová	100	1.00
9.	Dana Švarcbergerová	100	1.00
Ostatní pracovníci			
1.	Monika Baloghová	100	0.88
2.	Mária Belková	76	0.76
3.	Ján Filičko	100	1.00
4.	Štefan Fink	100	1.00
5.	Martina Ivančáková	100	1.00
6.	Ing. Jozef Jacko	80	0.80
7.	Peter Jurko	100	1.00
8.	Juraj Koribanič	50	0.50

9.	Pavol Koval	100	1.00
10.	Marcela Kurimská	100	1.00
11.	Oldřich Menšík	100	1.00
12.	Mária Pirošová	45	0.45
13.	Ján Timko	100	1.00
14.	František Vružek	100	1.00

Zoznam zamestnancov, ktorí odišli v priebehu roka

	Meno s titulmi	Dátum odchodu	Ročný prepočítaný úväzok
Samostatní vedeckí pracovníci			
1.	doc.RNDr. Vladimír Ilkovič, CSc.	9.11.2018	0.00
2.	RNDr. Tibor Kožár, CSc.	13.11.2018	0.00
3.	RNDr. Milan Stehlík, DrSc.	25.1.2018	0.00
Vedeckí pracovníci			
1.	Domenico Colella	8.2.2018	0.00
2.	RNDr. Michal Dančo, PhD.	31.1.2018	0.00
3.	RNDr. Zuzana Medvecká, PhD.	14.1.2018	0.00
4.	RNDr. František Vavrek, PhD.	30.6.2018	0.50
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Mgr. Matej Nikorovič	30.9.2018	0.25
2.	Ing. Vladimír Pavlík	28.2.2018	0.20
Odborní pracovníci ÚSV			
1.	Andrej Burík	28.2.2018	0.20
2.	Dušan Gábor	13.11.2018	0.00
Ostatní pracovníci			
1.	Božena Soroková	30.6.2018	0.38

Zoznam doktorandov

	Meno s titulmi	Škola/fakulta	Študijný odbor
Interní doktorandi hrazení z prostředkov SAV			
1.	RNDr. Miroslav Gančár	Prírodovedecká fakulta UPJŠ	4.1.12 biofyzika
2.	Ing. Petra Hajdová	Fakulta materiálov, metalurgie a recyklácie TUKE	5.2.26 materiály
3.	Mgr. Veronika Kažiková	Univerzita Pavla Jozefa Šafárika v Košiciach	4.1.12 biofyzika
4.	Ing. Michal Kopčík	Technická univerzita v Košiciach	5.2.48 fyzikálne inžinierstvo

5.	Ing. Branislav Kunca	Technická univerzita v Košiciach	5.2.48 fyzikálne inžinierstvo
6.	Mgr. Daša Lučanská	Technická univerzita v Košiciach	5.2.48 fyzikálne inžinierstvo
7.	Mgr. Miroslav Marcin	Prírodovedecká fakulta UPJŠ	4.1.3 fyzika kondenzovaných látok a akustika
8.	Mgr. Martin Menkyna	Prírodovedecká fakulta UPJŠ	4.1.2 všeobecná fyzika a matematická fyzika
9.	Mgr. Matúš Orendáč	Prírodovedecká fakulta UPJŠ	4.1.3 fyzika kondenzovaných látok a akustika
10.	Mgr. Ľubomíra Regeciová	Prírodovedecká fakulta UPJŠ	4.1.2 všeobecná fyzika a matematická fyzika
11.	Mgr. Ondrej Šofranko	Univerzita Pavla Jozefa Šafárika v Košiciach	4.1.3 fyzika kondenzovaných látok a akustika
12.	Mgr. Tomáš Tobáš	Prírodovedecká fakulta UPJŠ	4.1.3 fyzika kondenzovaných látok a akustika
13.	Mgr. Vladimír Vaník	Prírodovedecká fakulta UPJŠ	4.1.12 biofyzika
14.	Mgr. Katarína Zakuťanská	Prírodovedecká fakulta UPJŠ	4.1.3 fyzika kondenzovaných látok a akustika
Interní doktorandi hrazení z iných zdrojov			
<i>organizácia nemá interných doktorandov hrazených z iných zdrojov</i>			
Externí doktorandi			
1.	Ing. Richard Jacko	Fakulta materiálov, metalurgie a recyklácie TUKE	5.2.26 materiály

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.) Atmosferická elektrina a sekundárne kozmické žiarenie (*Atmospheric electricity and secondary cosmic radiation*)

Zodpovedný riešiteľ: Ronald Langer
Trvanie projektu: 1.1.2018 / 31.12.2020
Evidenčné číslo projektu: SAV-18-04
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských inštitúcií: 1 - Česko: 1
Čerpané financie: -

Dosiahnuté výsledky:

V rámci MAD spolupráce boli uskutočnené 2 cesty slovenských riešiteľov na spolupracujúcu inštitúciu v ČR a naopak. Cesty boli za účelom doplnenia infraštruktúry (zariadenia UFA) na pracoviskách SAV v Tatrách (Lomnický štít, Skalnaté Pleso, Stará Lesná) a zároveň na vylepšenie zberu a kvality dát z týchto zariadení.

Získané výsledky budú prezentované na sympóziu EGU 2019 vo Viedni (7.-12.4.2019) vo forme príspevku: "Electric field at mounting peak during thunderstorms and gamma ray glows" so spoluautorstvom pracovníkov ÚEF (K.Kudela, M.Kollárik, R.Langer, I.Strhársky).

Spoločné výsledky sú zhrnuté aj do pripravovanej publikácie so zameraním:

"Thunderstorm enhancements of secondary cosmic ray flux (gamma ray glow) recorded at the top of a sharp rocky mountain of Lomnický štít in High Tatras, (2634 m, Slovak Republic) are compared with simultaneous measurements of potential gradient (PG) at the same mountain top and on its slope at the observatory of Skalnaté Pleso (1780 m)"

2.) Kozmické žiarenie pozorované na dvoch vysokohorských observatóriách: Moussala a Lomnický štít (*Cosmic rays as observed at two high mountain observatories: BEO Moussala and Lomnický Stít*)

Zodpovedný riešiteľ: Ronald Langer
Trvanie projektu: 1.1.2018 / 31.12.2020
Evidenčné číslo projektu: SAV-18-02
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských inštitúcií: 1 - Bulharsko: 1
Čerpané financie: -

Dosiahnuté výsledky:

Nikolova, N., K. Kudela, R. Langer, I. Strharsky, T. Arsov, I. Angelov, Ch. Angelov, A. Chilingarian and T. Karapetyan: SEVAN Detector Measurements At BEO Moussala And Lomnicky Stit: First Experience From 2014-2017, <https://bpu10.balkanphysicalunion.com/>, submitted to AIP Proc.

3.) Príprava a magnetické vlastnosti Co/CoO core-shell nanočastíc (*Research on preparation and magnetic properties of Co/CoO core-shell nanoparticles*)

Zodpovedný riešiteľ: Ivan Škorvánek
Trvanie projektu: 1.1.2018 / 31.12.2019
Evidenčné číslo projektu:
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

Na partnerskom pracovisku IMS VAST Hanoi, Vietnam boli pripravené vzorky nanočastíc na báze Co/CoO. Ich morfológia a štruktúra boli študované pomocou FE-SEM a XRD techník. Magnetické vlastnosti vybraných vzoriek boli testované pomocou experimentálnych zariadení MPMS a VSM, ktoré sú k dispozícii na LNAM ÚEF SAV. Vzorky po vhodnom tepelnom spracovaní vykazovali pri nízkych teplotách „exchange bias efekt“, ktorý sa prejavil výrazným posunom ich hysterézných slučiek.

Nguyen Trung Hieu, Le Thi Hong Phong, Vu Hong Ky, Do Khanh Tung, Do Hung Manh, Branislav Kunca, Ivan Skorvanek, Structure and Magnetic Properties of Co Nanoparticles Synthesized by Solvothermal Process, The 9th International Workshop on Advanced Materials Science and Nanotechnology, IWAMSN 2018“ Ninh Binh, Vietnam, 7. -11. 11. 2018, Programme and Abstracts, page 68

4.) Teoretické a experimentálne štúdium orientačných, magneto-optických a dielektrických vlastností kompozitov kvapalných kryštálov dopovaných magneticckými časticami. (*Theoretical and experimental studies of orientational, magneto-optical and dielectric properties of composite liquid crystals filled with magnetic particles.*)

Zodpovedný riešiteľ: Natália Tomašovičová
Trvanie projektu: 1.1.2017 / 31.12.2019
Evidenčné číslo projektu:
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských inštitúcií: 2 - Ukrajina: 2
Čerpané financie: -

Dosiahnuté výsledky:

Experimentálne a teoretický boli študované a popísané nové typy feronematík - kvapalný kryštál dopovaný vretenovitými a doštičkovitými nanočasticami. Bola vyvinutá modifikovaná teória Burylova-Raikhera, ktorá vysvetľuje bistabilné správanie sa týchto feronematík. Tento nový model popisuje magnetický indukované fázové prechody, ktoré môžu byť prvého alebo druhého druhu a tiež

popisuje elastické interakcie anizotropných nanočastíc s defektami v nematickej matrici pod vplyvom magneticky indukovaného fázového prechodu.

1. Tomašovičová, N; Burylov, S; Gdovinová, V; Tarasov, A; Kováč, J; Burylova, N; Voroshilov, A; Kopčanský, P; Jadzyn, J; Magnetic Freedericksz transition in a ferronematic liquid crystal doped with spindle magnetic particles. In: *Journal of Molecular Liquids* 267 (2018) 390-397
2. Kopčanský, P; Gdovinová, V; Burylov, S; Burylova, N; Voroshilov, A; Majorošová, J; Agresti, F; Zin, V; Barison, S; Jadzyn; Tomašovičová, N; The influence of goethite nanorods on structural transitions in liquid crystal 6CHBT. In: *Journal of Magnetism and Magnetic Materials* 459 (2018) 26-32

Programy: Medziústavná dohoda

5.) Štúdium amyloidnej agregácie proteínov in vitro a v mozgomiešnom moku (*Study of the protein amyloid aggregation in vitro and in cerebrospinal fluid*)

Zodpovedný riešiteľ: Zuzana Gažová
Trvanie projektu: 13.7.2015 / 31.12.2020
Evidenčné číslo projektu: -
Organizácia je áno
koordinátorom projektu:
Koordinátor: Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských inštitúcií: 1 - Česko: 1
Čerpané financie: -

Dosiahnuté výsledky:

Hodnoty povrchového napätia biologických tekutín môžu byť ovplyvnené tvorbou oligomérov alebo agregátov povrchovo aktívnych proteínov, ku ktorým patrí aj Abeta peptid alebo iné amyloidogénne poly/peptidy. Vznik agregátov je spojený so zvýšením fluorescenčnej intenzity v porovnaní s intenzitou natívnych foriem proteínov. Sledovali sme povrchové napätie a fluorescenčnú intenzitu ThT v ľudskom sére a likvore s cieľom zistiť, či sú tieto vzorky vhodné na včasnú diagnostiku Alzheimerovej choroby.

Programy: COST

6.) Multifunkcionalizované nanočastice pre magnetickú hypertermiu a nepriamu radiačnú (*Multifunctional Nanoparticles for Magnetic Hyperthermia and Indirect Radiation Therapy*)

Zodpovedný riešiteľ: Peter Kopčanský
Trvanie projektu: 13.11.2014 / 12.11.2018
Evidenčné číslo projektu: COST 054/14 akcia TD1402
Organizácia je nie
koordinátorom projektu:
Koordinátor: Royal Meteorological Institute Centre de Physique du Globe, Dourbes (Viroinval)
Počet spoluriešiteľských inštitúcií: 35 - Rakúsko: 3, Belgicko: 3, Cyprus: 1, Česko: 1, Nemecko: 5, Dánsko: 1, Španielsko: 1, Francúzsko: 3, Veľká Británia: 1, Grécko: 2, Maďarsko: 1, Švajčiarsko: 1, Írsko: 1, Taliansko: 1, Nórsko: 1, Poľsko: 1, Portugalsko: 3, Rumunsko: 2, Srbsko: 1, Švédsko: 1,

Čerpané financie: Turecko: 1
COST: 4100 €

Dosiahnuté výsledky:

Tento projekt bol riešený v období 11/2014-11/2018 a bol venovaný štúdiu možnosti zvýšenia účinnosti liečby rakoviny kombináciou viacerých terapeutických metód a to rádioterapie v kombinácii s magnetickou hypertermiou. Pre tieto účely boli na našom pracovisku pripravené magnetické nanočastice stabilizované biokompatibilnými látkami. Povrch nanočastíc sme modifikovali aminokyselinami pre naviazanie protilátky, ktorá sa selektívne viaže na povrch rakovinových buniek, následne do nich tento magnetický komplex prenikne. Aplikácia magnetickej hypertermie na nanočastice spôsobí zvýšenie teploty a keďže rakovinové bunky sú citlivejšie na vyššie teploty, môže dôjsť k ich deštrukcii, prípadne spôsobí vyššiu citlivosť nádorových buniek na iné liečebné metódy/postupy.

V práci [1] bol skúmaný vplyv procesu sonifikácie na zloženie a rôzne fyzikálne vlastnosti magnetických nanočastíc, ktoré boli pripravené chemickou zrážacou reakciou. Nanočastice boli modifikované poly-L-lyzínom a naviazaná špecifická protilátka na detekciu rakovinových buniek.

Amino-modifikované magnetické nanočastice [2] boli pripravené priamou chemisorpciou D, L-lyzínu (DLL) na elektrostaticky stabilizované magnetické nanočastice s cieľom naviazať špecifické protilátky (Ab), schopné detekovať rakovinové bunky. Pomocou UV/Vis spektroskopie a meraním dynamického rozptylu svetla (DLS) bol zistený optimálny hmotnostný pomer DLL/Fe₃O₄. Pomocou FTIR, UV/Vis a XPS spektroskopie bola potvrdená úspešná amínová modifikácia Fe₃O₄ nanočastíc. Vo vzorkách bolo potvrdené superparamagnetické správanie pomocou vibračného magnetometra (VSM).

Kapitola s názvom „Magnetické kvapaliny a ich komplexné systémy“ [3] poskytuje prehľad vybraných magnetických systémov obsahujúcich nanočastice (magnetické kvapaliny, magnetozómy, magnetoferitín a kvapalné kryštály dopované magnetickými časticami) ako jedinečné materiály s potenciálnym využitím v oblasti biológie a medicíny, ale aj v oblasti techniky. Hlavná myšlienka zabudovania magnetických nanočastíc do rôznych materiálov je predpoklad zlepšenia vlastností materiálov a dosiahnutie lepšieho využitia v širokom rozsahu vedeckých disciplín, ako je magnetická hypertermia, cieleň transport liekov, magnetooptika, energetika a iné. V kapitole sú okrem iného zhrnuté výsledky syntézy, funkcionalizácie magnetických nanočastíc, enkapsulácia liekov, výsledky časovo závislej distribúcie v orgánoch a vplyvu komplexu polyméru na krvný tlak spontánne hypertenzných potkanov.

Cieľom ďalšej práce [4] bolo pripraviť magnetické nanočastice, ktorých magnetické jadro bolo obalené rôznymi hydrofilnými látkami ako napr. vrstvou surfaktantu, proteínmi a/alebo polymérmi, ktoré sa bežne používajú v biomedicíne. Tieto nanočastice boli podrobne charakterizované rôznymi fyzikálno-chemickými metódami. Magnetickou hypertermiou bol skúmaný vplyv obalu na tepelné charakteristiky vzoriek, avšak nebola dokázaná žiadna korelácia medzi hrúbkou vrstvy a ohrevom vzorky resp. SAR koeficientom. Na hodnotenie vplyvu povrchovej chémie na proliferáciu a internalizáciu nanočastíc do buniek sa použili epiteliálne bunky (A549) ľudského pľúcneho adenokarcinómu. Bol zistený vplyv obalu na množstvo internalizovaných nanočastíc a viabilitu buniek. Naše výsledky ukazujú, že povrchová chémia nielen chráni častice pred aglomeráciou, ale tiež ovplyvňuje interakciu medzi bunkami a nanočasticami.

Cieľom práce [5] bolo overiť vhodnosť magnetických nanočastíc obalených poly-L-lyzínom pre magnetickú hypertermiu a zobrazovanie magnetickou rezonanciou (MRI) terapiu a diagnostiku.

V ďalšej práci [6] sme sa venovali adsorpcii glycínu na povrch magnetických nanočastíc, hľadaniu optimálnych podmienok pre prípravu a charakterizáciu fyzikálno-chemických vlastností kompozitu. Ďalej bola skúmaná schopnosť tohto kompozitu deštruovať amyloidné fibrily.

Publikácie:

[1] Preparation and characterization of magnetic nanoparticles - I. Khmara, M. Kubovcikova, M.

Koneracka, B. Kalska-Szostko, V. Zavisova, I. Antal, M. Rajnak, Z. Dankova, V. Kavecansky, M. Omastova, P. Kopcansky; *Acta Phys. Pol. A.* 133 (2018) 704–706.

[2] D,L-lysine functionalized Fe₃O₄nanoparticles for detection of cancer cells - I. Antal, M. Koneracka, M. Kubovcikova, V. Zavisova, I. Khmara, D. Lucanska, L. Jelenska, I. Vidlickova, M. Zatovicova, S. Pastorekova, N. Bugarova, M. Micusik, M. Omastova, P. Kopcansky; *Colloids Surfaces B Biointerfaces.* 163 (2018) 236–245.

[3] Magnetic fluids and their complex systems. (Kapitola v knihe). Kopcansky, P; Timko, M; Koneracka, M; Zavisova, V; Kubovcikova, M; Molcan, M; Balejcikova, L; Tomasovicova, N; Rajnak, M; Gdovinova, V; *Springer Proceedings in Physics* 197 (2018) 151-18.

[4] Effect of magnetic nanoparticles coating on cell proliferation and uptake - V. Zavisova, M.Koneracka, A.Gabelova, B. Svitkova, M. Ursinyova, M. Kubovcikova, I. Antal, I. Khmara, A. Jurikova, M. Molcan, M. Ognjanović, B. Antić, P. Kopcansky. *Journal of Magnetism and Magnetic Materials.* Volume 472, 15 February 2019, Pages 66-73.

[5] Poly-L-lysine designed magnetic nanoparticles for combined hyperthermia, magnetic resonance imaging and cancer cell detection - M. Kubovcikova, M. Koneracká, O. Strbak, M. Molcan, V. Zavisova, I. Antal, I. Khmara, D. Lucanska, L. Tomco, M. Barathova, M. Zatovicova, D. Dobrota, S. Pastorekova, P. Kopcansky. *Journal of Magnetism and Magnetic Materials* 475 (2019) 316–326.

[6] Destroying activity of glycine coated magnetic nanoparticles on lysozyme, α -lactalbumin, insulin and α -crystallin amyloid fibrils - Antosova, A., Bednarikova, Z., Koneracka, M., Antal, I., Zavisova, V., Kubovcikova, Wu, J.W., S.-S. Wang, S., Gazova, Z. *Journal of Magnetism and Magnetic Materials.* Volume 471, 1 February 2019, Pages 169-176.

7.) NANOSCALE COHERENT HYBRID DEVICES FOR SUPERCONDUCTING QUANTUM TECHNOLOGIES (*NANOSCALE COHERENT HYBRID DEVICES FOR SUPERCONDUCTING QUANTUM TECHNOLOGIES*)

Zodpovedný riešiteľ:	Peter Samuely
Trvanie projektu:	18.10.2017 / 17.10.2021
Evidenčné číslo projektu:	COST Action CA16218
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Universidad Autonoma de Madrid
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	-

Dosiahnuté výsledky:

V roku 2018 sa slovenskí účastníci zapojení do projektu Nanoscale Coherent Hybrid Devices for Superconducting Quantum Technologies (NanocoHybri) COST CA16218, ktorí pochádzajú z ÚEF SAV, EIÚ SAV, FMFI UK a PF UPJŠ, zúčastnili oboch vedeckých podujatí organizovaných projektom. Prvým bol International Workshop “Coherent superconducting hybrids and related materials” , Les Arcs 1800 (France) on March 26-29th, 2018, Hotel Mercure Arc 1800. P. Samuely na konferencii viedol jednu sekciu a prezentoval poster Black superconducting diamond. P. Szabó predniesol pozvanú prednášku On the origin of the quasiparticle states in the superconducting gap of homogeneously disordered ultrathin films. MoC case. Druhým podujatím r. 2018 bola škola a workshop School on quantum materials and workshop on vortex behavior in unconventional superconductors, 7-12 October, 2018, Braga Portugalsko. P. Samuely predniesol prednášku Ising superconductivity in bulk (LaSe)_{1.14}(NbSe₂)_{m=1,2} misfit layer compound a doktorand Ondrej Šofranko prezentoval poster Indications of Ising spin-orbit coupling in (LaSe)_{1.14}(NbSe₂).

Doktorand Miroslav Marcin z ÚEF SAV získal štipendium projektu na pobyt v LNCMI – French National High Magnetic Field Laboratory, Grenoble (Francúzsko). Tam realizoval experimenty vo vysokých magnetických poliach. Správa o meraniach: CeCoIn5 is a heavy fermion d-wave superconductor featuring various interesting properties. It is Pauli limited and its vortex lattice undergoes several phase transitions changing their arrangement from hexagonal to rhombic and square when varying temperature or applied magnetic field. Up to now our study was mainly focused on the superconducting state of this material. During my Short Term Scientific Mission I have complemented our research by a study of field-induced development of Fermi liquid regime in the normal state of this superconductor. The planned experiments were based on previously observed anomalous low temperature evolution of magnetoresistance. Using resistive ac-calorimetry method we have clearly observed changes in curvature of the temperature and magnetic field dependencies of the heat capacity, which are related to field-induced recovery of the Fermi liquid regime. Since calorimetry is a bulk method, our measurements confirmed that magnetic field evolution of the Fermi liquid behavior of this material has bulk origin.

V r. 2018 boli slovenskými autormi publikované nasledujúce vedecké články, ktoré vznikli s podporou projektu:

On the origin of in-gap states in homogeneously disordered ultrathin films. MoC case - Haskova, V.; Kopicik, M.; Szabo, P.; et al. APPLIED SURFACE SCIENCE, Vol. 461, Special Issue, 143-148

Pressure effect on the superconducting and the normal state of ss-Bi2Pd - Pristas, G.; Orendac, Mat.; Gabani, S.; et al. PHYSICAL REVIEW B, 2018, Vol. 97, Issue: 13, 134505

8.) Neglobulárne proteíny - od sekvencie ku štruktúre, funkcii a aplikácii v molekulárnej fyziopatológii (*Non-globular proteins - from sequence to structure, function and application in molecular physiopathology*)

Zodpovedný riešiteľ:	Rostislav Škrabana
Zodpovedný riešiteľ v organizácii SAV:	Zuzana Gažová
Trvanie projektu:	27.7.2015 / 25.3.2019
Evidenčné číslo projektu:	COST Action BM1405
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských inštitúcií:	28 - Rakúsko: 2, Belgicko: 2, Cyprus: 1, Česko: 1, Nemecko: 2, Francúzsko: 2, Grécko: 1, Maďarsko: 2, Írsko: 1, Izrael: 1, Taliansko: 2, Litva: 1, Lotyšsko: 1, Nórsko: 2, Poľsko: 2, Portugalsko: 2, Srbsko: 2, Slovensko: 0, Slovinsko: 1
Čerpané financie:	MVTS COST: 4480 €

Dosiahnuté výsledky:

Zamerali sme sa na identifikáciu látok s potenciálom ovplyvniť procesy spojené s Alzheimerovou chorobou (ACH). Pomocou in vitro a in silico metód sme študovali molekulárny mechanizmus bexaroténom indukovaného odbúravania amyloidných plakov, ktoré sú charakteristickým znakom ACH. Zistili sme, že jeho účinok nie je sprostredkovaný priamou interakciou s A β peptidom, resp. inhibíciou jeho produkcie, keďže sa slabo viaže do natívnej a fibrilárnej štruktúry A β peptidu a β -sekretázy. Pozorovali sme, že bexarotén sa silno viaže s receptormi, ktoré následne zvyšujú expresiu APOE4. Zvýšená produkcia APOE4 vedie k vychytávaniu natívneho A β peptidu z mozgu a redukcii tvorby amyloidných plakov. Skúmali rôzne štruktúrne modifikácie kurkumínu s cieľom zlepšiť ich biologickú dostupnosť, stabilitu a schopnosť interagovať s amyloidnými fibrilami a agregátmi A β 40 peptidu. Zistili sme, že deriváty modifikované MeOH- alebo CH₃COO- substituentami mali výrazne

vyššiu schopnosť viazať a deštruovať amyloidné fibrily ako tie bez naviazaných substituentov. S využitím in silico skríningu databázy malých molekúl sme identifikovali látku CID 9998128, ktorá sa viazala s viacerými proteínmi, ktorých aktivita je ovplyvnená ACH. Zistili sme, že má nielen anti-amyloidné vlastnosti voči A β 42 peptidu, ale je schopná inhibovať aj enzýmovú aktivitu β -sekretázy.

[1] PHAM, H. D. Q.- THAI, N. Q.- BEDNARIKOVA, Z.- LINH, H. Q.- GAZOVA, Z. - LI, M. S. Bexarotene cannot reduce amyloid beta plaques through inhibition of production of amyloid beta peptides: in silico and in vitro study. In: Phys.Chem.Chem.Phys., 2018, vol. 20, pp. 24329-24338. (IF 3.906, Q1)

[2] ORTECA, G. - TAVANTI, F. - BEDNARIKOVA, Z. - GAZOVA, Z. - RIGILLO, G. - IMBRIANO, C. - BASILE, V. - ASTI, M.-RIGAMONTI, L. - SALADINI, M. -FERRARI, E. - MENZIANI, C. Curcumin derivatives and A β -fibrillar aggregates: An interactions' study for diagnostic/therapeutic purposes in neurodegenerative diseases. In: Bioorganic & Medicinal Chemistry, 2018, vol. 26, pp. 4288-4300. (IF 2.881, Q1)

[3] THAI, N. Q.- BEDNARIKOVA, Z.- GANCAR, M.- LINH, H. Q.- HU, CH.-K. - LI, M. S. - GAZOVA, Z. Compound CID 9998128 Is a Potential Multitarget Drug for Alzheimer's Disease. In: ACS Chem. Neurosci., 2018, vol. 9, pp. 2588-2598. (IF 4.211, Q1)

9.) Prekonanie bariér pre komerčné využitie nanokvapalín (NANOUP TAKE) (*Overcoming Barriers to Nanofluids Market Uptake (NANOUP TAKE)*)

Zodpovedný riešiteľ:	Milan Timko
Trvanie projektu:	19.4.2016 / 18.4.2020
Evidenčné číslo projektu:	COST 051/15, COST Action CA15119
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských inštitúcií:	48 - Česko: 1, Nemecko: 1, Dánsko: 3, Fínsko: 2, Francúzsko: 1, Veľká Británia: 2, Grécko: 3, Izrael: 1, Taliansko: 7, Nórsko: 1, Poľsko: 2, Portugalsko: 6, Rumunsko: 4, Srbsko: 6, Slovinsko: 1, Švédsko: 4, Turecko: 3
Čerpané financie:	-

Dosiahnuté výsledky:

Boli študované štruktúrne prechody v kompozitnom systéme pozostávajúceho z kvapalného kryštálu 6CHBT a goetitových magnetických nanočastíc s koncentráciou 0,1% prostredníctvom dielektrických meraní ako aj prostredníctvom využitia polarizačného optického mikroskopu. Magnetické nanočastice spôsobili pokles magnetického Fredericksovho prechodu. Na druhej strane odozva feronematika na nízke magnetické polia otvára dvere k možným aplikáciám v oblasti senzorov nízkeho magnetického poľa [1]. Na druhej strane dielektrický prieraz v magnetických kvapalinách je jednou zo základných charakterizácií z dielektrického hľadiska a tiež z hľadiska ich aplikácie. V našom experimente sme použili goetitové magnetické nanočastice vo forme nanorodov. Bolo zistené, že takéto nanočastice majú pozitívny vplyv na dielektrickú DC pevnosť, avšak striedavé AC pole nemá v podstate žiadny vplyv na dielektrický prieraz [2]. V prípade magnetickej kvapaliny je magnetická susceptibilita v nízkom magnetickom poli citlivá na rozmer a tvar nanočastíc, ich koncentráciu a tiež nosnú kvapalinu. V magnetickej kvapaline na báze transformátorového oleja bol študovaný vplyv vonkajšieho elektrického poľa a elektrického prúdu pretekajúceho kvapalinou na AC magnetickú susceptibilitu. Indukované štruktúrne zmeny môžu ovplyvniť magnetickú susceptibilitu. Bolo zistené, že magnetická susceptibilita klesá s rastúcim elektrickým poľom, pričom ale zároveň dochádza k nárastu teploty média. Ohrev v dôsledku Jouleho efektu má zrejmy dopad na magnetickú susceptibilitu vo vonkajšom elektrickom poli [3]. V ďalšom príspevku [4] sú zhrnuté

dosiahnuté výsledky v oblasti štúdia magnetických kvapalín a kompozitných systémov obsahujúcich magnetické nanočastice z hľadiska dielektrických, hypertermických a biomedicínskych vlastností.

[1] The influence of goethite nanorods on structural transitions in liquid crystal 6CHBT - Kopcansky, P; Gdovinová, V; Burylov, S; Burylova, N; Voroshilov A; Majorošová, J; Agresti, F; Zin, V, Barison, S; Jadzyn ; Tomašovicová, N; Journal of Magnetism and Magnetic Materials, 2018, Vol. 459, 26-32

[2] Dielectric Breakdown Study of a Nanofluid Based On Goethite Nanoparticles - T. Tobias, M. Rajnak, P. Kopcansky, M. Timko, F. Agresti, S. Barison, B. Dolnik, IEEE Transactions on Dielectrics and Electrical Insulation, 2018, Vol. 25, No. 6

[3] Influence of Electric Field on AC Magnetic Susceptibility of a Mineral Oil Based Ferrofluid Rajnak, M Dolnik, B ; Tobias, T ; Paulovicova, K; Kurimsky, J; Cimbala, R; Kopcansky, P; Timko, M. In: ACTA PHYSICA POLONICA A, 2018, Vol. 133, Issue: 3, 567-569

[4] Magnetic fluids and their complex systems (Conference Paper) - Kopcansky, P; Timko, M; Koneracka, M; Závisova, V; Kubovcikova, M; Molcan, M; Balejcikova, L; Tomasovicova, N; Rajnak, M; Gdovinova, V. In: MODERN PROBLEMS OF MOLECULAR PHYSICS, Book Series: Springer Proceedings in Physics, 2018, Volume: 197, 151-184

Programy: CERN/MŠ

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

Zodpovedný riešiteľ:	Dušan Bruncko
Trvanie projektu:	1.1.2016 / 31.12.2020
Evidenčné číslo projektu:	0207/2016
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	-

Dosiahnuté výsledky:

Measurement of the cross section for isolated-photon plus jet production in pp collisions at $\sqrt{s}=13$ TeV using the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.)
arXiv:1801.00112; Physics Letters B 780 (2018), 578

Measurement of the exclusive $\gamma \gamma \rightarrow \mu^+ \mu^-$ process in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1708.04053; Physics Letters B 777 (2018), 303

Search for diboson resonances with boson-tagged jets in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1708.04445
Physics Letters B 777 (2018), 91–113

Measurements of t differential cross-sections of highly boosted top quarks decaying to all-hadronic final states in pp collisions at $\sqrt{s}=13$ TeV using the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1801.02052; Physical Review D 98 (2018), 012003

Search for dark matter produced in association with bottom or top quarks in $\sqrt{s} = 13$ TeV pp

collisions with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1710.11412; European Physical Journal C 78 (2018), 18

Search for heavy resonances decaying into WW in the $n\nu$ final state in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1710.01123; European Physical Journal C 78 (2018), 24

Search for additional heavy neutral Higgs and gauge bosons in the ditau final state produced in 36 fb^{-1} of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1709.07242; Journal of High Energy Physics 01 (2018), 055

Measurement of the cross-section for producing a W -boson in association with a single top quark in pp collisions at $\sqrt{s} = 13$ TeV with ATLAS. The ATLAS collaboration (G. Aad et al.); arXiv:1612.07231; Journal of High Energy Physics 01 (2018), 078

A search for high-mass resonances decaying to $\tau\nu$ in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1801.06992; Physical Review Letters 120 (2018), 161802

Measurement of differential cross sections of isolated-photon plus heavy-flavour jet production in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1710.09560; Physics Letters B 776 (2018), 295

Search for $W' \rightarrow tb$ decays in the hadronic final state using pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1801.07893; Physics Letters B 781 (2018), 327

Search for dark matter and other new phenomena in events with an energetic jet and large missing transverse momentum using the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1711.03301; Journal of High Energy Physics 01 (2018), 063

Search for an invisibly decaying Higgs boson or dark matter candidates produced in association with a Z boson in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1708.09624; Physics Letters B 776 (2018), 318-337

Search for light resonances decaying to boosted quark pairs and produced in association with a photon or a jet in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1801.08769; Physics Letters B 788 (2018), 316

Search for new phenomena in high-mass final states with a photon and a jet from pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1709.10440; European Physical Journal C 78 (2018), 102

Search for a Structure in the $B^0_s \rightarrow \pi^+ \pi^-$ Invariant Mass Spectrum with the ATLAS Experiment. The ATLAS collaboration (M. Aaboud et al.); arXiv:1802.01840; Physical Review Letters 120 (2018), 202007

A search for B - L parity-violating top squarks in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS experiment. The ATLAS collaboration (M. Aaboud et al.); arXiv:1710.05544; Physical Review D 97 (2018), 032003

Measurement of the W -boson mass in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1701.07240; European Physical Journal C 78 (2018), 110

$ZZ \rightarrow \ell\ell^+ \ell\ell^- \ell\ell'^+ \ell\ell'^-$ cross-section measurements and search for anomalous triple gauge couplings in 13 TeV pp collisions with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1709.07703; Physical Review D 97 (2018), 032005

Search for photonic signatures of gauge-mediated supersymmetry in 13 TeV pp collisions with the

- ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1802.03158; Physical Review D 97 (2018), 092006
- Search for Higgs boson decays to beyond-the-Standard-Model light bosons in four-lepton events with the ATLAS detector at $\sqrt{s} = 13$ TeV. The ATLAS collaboration (M. Aaboud et al.); arXiv:1802.03388; Journal of High Energy Physics 06 (2018), 166
- Measurements of Higgs boson properties in the diphoton decay channel with 36 fb^{-1} of pp collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1802.04146; Physical Review D 98 (2018), 052005
- Search for the Decay of the Higgs Boson to Charm Quarks with the ATLAS Experiment. The ATLAS collaboration (M. Aaboud et al.); arXiv:1802.04329; Physical Review Letters 120 (2018), 211802
- A search for resonances decaying into a Higgs boson and a new particle X in the $XH \rightarrow q\bar{q}b\bar{b}$ final state with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1709.06783; Physics Letters B 779 (2018), 24
- Measurement of multi-particle azimuthal correlations with the subevent cumulant method in pp and $p\text{-}Pb$ collisions with the ATLAS detector at the LHC. The ATLAS collaboration (M. Aaboud et al.); arXiv:1708.03559; Physical Review C 97 (2018), 024904
- Direct top-quark decay width measurement in the $t\bar{t}$ lepton+jets channel at $\sqrt{s} = 8 \text{ TeV}$ with the ATLAS experiment. The ATLAS collaboration (M. Aaboud et al.); arXiv:1709.04207; European Physical Journal C 78 (2018), 129
- Measurements of differential cross sections of top quark pair production in association with jets in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1802.06572; Journal of High Energy Physics 10 (2018), 159
- Measurement of longitudinal flow de-correlations in $Pb+Pb$ collisions at $\sqrt{s_{NN}} = 2.76$ and 5.02 TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1709.02301; European Physical Journal C 78 (2018), 142
- Performance of missing transverse momentum reconstruction with the ATLAS detector using proton-proton collisions at $\sqrt{s} = 13$ TeV. The ATLAS collaboration (M. Aaboud et al.); arXiv:1802.08168; European Physical Journal C 78 (2018), 903
- Search for the direct production of charginos and neutralinos in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1708.07875; European Physical Journal C 78 (2018), 154
- Measurement of τ polarisation in $Z/\gamma^* \rightarrow \tau\tau$ decays in proton-proton collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1709.03490; European Physical Journal C 78 (2018), 163
- Measurement of quarkonium production in proton-lead and proton-proton collisions at 5.02 TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1709.03089; European Physical Journal C 78 (2018), 171
- Search for electroweak production of supersymmetric particles in final states with two or three leptons at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1803.02762; European Physical Journal C 78 (2018), 995
- Searches for heavy ZZ and ZW resonances in the $\ell\ell q\bar{q}$ and $\nu\bar{\nu} q\bar{q}$ final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1708.09638; Journal of High Energy Physics 03 (2018), 009
- Measurement of differential cross-sections of a single top quark produced in association with a W boson at $\sqrt{s} = 13$ TeV with ATLAS. The ATLAS collaboration (M. Aaboud et al.); arXiv:1712.01602; European Physical Journal C 78 (2018), 186

Search for doubly charged Higgs boson production in multi-lepton final states with the ATLAS detector using proton-proton collisions at $\sqrt{s} = 13$ TeV. The ATLAS collaboration (M. Aaboud et al.); arXiv:1710.09748; European Physical Journal C 78 (2018), 199

Search for WW/WZ resonance production in $\ell\ell\nu\bar{\nu}qq$ final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1710.07235; Journal of High Energy Physics 03 (2018), 042

Measurement of the Higgs boson coupling properties in the $H \rightarrow ZZ^{*} \rightarrow 4\ell$ decay channel at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1712.02304; Journal of High Energy Physics 03 (2018), 95

A search for pair-produced resonances in four-jet final states at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1710.07171; European Physical Journal C 78 (2018), 250

Search for flavour-changing neutral current top-quark decays $t \rightarrow qZ$ in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1803.09923; Journal of High Energy Physics 07 (2018), 176

Search for pair production of up-type vector-like quarks and for four-top-quark events in final states with multiple b -jets with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1803.09678; Journal of High Energy Physics 07 (2018), 089

Search for top squarks decaying to tau sleptons in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1803.10178; Physical Review D 98 (2018), 032008

Search for electroweak production of supersymmetric states in scenarios with compressed mass spectra at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1712.08119; Physical Review D 97 (2018), 052010

Search for Higgs boson decays into pairs of light (pseudo)scalar particles in the $\gamma\gamma jj$ final state in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1803.11145; Physics Letters B 782 (2018), 750

Search for a heavy Higgs boson decaying into a Z boson and another heavy Higgs boson in the $\ell\ell b\bar{b}$ final state in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1804.01126; Physics Letters B 783 (2018), 392

Measurement of the production cross section of three isolated photons in pp collisions at $\sqrt{s} = 8$ TeV using the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1712.07291; Physics Letters B 781 (2018), 55

Measurement of the production cross-section of a single top quark in association with a Z boson in proton-proton collisions at 13 TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1710.03659; Physics Letters B 780 (2018), 578

Search for low-mass dijet resonances using trigger-level jets with the ATLAS detector in pp collisions at $\sqrt{s} = 13$ TeV. The ATLAS collaboration (M. Aaboud et al.); arXiv:1804.03496; Physical Review Letters 121 (2018), 081801

Search for R -parity-violating supersymmetric particles in multi-jet final states produced in pp collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector at the LHC. The ATLAS collaboration. (M. Aaboud et al.); arXiv:1804.03568; Physics Letters B 785 (2018), 136

Search for supersymmetry in events with four or more leptons in $\sqrt{s} = 13$ TeV pp collisions with ATLAS. The ATLAS collaboration (M. Aaboud et al.); arXiv:1804.03602; Physical Review D 98 (2018), 032009

Search for the Standard Model Higgs boson produced in association with top quarks and decaying

into a $b\bar{b}$ pair in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1712.08895; Physical Review D 97 (2018), 072016

Search for heavy ZZ resonances in the $\ell^+\ell^-\ell^+\ell^-$ and $\ell^+\ell^-\nu\bar{\nu}$ final states using proton proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1712.06386; European Physical Journal C 78 (2018), 293

Search for pair production of Higgs bosons in the $b\bar{b}b\bar{b}$ final state using proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1804.06174; Submitted to Journal of High Energy Physics

A search for lepton-flavor-violating decays of the Z boson into a τ -lepton and a light lepton with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1804.09568; Physical Review D 98 (2018), 092010

Search for heavy particles decaying into top-quark pairs using lepton-plus-jets events in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1804.10823; European Physical Journal C 78 (2018), 565

Search for supersymmetry in final states with charm jets and missing transverse momentum in 13 TeV pp collisions with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1805.01649; Journal of High Energy Physics 09 (2018), 50

Measurements of b -jet tagging efficiency with the ATLAS detector using $t\bar{t}$ events at $\sqrt{s} = 13$ TeV. The ATLAS collaboration (M. Aaboud et al.); arXiv:1805.01845; Journal of High Energy Physics 08 (2018), 089

Search for heavy resonances decaying to a photon and a hadronically decaying $Z/W/H$ boson in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1805.01908; Physical Review D 98 (2018), 032015

Measurement of colour flow using jet-pull observables in $t\bar{t}$ events with the ATLAS experiment at $\sqrt{s} = 13$ TeV. The ATLAS collaboration (M. Aaboud et al.); arXiv:1805.02935; European Physical Journal C 78 (2018), 847

Search for heavy resonances decaying into a W or Z boson and a Higgs boson in final states with leptons and b -jets in 36 fb^{-1} of $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1712.06518; Journal of High Energy Physics 03 (2018), 174; Erratum: Journal of High Energy Physics 11 (2018), 051

Search for flavor-changing neutral currents in top quark decays $t \rightarrow Hc$ and $t \rightarrow H\mu$ in multilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1805.03483; Physical Review D 98 (2018), 032002

Combination of inclusive and differential $t\bar{t}$ charge asymmetry measurements using ATLAS and CMS data at $\sqrt{s} = 7$ and 8 TeV. The ATLAS and CMS collaboration (M. Aaboud et al., A.M. Sirunyan et al.); arXiv:1709.05327; Journal of High Energy Physics 04 (2018), 033

Prompt and non-prompt J/ψ and $\psi(2S)$ suppression at high transverse momentum in 5.02 TeV $Pb+Pb$ collisions with the ATLAS experiment. The ATLAS collaboration (M. Aaboud et al.); arXiv:1805.04077; Submitted to European Physical Journal C

Angular analysis of $B^0_d \rightarrow K^*\mu^+\mu^-$ decays in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1805.04000; Journal of High Energy Physics 10 (2018), 047

Measurement of dijet azimuthal decorrelations in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector and determination of the strong coupling. The ATLAS collaboration (M. Aaboud et al.); arXiv:1805.04691; Physical Review D 98 (2018), 092004

Measurement of the suppression and azimuthal anisotropy of muons from heavy-flavor decays in Pb+Pb collisions at $\sqrt{s_{\text{NN}}} = 2.76$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1805.05220; Physical Review C 98 (2018), 044905

Measurement of jet fragmentation in Pb+Pb and pp collisions at $\sqrt{s_{\text{NN}}} = 5.02$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1805.05424; Physical Review C 98 (2018), 024908

Measurement of the nuclear modification factor for inclusive jets in Pb+Pb collisions at $\sqrt{s_{\text{NN}}} = 5.02$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1805.05635; Submitted to Physics Letters B

Evidence for the associated production of the Higgs boson and a top quark pair with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1712.08891; Physical Review D 97 (2018), 072003

Search for long-lived, massive particles in events with displaced vertices and missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1710.04901; Physical Review D 97 (2018), 052012

Measurement of differential cross sections and W^+/W^- cross-section ratios for W boson production in association with jets at $\sqrt{s} = 8$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1711.03296; Journal of High Energy Physics 05 (2018), 077

Search for resonances in the mass distribution of jet pairs with one or two jets identified as b -jets in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1805.09299; Physical Review D 98 (2018), 032016

Search for a new heavy gauge boson resonance decaying into a lepton and missing transverse momentum in 36 fb^{-1} of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS experiment. The ATLAS collaboration (M. Aaboud et al.); arXiv:1706.04786; European Physical Journal C 78 (2018), 401

Combined measurement of differential and total cross sections in the $H \rightarrow \gamma\gamma$ and the $H \rightarrow ZZ^* \rightarrow 4\ell$ decay channels at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1805.10197; Physics Letters B 786 (2018), 114

Search for new phenomena using the invariant mass distribution of same-flavour opposite-sign dilepton pairs in events with missing transverse momentum in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1805.11381; European Physical Journal C 78 (2018), 625

Measurement of inclusive jet and dijet cross-sections in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1711.02692; Journal of High Energy Physics 05 (2018), 95

Measurement of the Higgs boson mass in the $H \rightarrow ZZ^* \rightarrow 4\ell$ and $H \rightarrow \gamma\gamma$ channels with $\sqrt{s} = 13$ TeV pp collisions using the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1806.00242; Physics Letters B 784, (2018), 345

Observation of Higgs boson production in association with a top quark pair at the LHC with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1806.00425; Physics Letters B 784 (2018), 173

Search for resonant WZ production in the fully leptonic final state in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1806.01532; Physics Letters B 787 (2018), 68

Search for pair production of heavy vector-like quarks decaying to $\text{high-}p_T$ W bosons and top

quarks in the lepton-plus-jets final state in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1806.01762; Journal of High Energy Physics 08 (2018), 048

Operation and performance of the ATLAS Tile Calorimeter in Run 1. The ATLAS collaboration. (M. Aaboud et al.); arXiv:1806.02129; European Physical Journal C 78 (2018), 987

Search for chargino-neutralino production using recursive jigsaw reconstruction in final states with two or three charged leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1806.02293; Submitted to Physical Review D

Search for squarks and gluinos in final states with jets and missing transverse momentum using 36 fb^{-1} of $\sqrt{s} = 13$ TeV pp collision data with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1712.02332; Physical Review D 97 (2018), 112001

Search for long-lived charginos based on a disappearing-track signature in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1712.02118; Journal of High Energy Physics 06 (2018), 022

Search for pair production of higgsinos in final states with at least three b -tagged jets in $\sqrt{s} = 13$ TeV pp collisions using the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1806.04030; Physical Review D 98 (2018), 092002

Measurement of the inclusive and fiducial $t\bar{t}$ production cross-sections in the lepton+jets channel in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1712.06857; European Physical Journal C 78 (2018), 487

Probing the quantum interference between singly and doubly resonant top-quark production in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1806.04667; Physical Review Letters 121 (2018), 152002

Search for the Higgs boson produced in association with a vector boson and decaying into two spin-zero particles in the $H \rightarrow aa \rightarrow 4b$ channel in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1806.07355; Journal of High Energy Physics 10 (2018), 031

Observation of centrality-dependent acoplanarity for muon pairs produced via two-photon scattering in $Pb+Pb$ collisions at $\sqrt{s_{\text{NN}}} = 5.02$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1806.08708; Submitted to Physical Review Letters

Search for supersymmetry in final states with missing transverse momentum and multiple b -jets in proton-proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1711.01901; Journal of High Energy Physics 06 (2018), 107

Search for pair- and single-production of vector-like quarks in final states with at least one Z boson decaying into a pair of electrons or muons in pp collision data collected with the ATLAS detector at $\sqrt{s} = 13$ TeV. The ATLAS collaboration (M. Aaboud et al.); arXiv:1806.10555; Physical Review D 98 (2018), 112010

Search for top-squark pair production in final states with one lepton, jets, and missing transverse momentum using 36 fb^{-1} of $\sqrt{s} = 13$ TeV pp collision data with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1711.11520; Journal of High Energy Physics 06 (2018), 108

Search for Higgs boson decays into a pair of light bosons in the $b\bar{b}\mu\mu$ final state in pp collision at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1807.00539; Submitted to Physics Letters B

Searches for exclusive Higgs and Z boson decays into $J/\Psi\gamma$, $\Psi(2S)\gamma$, and

$\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1807.00802; Physics Letters B 786 (2018), 134

Correlated long-range mixed-harmonic fluctuations measured in pp, p+Pb and low-multiplicity Pb+Pb collisions with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1807.02012; Submitted to Physics Letters B

Search for Higgs boson pair production in the $\gamma\gamma b\bar{b}$ final state with 13 TeV pp collision data collected by the ATLAS experiment. The ATLAS collaboration (M. Aaboud et al.); arXiv:1807.04873; Journal of High Energy Physics 11 (2018), 040

Prompt and non-prompt J/Ψ elliptic flow in $Pb+Pb$ collisions at $\sqrt{s_{NN}} = 5.02$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1807.05198; European Physical Journal C 78 (2018), 784

Search for lepton-flavor violation in different-flavor, high-mass final states in pp collisions at $\sqrt{s} = 13$ TeV with The ATLAS collaboration (M. Aaboud et al.); arXiv:1807.06573; Physical Review D 98 (2018), 092008

A strategy for a general search for new phenomena using data-derived signal regions and its application within the ATLAS experiment. The ATLAS collaboration (M. Aaboud et al.); arXiv:1807.07447; Submitted to European Physical Journal C

Search for charged Higgs bosons decaying via $H^{\pm} \rightarrow \tau^{\pm} \nu_{\tau}$ in the $\tau + \text{jets}$ and $\tau + \text{lepton}$ final states with 36 fb^{-1} of pp collision data recorded at $\sqrt{s} = 13$ TeV with the ATLAS experiment. The ATLAS collaboration (M. Aaboud et al.); arXiv:1807.07915; Journal of High Energy Physics 09 (2018), 139

Search for exclusive Higgs and Z boson decays to $\phi\gamma$ and $\rho\gamma$ with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1712.02758; Journal of High Energy Physics 7 (2018), 127

In situ calibration of large- R jet energy and mass in 13 TeV proton-proton collisions with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1807.09477; Submitted to European Physical Journal C

Search for vector-boson resonances decaying to a top quark and bottom quark in the lepton plus jets final state in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1807.10473; Physics Letters B 788 (2018), 347

Search for dark matter in events with a hadronically decaying vector boson and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1807.11471; Journal of High Energy Physics 10 (2018), 180

Search for new phenomena in events with same-charge leptons and b -jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1807.11883; Journal of High Energy Physics 12 (2018), 039

A search for resonant and non-resonant Higgs boson pair production in the $b\bar{b} \tau^+ \tau^-$ decay channel in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1808.00336; Physical Review Letters 121 (2018), 191801

Constraints on off-shell Higgs boson production and the Higgs boson total width in $ZZ \rightarrow 4l$ and $ZZ \rightarrow 2l 2\nu$ final states with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1808.01191; Physics Letters B 786 (2018), 223

Search for doubly charged scalar bosons decaying into same-sign W boson pairs with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1808.01899; Submitted to European Physical Journal C

Search for pair production of heavy vector-like quarks decaying into hadronic final states in pp

collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1808.01771; Physical Review D 98 (2018), 092005

Combination of the searches for pair-produced vector-like partners of the third-generation quarks at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1808.02343; Physical Review Letters 121 (2018), 211801

Combination of searches for heavy resonances decaying into bosonic and leptonic final states using 36 fb^{-1} of proton-proton collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1808.02380; Physical Review D 98 (2018), 054030

Search for long-lived particles in final states with displaced dimuon vertices in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1808.03057; Submitted to Physical Review D

Search for charged Higgs bosons decaying into top and bottom quarks at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1808.03599; Journal of High Energy Physics 11 (2018), 085

Measurement of the azimuthal anisotropy of charged particles produced in $\sqrt{s_{\text{NN}}} = 5.02$ TeV $Pb+Pb$ collisions with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1808.03951; European Physical Journal C 78 (2018), 997

Search for heavy charged long-lived particles in proton-proton collisions at $\sqrt{s} = 13$ TeV using an ionisation measurement with the `ATLAS` detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1808.04095; Submitted to Physics Letters B

Search for squarks and gluinos in pp collisions at $\sqrt{s} = 13$ TeV in events with τ -leptons, jets and missing transverse energy. The ATLAS collaboration (M. Aaboud et al.); arXiv:1808.06358; Submitted to Physical Review D

Performance of top-quark and W -boson tagging with ATLAS in Run 2 of the LHC. The ATLAS collaboration (M. Aaboud et al.); arXiv:1808.07858; Submitted to European Physical Journal C

Observation of $H \rightarrow b\bar{b}$ decays and VH production with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1808.08238; Physics Letters B 786 (2018), 59

A measurement of the soft-drop jet mass in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1711.08341; Physical Review Letters 121 (2018), 092001

Measurements of gluon-gluon fusion and vector-boson fusion Higgs boson production cross-sections in the $H \rightarrow WW^* \rightarrow e\nu\mu\nu$ decay channel in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1808.09054; Submitted to Physics Letters B

A search for pairs of highly collimated photon-jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1808.10515; Submitted to Physical Review D

Measurement of jet fragmentation in 5.02 TeV proton-lead and proton-proton collisions with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1706.02859; Nuclear Physics A 978 (2018) 65

Search for Higgs bosons produced via vector-boson fusion and decaying into bottom quark pairs in $\sqrt{s} = 13$ TeV pp collisions with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1807.08639; Physical Review D 98 (2018), 052003

Search for invisible Higgs boson decays in vector boson fusion at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1809.06682; Submitted to

Physics Letters B

Measurement of photon-jet transverse momentum correlations in 5.02 TeV Pb+Pb and pp collisions with ATLAS. The ATLAS collaboration (M. Aaboud et al.); arXiv:1809.07280; Submitted to Physics Letters B

Search for heavy Majorana or Dirac neutrinos and right-handed W gauge bosons in final states with two charged leptons and two jets at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1809.11105; Submitted to Journal of High Energy Physics

Measurement of the top quark mass in the $t\bar{t}$ lepton+jets channel from $\sqrt{s}=8$ TeV ATLAS data and combination with previous results. The ATLAS collaboration (M. Aaboud et al.); arXiv:1810.01772; Submitted to European Physical Journal C

Comparison between simulated and observed LHC beam backgrounds in the ATLAS experiment at $\sqrt{s} = 4$ TeV. The ATLAS collaboration (M. Aaboud et al.); arXiv:1810.04450; Submitted to JINST

Measurement of the $Z\gamma \rightarrow \nu\bar{\nu}\gamma$ production cross section in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector and limits on anomalous triple gauge-boson couplings. The ATLAS collaboration (M. Aaboud et al.); arXiv:1810.04995; Submitted to Journal of High Energy Physics

Measurement of the photon identification efficiencies with the ATLAS detector using LHC Run 2 data collected in 2015 and 2016. The ATLAS collaboration (M. Aaboud et al.); arXiv:1810.05087; Submitted to European Physical Journal C

Measurements of W and Z boson production in pp collisions at $\sqrt{s}=5.02$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1810.08424; Submitted to European Physical Journal C

Search for four-top-quark production in the single-lepton and opposite-sign dilepton final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1811.02542; Submitted to Physical Review Letters

Search for four-top-quark production in the single-lepton and opposite-sign dilepton final states in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1811.02305; Submitted to Physical Review D

Search for Higgs boson pair production in the $b\bar{b}WW^{(*)}$ decay mode at $\sqrt{s}=13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1811.04671; Submitted to Journal of High Energy Physics

Search for long-lived particles produced in pp collisions at $\sqrt{s}=13$ TeV that decay into displaced hadronic jets in the ATLAS muon spectrometer. The ATLAS collaboration (M. Aaboud et al.); arXiv:1811.07370; Submitted to Physical Review D

Cross-section measurements of the Higgs boson decaying into a pair of tau-leptons in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1811.08856; Submitted to Physical Review D

Study of the hard double-parton scattering contribution to inclusive four-lepton production in pp collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1811.11094; Submitted to Physics Letters B

Search for Higgs boson pair production in the $WW^{(*)}WW^{(*)}$ decay channel using ATLAS data recorded at $\sqrt{s}=13$ TeV. The ATLAS collaboration (M. Aaboud et al.); arXiv:1811.11028; Submitted to Journal of High Energy Physics

Measurements of fiducial and differential cross-sections of $t\bar{t}$ production with additional heavy-flavour jets in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. The

ATLAS collaboration (M. Aaboud et al.); arXiv:1811.12113; Submitted to Journal of High Energy Physics

Measurements of inclusive and differential fiducial cross-sections of $t\bar{t}\gamma$ production in leptonic final states at $\sqrt{s}=13$ TeV in ATLAS. The ATLAS collaboration (M. Aaboud et al.); arXiv:1812.01697; Submitted to European Physical Journal C

Study of the rare decays of B^0_s and B^0 mesons into muon pairs using data collected during 2015 and 2016 with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1812.03017; Submitted to Journal of High Energy Physics

Search for heavy long-lived multi-charged particles in proton-proton collisions at $\sqrt{s} = 13$ TeV using the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1812.03673; Submitted to Physical Review D

Electron and photon energy calibration with the ATLAS detector using 2015-2016 LHC proton-proton collision data. The ATLAS collaboration (M. Aaboud et al.); arXiv:1812.03848; Submitted to JINST

Search for Higgs boson pair production in the $\gamma\gamma WW^{**}$ channel using pp collision data recorded at $\sqrt{s}=13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1807.08567; European Physical Journal C 78 (2018), 1007

Search for single production of vector-like quarks decaying into Wb in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1812.07343; Submitted to Journal of High Energy Physics

Properties of $g \rightarrow b\bar{b}$ at small opening angles in pp collisions with the ATLAS detector at $\sqrt{s}=13$ TeV. The ATLAS collaboration (M. Aaboud et al.); arXiv:1812.09283; Submitted to Physical Review D

Search for chargino and neutralino production in final states with a Higgs boson and missing transverse momentum at $\sqrt{s}=13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1812.09432; Submitted to Physical Review D

Observation of electroweak $W^+\gamma Z$ boson pair production in association with two jets in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1812.09740; Submitted to Physics Letters B

Search for large missing transverse momentum in association with one top-quark in proton-proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1812.09743; Submitted to Journal of High Energy Physics

Search for top-quark decays $t \rightarrow Hq$ with 36 fb^{-1} of pp collision data at $\sqrt{s} = 13$ TeV with the ATLAS detector. The ATLAS collaboration (M. Aaboud et al.); arXiv:1812.11568; Submitted to Journal of High Energy Physics

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

Zodpovedný riešiteľ:	Ivan Králik
Trvanie projektu:	1.1.2016 / 31.12.2020
Evidenčné číslo projektu:	0206/2016
Organizácia je	áno
koordinátorom projektu:	
Koordinátor:	Ústav experimentálnej fyziky SAV

Počet spoluriešiteľských inštitúcií:	97 - Arménsko: 1, Brazília: 0, Kuba: 1, Česko: 3, Nemecko: 7, Dánsko: 1, Fínsko: 1, Francúzsko: 8, Veľká Británia: 1, Grécko: 0, Chorvátsko: 2, Maďarsko: 1, Švajčiarsko: 1, Čína: 2, India: 8, Taliansko: 13, Japonsko: 3, Kórejská republika: 4, Mexiko: 4, Holandsko: 2, Nórsko: 3, Peru: 1, Poľsko: 3, Portugalsko: 0, Rumunsko: 2, Rusko: 10, Švédsko: 1, Ukrajina: 1, USA: 12, JAR: 1
Čerpané financie:	Ministerstvo školstva, vedy výskumu a športu Slovenskej republiky: 60000 €

Dosiahnuté výsledky:

ALICE (KRÁLIK I., KRIVDA M., MUŠINSKÝ J., Vaľa M.), ϕ meson production at forward rapidity in Pb-Pb collisions at $\sqrt{s(NN)}=2.76$ TeV, EUROPEAN PHYSICAL JOURNAL C, Volume: 78, Issue: 7, Article number: 559, DOI: 10.1140/epjc/s10052-018-6034-3
ALICE (KRÁLIK I., KRIVDA M., MUŠINSKÝ J., Vaľa M.), Production of deuterons, tritons, He-3 nuclei, and their antinuclei in pp collisions at $\sqrt{s}=0.9, 2.76$, and 7 TeV, PHYSICAL REVIEW C, Volume: 97, Issue: 2, Article number: 024615, DOI: 10.1103/PhysRevC.97.024615

ALICE (KRÁLIK I., KRIVDA M., MUŠINSKÝ J., Vaľa M.), $\Lambda^+(c)$ production in pp collisions at $\sqrt{s}=7$ TeV and in p-Pb collisions at $\sqrt{s(NN)}=5.02$ TeV, JOURNAL OF HIGH ENERGY PHYSICS, Issue: 4, Article number: 108, DOI: 10.1007/JHEP04(2018)108

Programy: Multilaterálne - iné

12.) JEM-EUSO, Kozmické Observatórium Extrémneho Vesmíru na palube Japonského Experimentálneho Modulu (*JEM-EUSO, Extreme Universe Space Observatory Onboard Japan Experiment Module*)

Zodpovedný riešiteľ:	Pavol Bobík
Trvanie projektu:	1.1.2010 / 31.12.2018
Evidenčné číslo projektu:	MVTS JEM-EUSO
Organizácia je koordinátorom projektu:	nie
Koordinátor:	INFN & University of Rome Tor Vergata, Rome
Počet spoluriešiteľských inštitúcií:	27 - Bulharsko: 1, Nemecko: 2, Alžírsko: 0, Španielsko: 2, Francúzsko: 2, Švajčiarsko: 2, Taliansko: 2, Japonsko: 2, Kórejská republika: 2, Mexiko: 2, Poľsko: 2, Rumunsko: 1, Rusko: 2, Slovensko: 2, Švédsko: 1, USA: 2
Čerpané financie:	- Podpora medzinárodnej spolupráce z národných zdrojov: 20000 €

Dosiahnuté výsledky:

Aktivity riešiteľského tímu boli v roku 2018 zamerané najmä na dve témy. Na určenie odozvy produkcie airglow žiarenia na narušenia magnetosféry pre pozemné merania. Výsledkom je publikácia [1] s odhadom poklesu intenzity airglow žiarenia v závislosti od stupňa narušenia magnetosféry popísaného Dst indexom pre vybrané pozície na povrchu Zeme. Tými sú observatória s vhodnými meteorologickými podmienkami a séria pozícií pozdĺž hranice aurorálneho oválu pre veľmi narušenú magnetosféru ($K_p=8$). Druhou oblasťou bolo vyhodnotenie meraní UV pozadia z letu EUSO balónu v roku 2014. Táto aktivita bola pokračovaním prác z minulých rokov, ktoré v roku 2018 dospeli k zverejneniu článku [2] s finálnymi závermi analýzy. Článok bol zverejnený ako celokolaboračný s autorským listom kolaborácie a korešpondujúcim autorom z riešiteľského tímu projektu.

1. Putis, M., Bobik, P., & Mackovjak, S. (2018). Method for analysis of the effect of geomagnetic disturbances on Ultraviolet airglow intensity. *Earth and Space Science* (Q1, IF (2017): 3.22), 5, 790–800
2. The JEM-EUSO Collaboration, 2018, Ultra-violet imaging of the night-time earth by EUSO-Balloon towards space-based ultra-high energy cosmic ray observations, *Astroparticle Physics*, in press (Q2, IF (2017): 3.203)
3. The JEM-EUSO Collaboration, First observations of speed of light tracks by a fluorescence detector looking down on the atmosphere, *Journal of Instrumentation*, 13, P0523 (Q2, IF (2017): 1.258)
4. The JEM-EUSO Collaboration, EUSO-TA - First results from a ground-based EUSO telescope, *Astroparticle Physics*, 102, 98 (Q2, IF (2017): 3.203)

Programy: Bilaterálne - iné

13.) RE211 nanorozmerové piningové centrá v REBCO masívnych supravodičoch vytvorené MPP procesom (*RE211 nanosize pining centers in REBCO bulks formed by modified precursor powder process*)

Zodpovedný riešiteľ: Pavel Diko
Trvanie projektu: 1.1.2018 / 31.12.2019
Evidenčné číslo projektu: SK-CN 2017
Organizácia je áno
koordinátorom projektu:
Koordinátor: Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských 0
inštitúcií:
Čerpané financie: -

Dosiahnuté výsledky:

1. P. Diko, P. Hajdová, Microstructure analyses of SmBCO and NdBCO bulk superconductors prepared from modified precursors. Prednáška na seminári skupiny masívnych supravodičov Department of Physics and Astronomy, Shanghai Jiao Tong University, November 28, 2018
2. Pracovný pobyt P. Diko, P. Hajdova z LMF ÚEF SAV na Department of Physics and Astronomy, Shanghai Jiao Tong University.
3. Pracovný pobyt dvoch doktorandov (H. Simin, Q. Jun) z Department of Physics and Astronomy, Shanghai Jiao Tong University v LMF ÚEF SAV.

14.) Identifikácia a mechanizmus účinku malých molekúl využívaných v tradičnej čínskej medicíne na liečbu Alzheimerovej choroby (*Discovery and Mechanism of Small Molecule Compounds from Traditional Chinese Medicine for treatment of Alzheimer's Disease*)

Zodpovedný riešiteľ: Zuzana Gažová
Trvanie projektu: 1.1.2018 / 31.12.2019
Evidenčné číslo projektu: SK-CN-2017-0033
Organizácia je áno
koordinátorom projektu:

Koordinátor: Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských inštitúcií: 1 - Čína: 1
Čerpané financie: -

Dosiahnuté výsledky:

Sledovali sme potenciál malých molekúl na liečbu Alzheimerovej choroby, ktoré boli extrahované z tradičných liečivých čínskych bylín. Zamerali sme sa na štúdium ich účinku na aktivitu γ -sekreázy, ako aj na tvorbu amyloidných A β -peptidových plakov. Zistili sme, že niektoré extrakty sú schopné ovplyvniť tvorbu amyloidných agregátov, intenzita inhibície závisela od štruktúry malej molekuly. Najúčinnšie boli tanšínóny a kyselina šalviová, ktoré boli extrahované zo Šalvie lekárskej.

Z. BEDNARIKOVA, M. GANCAR, K. ULICNA, D. FEDUNOVA, S. S.-S. WANG, J. WU, R. WANG, Y. TANG, L. MA, B.-B. ZHENG, Z. GAZOVA - Effect of natural and synthetic small molecules on aggregation of globular proteins. In: 8-th Slovak Biophysical Symposium, Košice, Slovakia, 30.5.-1.6. 2018, Book of contributions, p. 22

15.) Účinok malých molekúl a nanočastíc na amyloidnú agregáciu poly/peptidov (*Effect of small molecules and nanoparticles on amyloid aggregation of poly/peptides*)

Zodpovedný riešiteľ: Zuzana Gažová
Trvanie projektu: 11.1.2016 / 31.12.2018
Evidenčné číslo projektu: SAS – MOST Joint Research Cooperation
Organizácia je áno
koordinátorom projektu:
Koordinátor: Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských inštitúcií: 1 - Taiwan: 1
Čerpané financie: -

Dosiahnuté výsledky:

Injekčne lokalizovaná amyloidóza sa vyskytuje u pacientov, ktorí sú dlhodobo liečení injekčne podávaným inzulínom. Redukcia amyloidných agregátov inzulínu predstavuje jednu zo stratégií liečby tohto ochorenia. Sledovali sme efekt dextransom modifikovaných magnetických nanočastíc na tvorbu amyloidných agregátov inzulínu. Zistili sme, že nanočastice sú schopné účinne inhibovať tvorbu agregátov, miera inhibície závisela od fyzikálno chemických vlastností dextransu použitého na modifikáciu nanočastíc – od ich veľkosti a koncentrácie. Pokrytie maghemitového jadra dextransom je pre inhibičný účinok nevyhnutné, pretože samotné maghemitové jadro nie je schopné inhibovať tvorbu agregátov. Najlepší inhibičný účinok mali dietylaminoetyl-dextransové nanočastice. Dominantnými interakciami zodpovednými za inhibičný efekt sú vodíkové a van der Waalsove interacie. V prípade lyzozýmu bol podobný anti- amyloidný účinok pozorovaný pre malé molekuly, konkrétne pre metylovú modrú a takrínne/akridón-kumarínové heterodiméry. Metylová modrá je schopná inhibovať tvorbu fibríl lyzozýmu viazaním do amyloidnej oblasti v jeho štruktúre. Táto interakcia stabilizuje natívnu konformáciu lyzozýmu čo vedie k inhibícii tvorby fibríl. Zistili sme, že metylová modrá je navyše schopná destabilizovať lyzozýmové fibrily. Ďalej sme študovali inhibičný potenciál 3 štruktúrne odlišných takrín/akridón – kumarínových derivátov spojených linkerami rôzneho typu a dĺžky. Zistili sme, že štruktúra funkčných molekúl ako aj typ linkera významne ovplyvňuje ich inhibičnú aktivitu. Takrín-kumarínový heterodimér s alkyléndiamínovým linkerom mal výraznejšiu inhibičnú aktivitu v porovnaní s rovnakým heterodimérom obsahujúcim alkylén polyamínový linker. Dĺžka linkera nemala žiaden efekt na inhibičnú aktivitu. Akridón-kumarínové diméry nevykazovali žiadnu inhibičnú aktivitu. Pre najúčinnjší inhibítor sme potvrdili

jeho biokompatibilitu meraním prežívania neuroblastomových bunkových kultúr. Získané výsledky môžu byť užitočné pri navrhovaní a vývoji nových liečebných postupov pre choroby súvisiace s amyloidmi.

- [1] LU, N.-H.-HOW, S.-CH., LIN, CH.-Y., TSAI, S.-L., BEDNARIKOVA, Z.- FEDUNOVA, D.-GAZOVA, Z.- WU, W. J.- WANG, S. S.-S. Examining the effects of dextran-based polymer-coated nanoparticles on amyloid fibrillogenesis of human insulin. In: Colloids and Surfaces B: Biointerfaces, 2018, vol. 172, pp. 674-683. (IF 3.997, Q1)
- [2] ULICNA, K.- BEDNARIKOVA, Z.- HSU, W.-T. HOLZTRAGEROVA, M.- WU, J. W.-HAMULAKOVA, S.- WANG, S. S.-S.-GAZOVA, Z. Lysozyme amyloid fibrillization in presence of tacrine/acridone-coumarin heterodimers. Colloids and Surfaces B: Biointerfaces, 2018, vol. 166, pp. 108–118. (IF 3.997, Q1)
- [3] BEDNARIKOVA, Z. – GANCAR, M. - ULICNA, K.- FEDUNOVA, D. - WANG, S. S.-S.-WU, J. W - R., WANG, R. – TANG, Y. – MA, L. – ZHENG B. B. -GAZOVA, Z. Effect of natural and synthetic small molecules on aggregation of globular proteins. 8th Slovak Biophysical Symposium, May 30 – June 1, 2018, Kosice, Slovakia, Book of Contributions, PL2, pp. 22.
- [4] ANTOSOVA, A. - BEDNARIKOVA, Z. - KONERACKA, M. - ZAVISOVA, V. - KUBOVCIKOVA, M. - ANTAL, I.- MAREK, J. -GAZOVA, Z. Amino acids functionalized magnetic nanoparticles as lysozyme amyloid inhibitors. 8th Slovak Biophysical Symposium, May 30 – June 1, 2018, Kosice, Slovakia, Book of Contributions, SC5, pp. 33 - 34.
- [5] BEDNARIKOVA, Z. – NEDZIALEK, D. – WIECZOREK, G. – KOZMINSKI, P. -GAZOVA, Z. A novel approach to treating Alzheimer's disease? Photoswitchable molecules. 8th Slovak Biophysical Symposium, May 30 – June 1, 2018, Kosice, Slovakia, Book of Contributions, PO01, pp. 50.
- [6] GANCAR, M. - THAI, N. G. - BEDNARIKOVA, Z. – LINH, - H. Q. – HU, C. K. – LI, M. S. GAZOVA, Z. Compound CID 9998128 - a potential multi-target drug for Alzheimer's disease. 4th NGP-NET Symposium on Non-Globular proteins, September 12 – 14, 2018, Druskininkai, Lithuania, Book of Abstracts, pp. 72 - 73.

16.) Dynamické štúdium amyloidnej agregácie proteínov pomocou magnetických zeolitových nanočastíc (*Dynamical study of formation/destruction of protein amyloid aggregates targeted by magnetic zeolite nanocomposites*)

Zodpovedný riešiteľ:	Peter Kopčanský
Trvanie projektu:	1.1.2018 / 31.12.2020
Evidenčné číslo projektu:	
Organizácia je	áno
koordinátorom projektu:	
Koordinátor:	Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských	1 - Taiwan: 1
inštitúcií:	
Čerpané financie:	-

Dosiahnuté výsledky:

V rámci riešenia cieľov projektu sme sa zamerali na 3 čiastkové úlohy projektu:

- Štúdium vplyvu zeolitových nanočastíc na amyloidnú agregáciu proteínov
- Štúdium vplyvu surfaktantov na amyloidnú agregáciu s cieľom ich použitia na povrchovú modifikáciu nanočastíc

iii) Štúdium vplyvu magnetitových nanočastíc na stabilitu a štruktúru amyloidných agregátov.

Preukázali sme, že zeolitové nanočastice dokážu v závislosti od svojej veľkosti účinne ovplyvniť proces formovania amyloidných fibríl modelových systémov a taktiež disponujú schopnosťou rozrušiť amyloidné štruktúry. Najvyššou anti-amyloidnou aktivitou sa prejavili najmenšie zeolitové nanočastice; pričom táto aktivita bola posilnená prítomnosťou magnetitových nanočastíc. Získané výsledky sú pripravené na zaslanie do vybraného časopisu.

Medzi nanočastice, ktoré môžu byť použité pri dopovaní zeolitov patria nanočastice céria s výnimočnými, aj katalytickými vlastnosťami. V rámci štúdia sme ukázali ich inhibičný potenciál na proces amyloidnej agregácie. Naopak, pri ich dodaní k stabilným fibrilám dochádza k ich naviazaniu na povrch s minimálnym deštruktívnym efektom. Tieto získané údaje nám môžu napomôcť v príprave sondy na monitorovanie výskytu amyloidných štruktúr [1].

Jedným z čiastkových cieľov projektu je aj hľadanie látky vhodnej na povrchovú modifikáciu nanočastíc/zeolitov; ideálne takej, ktorá by špecificky interagovala so štruktúrnym motívom amyloidných fibríl. Venovali sme sa detailnému štúdiu účinku neiónového detergentu Tritonu X-100 na amyloidnú agregáciu inzulínu a na stabilitu inzulínových fibríl. Zistili sme, že v závislosti od pomeru proteínu k detergentu sa účinok pohybuje od čiastočnej inhibície fibrilizácie inzulínu, cez formovanie fibríl s dramaticky zmenenou morfológiou až po úplnú inhibíciu fibrilizácie. Tento efekt je spôsobený prítomnosťou viacerých väzobných miest na inzulíne. Tieto výsledky môžu napomôcť pri cieľenej modifikácii povrchu nanočastíc a ich ďalšej aplikácii ako dopant [2].

V rámci dynamického štúdia amyloidnej agregácie sa ako vhodný prístup javí monitorovanie využitím magnetitových nanočastíc. Za týmto účelom sme študovali vplyv prítomnosti Fe₃O₄ na štruktúru a stabilitu fibrilárnych útvarov. Bolo zistené, že významnú úlohu zohráva pomer častice:fibrily. Naopak, adsorpcia nanočastíc na povrchu nie je ovplyvnená morfológiou nanočastíc. Predpokladáme, že samotná interakcia závisí od tvarovej anizotropie častíc. Získané výsledky sú v recenznom konaní [3,4].

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[3] J. Majorosova, M.A. Schroer, M. Batkova, N. Tomasovicova, P.-S. Hu, M. Kubovcikova, D. I. Svergun, P. Kopcansky - Nanostructures from magnetic nanoparticles modified amyloid fibrils and their stability. Colloids and Surfaces B: Biointerfaces; *submitted*

[4] V. Gdovinová, N. Tomašovičová, A. Olejniczak, V. M. Garamus, V. I. Petrenko, D. Zákutná, J. Majorošová, P.-S. Hu, O. I. Ivankov, M.V. Avdeev, P. Kopčanský - Nanocomposites of lysozyme amyloid fibrils and magnetic nanoparticles of different shape anisotropy. Journal of Magnetism and Magnetic Materials; *submitted*

17.) Štúdium usporiadania, orientácie a samozbalaľovania v biopolyméroch a kvapalných kryštáloch (*Study of orientation ordering and self-assembly in biopolymer and liquid crystal*)

Zodpovedný riešiteľ:	Katarína Šipošová
Trvanie projektu:	1.1.2018 / 31.12.2019
Evidenčné číslo projektu:	SK-TW 2017-0012
Organizácia je	áno
koordinátorom projektu:	
Koordinátor:	Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských inštitúcií:	0

Čerpané financie: 0

Dosiahnuté výsledky:

Hlavné otázky výskumu zahŕňajú: i) systematické štúdium a klasifikovanie „geometrických“ efektov na rozhraní kvapalných kryštálov (aj proteínových) a zakriveným povrchom nanočastíc, ktorými budú tieto kvapalné kryštály dopované, a ii) ako sa vplyvom dopovania mení usporiadanie, resp. iii) či a ako sa šíria zmeny na rozhraniach do celého objemu kvapalného kryštálu.

Zamerali sme definovanie podmienok umožňujúcich prípravu proteínových amyloidných štruktúr metódou „zdola nahor“, ktoré môžu byť následne použité ako templát pre nové progresívne bio-nanomateriály, so špecifickými vlastnosťami a presne definovaným tvarom a veľkosťou. Získané výsledky a modely sú pripravené vo forme manuscriptu. Detailné štúdium účinku neiónového detergentu Tritonu X-100 na amyloidnú agregáciu inzulínu a na stabilitu inzulínových fibril ukázalo, že v závislosti od pomeru proteínu k detergentu sa účinok pohybuje od čiastočnej inhibície fibrilizácie inzulínu, cez formovanie fibril s dramaticky zmenenou morfológiou až po úplnú inhibíciu fibrilizácie. Tieto výsledky môžu napomôcť pri modifikácii povrchu nanočastíc a ich ďalšej aplikácii ako dopant kvapalných kryštálov

18.) Nanoštrukturované bio-hybridné materiály generované samousporiadajúcimi procesmi
(*Design of nanostructured bio-hybrid materials through self-assembly process*)

Zodpovedný riešiteľ: Natália Tomašovičová
Trvanie projektu: 1.1.2018 / 31.12.2019
Evidenčné číslo projektu: SK-TW-2017-0002
Organizácia je áno
koordinátorom projektu:
Koordinátor: Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 4000 €

Dosiahnuté výsledky:

Jedným z cieľov projektu je pripraviť bio-anorganické hybridy na báze kvapalného kryštálu formovaného fibrilami lysozomu dopovaného magnetickými nanočasticami, študovať interakciu medzi magnetickými nanočasticami a fibrilami ako aj usporiadané štruktúry formované týmito kompozitami. Naše výsledky ukázali, že tvar usporiadaných štruktúr závisí od prítomnosti magnetických nanočastíc a ich tvarovej anizotropie. Študovali sme tiež vplyv objemovej koncentrácie a rozmeru nanočastíc na formovanie usporiadaných štruktúr v magnetickom poli a bez poľa.

N. Tomašovičová, P.-S. Hu, C.L. Zeng, J. Majorošová, K. Zakuťanská, P. Kopčanský: Dual Size-Dependent Effect of Fe₃O₄ Magnetic Nanoparticles Upon Interaction with Lysozyme Amyloid Fibrils: Disintegration and Adsorption, *Nanomaterials* 2019, 9, 37

Programy: ERANET

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

Zodpovedný riešiteľ: Peter Kopčanský
Trvanie projektu: 1.9.2018 / 31.8.2021
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: 8333 €

Dosiahnuté výsledky:

Našou prvou aktivitou bol nákup novej aktívnej kultúry vyššie uvedeného bakteriálneho kmeňa *Magnetospirillum magneticum* AMB-1. Následne bola táto vzorka rekultivovaná v našich laboratórnych podmienkach s cieľom dosiahnuť väčší objem vzorky (plnenie celého termostatu) na plánované experimenty. Začali sme tiež izolovať magnetozómy z baktérií. Nové izolované magnetozómové reťazce boli dané na analýzu použitím Cordouan Vasco Flex™ DLS s odnímateľnou DLS hlavou. Tieto merania vykoná náš projektový partner – Cordouan Technologies/CNRS-LCPO vo Francúzsku.

4. októbra 2018 októbra bol zorganizovaný úvodný “kick-off” míting spoločného M-era.Net projektu “Flexible Magnetic Filaments” v Rige. Koordinátor projektu prof. Andrejs Čibers poskytol prehľad teoretických, numerických a experimentálnych prístupov vyvinutých pre flexibilné magnetické vlákna v Laboratóriu mäkkých magnetických materiálov (MMML) Lotyšskej univerzity. Dr. Guntars Kitenbergs prezentoval prehľad experimentálnych zariadení vyvinutých v MMML pre mikrofluidiku na štúdium magnetickej mikrokonvekcie a mikroreológie. Ďalší riešiteľ projektu Dr. David Jacob predstavil nové DLS zariadenie vyrobené v Corduan Technologies a vypracovanie nových mechanizmov pre meranie na základe depolarizovaného rozptylu. Dr. Olivier Sandre poskytol prehľad syntézy magnetických tyčiniek založených na zabudovaní magnetických nanočastíc do kopolymérov. Dr. Peter Kopčanský a Dr. Matúš Molčan predstavili výskum vykonávaný na Ústave experimentálnej fyziky (IEP) a to najmä získavanie a skúmanie vlastností magnetozómových reťazcov.

Bolo formulovaných niekoľko záverov o ďalšej spolupráci medzi tímami, konkrétne, meranie magnetickej susceptibility súborov magnetozómových reťazcov v striedavom poli na IEP pre overenie teoretických modelov vyvinutých v MMML; DLS depolarizované merania prevádzané Corduan Technologies na skúmanie vlastností reťazcov magnetozómov pripravených na IEP, začlenenie fluorescenčných markerov (Corduan Technologies) do reťazcov magnetozómov na štúdium deformácie, prípadne vlastného pohonu reťazcov magnetozómov (IEP), v prípade že to bude úspešné, bude vytvorený teoretického popis získaných výsledkov (MMML).

Prvotné výstupy sú v podobe podanej práce “Hyperthermic effect in magnetoferritin aqueous colloidal solution” v Journal of Molecular Liquids.

20.) Nové magnetické biomateriály pre obnovu mozgu a zobrazovanie po mozgovej príhode (*New MAGnetic Biomaterials for Brain Repair and Imaging after Stroke*)

Zodpovedný riešiteľ:	Peter Kopčanský
Trvanie projektu:	1.3.2018 / 28.2.2021
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Fundació Hospital Universitari Vall d' Hebron – Institut de Recerca (VHIR)
Počet spoluriešiteľských inštitúcií:	6 - Španielsko: 2, Francúzsko: 2, Taliansko: 1, Poľsko: 1
Čerpané financie:	-

Dosiahnuté výsledky:

Tento projekt predstavuje novú ideu dopravy aktívnej latky potrebnej pre nápravu poškodennej časti mozgu po mozgovej príhode použitím nanobiomateriálu a magnetického systému na jeho fokusáciu. Pri riešení projektu plánujeme pripraviť špecifický biomateriál obsahujúci magnetické nanočastice (SPION) a fluorescenčné značenie integrované do PLGA nanokapsúl obsahujúcich produkt, ktorý dokáže vylepšiť regeneráciu tkaniva po infarkte prostredníctvom obnovy cievneho a nervového systému. Počas riešenia bude pripravený magnetický systém adaptovaný na hlavu myši.

Zámerom riešenia projektu MAGBBRIS z našej strany bola návrh a príprava špeciálneho fokusovaného magnetu vhodného pre cielený transport magneticky značeného liečiva na požadované miesto. V tomto prípade sa jednalo o myšky po mozgovej príhode. V tomto smere naša aktivita bola najprv zameraná na teoretické štúdium uvedeného problému a teoretické modelovanie pomocou špeciálneho programu QUICKFIED. Tento program umožňuje tvorbu rôznych teoretických modelov, ktoré následne umožnia realizovať vhodný fokusovaný magnet. Získané výsledky poukazujú na fakt, že využitie permanentných magnetov s menším priemerom umožňuje získať požadovaný efekt. Pre praktické testy a overenie modelov v praxi bolo zakúpených niekoľko druhov komerčne dostupných permanentných magnetov typu FeNbB. Testovanie sme realizovali pre rôzne geometrické rozmery a geometrické usporiadanie magnetov využitím železných pilín (mikrometrické rozmery) rozptýlených v minerálnom oleji a tiež interakcie permanentných magnetov s magnetickou kvapalinou na baze oleja s nanočasticami.

Z testov je zrejme, že permanentný magnet valcovitého tvaru rozmerov 4x4 mm je účinnejší ako magnet, ktorý doteraz kolegovia zahrnutí v projekte používali. Väčšej účinnosti zatiaľ bráni obmedzenie geometrických rozmerov magnetu, ktoré vzhľadom na rozmer mozgu myši musia byť dodržané. Problémom sa javí tiež lokálne minimum v priebehu fokusovaného spektra, ako to vyplýva z modelu aj z praktických testov. V ďalšom výskume sa zameriame na zvýšenie účinnosti a zlepšenie fokusácie magnetického poľa pri zachovaní limitovaných geometrických rozmerov. V tejto etape zasielame partnerom z projektu zasielame na testovanie upravený magnet 4x4 mm a 2x4 mm.

Venovali sme sa tiež štúdiu magnetických vlastností nanokapsul pripravených v rámci projektu, ktoré majú byť využité pre cielený transport. Nanokapsule obsahujú 6 %wt superparamagnetického oxidu železa (SPIONs) s priemerom nanočastíc 9 nm. Nanočastice vykazujú superparamagnetické vlastnosti s magnetizáciou 52 emu/g (Am²/kg) v magnetickom poli 50kOe (5T).

Electrical and dielectrical properties of composites based on (Ag_{1-x}Cu_x)₇GeS₅I mixed crystals
V.Yu. Izai, V.I. Studenyak, , A.I. Pogodin, I.P. Studenyak, M. Rajnák, J. Kurimsky, M. Timko, P. Kopcanský, SPQEO, 2018. V. 21, N 4. P. 387-39, ISSN 1560-8034, 1605-6582 (On-line)

Programy: European Space Agency (ESA)

21.) 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 / 30.10.2020
Evidenčné číslo projektu:	ESA-PECS SK3-03, Contract No. 4000125788/18/NL/SC
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Švédsky ústav kozmickej fyziky (IRF), Kiruna
Počet spoluriešiteľských	0

inštitúcií:

Čerpané financie: -

Dosiahnuté výsledky:

Bol ukončený vývoj technologického modelu ACM/EM (Engineering Model) anti-koincidenčného modulu pre vedecký komplex PEP (Particle Environment Package) misie JUICE. Modul ACM/EM bol doručený na integráciu do Švédskeho ústavu kozmickej fyziky (IRF) v Kirune.

22.) Štúdia vykonateľnosti pre pozorovania ionosférických narušení jednopixelovým UV detektorom (*Feasibility study to observe ionospheric disturbances by one pixel UV detector*)

Zodpovedný riešiteľ: Pavol Bobík
Trvanie projektu: 1.6.2016 / 30.4.2018
Evidenčné číslo projektu: 4000117740
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

V roku 2018 projekt dospel do svojej finálnej fázy a rámci Work Package 1 k vypracovaniu záverečnej správy. Záverečná správa bola prezentovaná na záverečnom mítingu v ESTEC centre Európskej vesmírnej agentúry ESA.

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

Zodpovedný riešiteľ: Šimon Mackovjak
Trvanie projektu: 1.10.2018 / 30.9.2020
Evidenčné číslo projektu: ESA-PECS SK2-09
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

24.) SPACE:LAB - place to attract, educate and involve young generation in space science and engineering

Zodpovedný riešiteľ: Šimon Mackovjak
Trvanie projektu: 1.12.2018 / 30.11.2020
Evidenčné číslo projektu: ESA-PECS SK3-02
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV

Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

Programy: Iné

25.) 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
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

Kvantitatívna analýza vzoriek YBCO masívnych monokryštalických supravodičov v Laboratóriu materiálnej fyziky UEF SAV vyrobených v CAN superconductors ukázala na závislosť objemového podielu pinigových centier v podobe nesupravodivých častíc na vzdialenosti od zárodka v základných kryštálových smeroch ale aj závislosť na aplikovanej výrobnéj technológii.

Programy: JRP

26.) Nové magneticky mäkké jadrá pre satelitné zariadenia a magnetometre pracujúce v kozmických podmienkach. (*Novel soft magnetic cores tailored for use in space qualified magnetometers and satellite devices*)

Zodpovedný riešiteľ: Ivan Škorvánek
Trvanie projektu: 1.9.2018 / 31.8.2021
Evidenčné číslo projektu: 1/2018
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských inštitúcií: 3 - Slovensko: 2, Turecko: 1
Čerpané financie: -

Dosiahnuté výsledky:

Urobili sme základnú analýzu vlastností existujúcich amorfných a nanokryštalických magneticky mäkkých systémov s ohľadom na požiadavky projektu. Navrhli sme zloženia potenciálnych kandidátov na materiály jadier magnetometrov a torzných tyčí satelitov, s ohľadom na požadovanú teplotnú stabilitu magnetických parametrov. Skonstruovali sme aparaturu na ultrarýchle žihanie vzoriek, čo umožní znížiť množstvo nemagnetických prvkov pri zachovaní jemnej nanokryštalickej štruktúry v študovaných zliatinách. Túto techniku žihania plánujeme použiť v ďalšom priebehu riešenia projektu na dosiahnutie vysokých hodnôt magnetizácie v nasýtení pri zachovaní dobrých magneticky mäkkých charakteristík nanokryštalických materiálov na báze Fe a Co. Časť našich

výskumných aktivít sme venovali aj technike tepelného spracovania amorfných a nanokryštalických materiálov v externom magnetickom poli, za účelom cieleného ovplyvňovania ich magneticky mäkkých vlastností a senzorových charakteristík pre aplikácie v jadrách magnetometrov [1,2]. Špeciálne techniky spracovania materiálov sme aplikovali na systém zliatin Co-Fe-Nb-B bohatých na kobalt (abstrakt zaslaný na konferenciu PAMIR 2019).

[1] Ivan Škorvánek, Jozef Marcin, Branislav Kunca, Frantisek Andrejka, Peter Švec, Amorphous and nanocrystalline bilayer composites with tailorable soft magnetic properties, " The 9th International Workshop on Advanced Materials Science and Nanotechnology, IWAMSN 2018" Ninh Binh, Vietnam, 7. -11. 11. 2018, Programme and Abstracts, pages 193-194. Pozvaná prednáška

[2] Ivan Škorvánek, Branislav Kunca, František Andrejka, Peter Švec, Jozef Marcin, Peter Švec Sr., Amorphous and nanocrystalline bilayer ribbon composites for magnetic sensors, vedecká konferencia: „Funkčné kompozitné materiály“ Košice, 16. október 2018. Zborník abstraktov, strana 7, ISBN: 978-80-89782-11-6, Pozvaná prednáška

Domáce projekty

1.) Satelitné detektory pre kozmofyzikálny výskum (*Satellite detectors for space physics research*)

Zodpovedný riešiteľ:	Ján Baláž
Trvanie projektu:	1.1.2016 / 31.12.2018
Evidenčné číslo projektu:	VEGA 2-0077-16
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	0

Dosiahnuté výsledky:

Bol ukončený vývoj technologického modelu (EM) antikoincidenčného detektora ACM pre plazmový komplex PEP pre misiu ESA-JUICE k planéte Jupiter a jej mesiacom. Bola realizovaná energetická kalibrácia pomocou monoenergetických častíc s rádioizotopmi Am241 a Cd109, termovákuové testy v rozsahu -70°C...+85°C a vibračno-akceleračné testy. Technologický model bol vyexpedovaný do Ústavu kozmických výskumov (IRF) Kiruna, Švédsko, kde bol úspešne integrovaný do technologického modelu aparatury PEP. Pokračujú práce na realizácii letového modelu ACM/FM.

Pokračoval vývoj jedno-pixelového detektora UV žiarenia AMON, ktorý bol rozšírený o infračervený detektor mrakov a externý snímač teploty. Existujúce inštalácie v Mexiku a na Teneriffe boli rozšírené o inštaláciu v Astronomickom observatóriu v Kolonickom sedle (Park tmavej oblohy Poloniny).

Publikácie:

Mackovjak, S., Bobík, P., Baláž, J., Strhárský, I., Putiš, M., Gorodetzky, P.: Airglow Monitoring by One-pixel Detector. Nuclear Instruments and Methods in Physics Research, A, <https://doi.org/10.1016/j.nima.2018.12.073>

Lu, L., McKenna-Lawlor, S., Balaz, J. Close up observation and inversion of low-altitude ENA emissions during a substorm event. Science China - Earth Sciences, 2018, <https://doi.org/10.1360/N072018-00206>

2.) Úloha povrchových stavov v hexaboride samária a iných zmiešanovalenčných systémoch vykazujúcich prechod kov-izolátor (*The role of surface states in samarium hexaboride and other valence-fluctuating systems exhibiting metal-insulator transition*)

Zodpovedný riešiteľ: Marianna Baťková
Trvanie projektu: 1.1.2017 / 31.12.2020
Evidenčné číslo projektu: 2/0015/17
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 4003 €

Dosiahnuté výsledky:

SmB6 dlhodobo vzbudzuje záujem vedcov vďaka vykazovanej “saturácii” elektrického odporu pri najnižších teplotách, ktorú však nemožno pripísať rozptylovému procesu ako u kovov. V práci [1] sme skúmali elektrický odpor monokryštalickej vzorky SmB6 až do teplôt 70 mK. Zistili sme, že (i) žiadna “saturácia” sa v skutočnosti nepozoruje”, že (ii) teplotne neaktivovaný príspevok vo vodivosti síce existuje, ale zároveň je (iii) prítomná aj dvojrozmerná vodivosť typu VRH súvisiaca s povrchovou alebo pripovrchovou vodivosťou.

Vďaka odladeniu technológie prípravy tenkých filmov SmB6 metódou PLD prezentovanej v práci [2] sme boli schopní skúmať aj elektrické vlastnosti tenkých filmov, pričom sme potvrdili prítomnosť teplotne aktivovanej aj teplotne neaktivovanej vodivosti pri najnižších teplotách [2]. Získané výsledky sú konzistentné s predstavou teplotne aktivovanej objemovej a kovovej povrchovej vodivosti v SmB6, aj s anomálnou distribučnou funkciou nosičov náboja v SmB6 (prezentovanou v najnovšej práci "SmB6 : A material with anomalous energy distribution function of charge carriers?", ktorá vyjde v roku 2019 v časopise Materials Letters).

Na konferencii: The International Conference on Nanosciences & Nanotechnology, konanej 3–6 júla 2018 v Tesalonikách, v Grécku (NN18) sme prezentovali poster s názvom: Electrical Properties of SmB6 Thin Films Prepared by Pulsed Laser Deposition.

1.BAŤKOVÁ, Marianna - BAŤKO, Ivan - GABÁNI, Slavomír - GAŽO, Emil - KONOVALOVA, E. - FILIPPOV, Vladimir. Low temperature resistivity studies of SmB6: Observation of two-dimensional variable-range hopping conductivity. In Physica B: Condensed Matter, 2018, vol. 536, p. 200-202 (best quartile Scimago 2017 – Q2, IF2017 – 1.453).

2.BAŤKOVÁ, Marianna - BAŤKO, Ivan - STOBIECKI, F. - SZYMANSKI, B. - KUSWIK, Piotr - MACKOVÁ, A. - MALINSKÝ, Petr. Electrical properties of SmB6 thin films prepared by pulsed laser deposition from a stoichiometric SmB6 target. In Journal of Alloys and Compounds, 2018, vol. 744, p. 821-827 (best quartile Scimago 2017– Q1; IF2017 – 3.779).

3.) Analýza meraní z experimentov EUSO-SPB, Mini-EUSO a siete pozemných UV detektorov (*Analysis of EUSO-SPB, Mini-EUSO and ground UV detectors experiments measurement*)

Zodpovedný riešiteľ: Pavol Bobík
Trvanie projektu: 1.1.2017 / 31.12.2019
Evidenčné číslo projektu: 2/0132/17
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV

Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

Po viacročnej analýze bola dokončená rozsiahla analýza meraní údajov z letu EUSO balónu v roku 2014. Výsledky boli publikované v [1].

Pokračovali práce na analýze meraní z letu NASA EUSO-SPB balónu v roku 2017 a meraní pozemnej siete detektorov AMON-net.

1. Putis, M., Bobik, P., & Mackovjak, S. (2018). Method for analysis of the effect of geomagnetic disturbances on Ultraviolet airglow intensity. *Earth and Space Science* (Q1, IF (2017): 3.22), 5, 790–800
2. The JEM-EUSO Collaboration, 2018, Ultra-violet imaging of the night-time earth by EUSO-Balloon towards space-based ultra-high energy cosmic ray observations, *Astroparticle Physics*, in press (Q2, IF (2017): 3.203)
3. The JEM-EUSO Collaboration, First observations of speed of light tracks by a fluorescence detector looking down on the atmosphere, *Journal of Instrumentation*, 13, P0523 (Q2, IF (2017): 1.258)
4. The JEM-EUSO Collaboration, EUSO-TA - First results from a ground-based EUSO telescope, *Astroparticle Physics*, 102, 98 (Q2, IF (2017): 3.203)

4.) Kozmické energetické častice zo slnečných erupcií – mnohobodové pozorovanie od Slnka až po Lomnický štít

Zodpovedný riešiteľ: Radoslav Bučík
Trvanie projektu: 1.1.2018 / 31.12.2021
Evidenčné číslo projektu: 2/0155/18
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

Kurt, V., A. Belov, K. Kudela and B. Yushkov (2018), Some characteristics of the GLE, *Contrib. Astron. Obs. Skalnaté Pleso* 48, 329 – 338. <https://arxiv.org/pdf/1806.00226.pdf>

Chowdhury, P. & Kudela, K. (2018), Quasi-periodicities in cosmic rays and time lag with the solar activity at a middle latitude neutron monitor: 1982–2017, *Astrophys Space Sci.* (2018) 363: 250, 17 pp. <https://doi.org/10.1007/s10509-018-3467-y>

Mavromichalaki, H., M. Gerontidou, P. Paschalis, A. Tezari, C. Sgouropoulos, N. Crosby, M. Dierckxsens, V. Kurt, A. Belov, K. Kudela: Detection in real-time and post-analysis of the GLE72 event, ESWW15, Leuven, Belgium, Nov. 5 - 8, 2018, abstrakt na http://www.stce.be/esww15/program/session_details.php?nr=7#.

5.) Deformácia metastabilných amorfných a kryštalických materiálov (*Deformation of metastable amorphous and crystalline materials*)

Zodpovedný riešiteľ: Kornel Csach
Trvanie projektu: 1.1.2018 / 31.12.2021
Evidenčné číslo projektu: 2/0039/18
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 2857 €

Dosiahnuté výsledky:

Namerané objemové zmeny štyroch typov kovových skiel počas štruktúrnej relaxácie boli dané do súvisu so zmenami modulu pružnosti. Tieto zmeny boli interpretované v rámci teórie intersticiálov.

6.) Magnetoelektrický a magnetokalorický jav v exaktne riešiteľných mriežkovo-štatistických modeloch (*Magnetoelectric and magnetocaloric effect in exactly solvable lattice-statistical models*)

Zodpovedný riešiteľ: Hana Čenčariková
Trvanie projektu: 1.1.2016 / 31.12.2019
Evidenčné číslo projektu: 1/0043/16
Organizácia je koordinátorom projektu: nie
Koordinátor: Prírodovedecká fakulta UPJŠ, Košice
Počet spoluriešiteľských inštitúcií: 2 - Slovensko: 2
Čerpané financie: VEGA: 2290 €

Dosiahnuté výsledky:

- [1] Karlova, K; Strecka, J; Lyra, ML, Unconventional quantum antiferromagnetism with a fourfold symmetry breaking in a spin-1/2 Ising-Heisenberg pentagonal chain, Phys. Rev. B 94 (2018) 104407
- [2] Alecio, Raphael Cavalcante; Strecka, Jozef; Lyra, Marcelo L., Thermodynamic behavior and enhanced magnetocaloric effect in a frustrated spin-1/2 Ising-Heisenberg triangular tube, J. Magn. Magn. Matter 451 (2018) 218
- [3] Čenčariková, Hana; Strecka, Jozef; Gendiar, Andrej, Magnetization processes and existence of reentrant phase transitions in coupled spin-electron model on doubly decorated planar lattices, J. Magn. Magn. Matter 452 (2018) 512
- [4] Galisová, Lucia; Strecka, Jozef, Magnetic and magnetocaloric properties of the exactly solvable mixed-spin Ising model on a decorated triangular lattice in a magnetic field, Physica E 99 (2018) 244
- [5] Galisová, Lucia, On the ground-state degeneracy and entropy in a double-tetrahedral chain formed by the localized Ising spins and mobile electrons, Physica B 536 (2018) 498
- [6] Karlova, Katarína; Strecka, Jozef, Magnetization curves of di-, tri- and tetramerized mixed spin-1 and spin-2 Heisenberg chains, Physica B 536 (2018) 494
- [7] Čenčariková, Hana; Strecka, Jozef; Gendiar, Andrej; N. Tomasovicová, The influence of further-neighbor spin-spin interaction on a ground state of 2D coupled spin-electron model in a magnetic field, Physica B 536 (2018) 432
- [8] Strecka, Jozef; Richter, Johannes; Derzhko, Oleg; Verkholyak, Taras; Karlova, Katarína, Magnetization process and low-temperature thermodynamics of a spin-1/2 Heisenberg octahedral chain, Physica B 536 (2018) 364

- [9] Sousa, H. S.; Pereira, M. S. S.; de Oliveira, I. N.; Strecka, J; Lyra, ML, Phase diagram and re-entrant fermionic entanglement in a hybrid Ising-Hubbard ladder, Phys. Rev. E 97 (2018) 052115
- [10] Strecka, Jozef; Karlova, Katarina, Magnetization curves and low-temperature thermodynamics of two spin-1/2 Heisenberg edge-shared tetrahedra, AIP ADVANCES 8 (2018) 101403
- [11] Galisova, Lucia; Knezo, Dusan, Macroscopic ground-state degeneracy and magnetocaloric effect in the exactly solvable spin-1/2 Ising-Heisenberg double-tetrahedral chain, Phys. Lett. A 382 (2018) 2839
- [12] Strecka, Jozef; Karlova, Katarina; Baliha, Vasyľ; Derzhko, Oleg, Ising versus Potts criticality in low-temperature magnetothermodynamics of a frustrated spin-1/2 Heisenberg triangular bilayer, Phys. Rev. B 98 (2018) 174426
- [13] Cencarikova, Hana; Strecka, Jozef, Enhanced magnetoelectric effect of the exactly solved spin-electron model on a doubly decorated square lattice in the vicinity of a continuous phase transition, Phys. Rev. E 98 (2018) 032129

7.) Klasicko-kvantový prechod v mechanických rezonátoroch (*Classical to quantum crossover in mechanical resonators*)

Zodpovedný riešiteľ: Marcel Človečko
Trvanie projektu: 1.1.2018 / 31.12.2021
Evidenčné číslo projektu: 2/0086/18
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: VEGA: 7005 €

Dosiahnuté výsledky:

Dynamiku mechanických rezonátorov je možné skúmať dvoma komplementárnymi metódami, ktoré dovoľujú vykonávať merania v dvoch odlišných doménach: a) vo frekvenčnej - metódou pomalého rozmietania frekvencie použitím kontinuálnej excitácie a b) v časovej doméne - pulznými technikami, pri ktorých sa študujú tlmené voľné kmity. Cieľom našej práce je ukázať, že dynamika mikrozonátorov na báze cínových whiskerov (whisker = doslova fúzík, tenký filament pozn.) študovaná v oboch doménach môže byť opísaná fenomenologickou teóriou Duffingovho rezonátora. Navyše, prezentované výsledky teoretickej analýzy súhlasia s výsledkami získanými experimentálne.

8.) Supravodivá a magnetokalorická keramika (*Superconducting and magnetocaloric ceramics*)

Zodpovedný riešiteľ: Pavel Diko
Trvanie projektu: 1.1.2016 / 31.12.2018
Evidenčné číslo projektu: VEGA 2/0121/16
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských inštitúcií: 5 - Veľká Británia: 1, Čína: 1, Japonsko: 2, Kórejská republika: 1
Čerpané financie: -

Dosiahnuté výsledky:

1. Volochová, D., Antal, V., Piovarči, S., Kavečanský, V., Diko, P., REBCO bulk superconductors doped with Sm or Al, High-Temperature Superconductors: Occurrence, Synthesis and Applications, 1 January 2018, Pages 1-32. ISBN: 978-153613342-4;978-153613341-7, Publisher: Nova Science Publishers, Inc.
2. Diko, P., Piovarči, S., Antal, V., Kaňuchová, M., Volochová, D., Corrosion of YBCO bulk superconductor in air, Journal of the American Ceramic Society, 2018, 101(8), pp. 3703-3709, IF 2,956
3. Vojtkova, L., Diko, P., Kovac, J., Vojtko, M. Influence of Sm₂O₃ microalloying and Yb contamination on Y211 particles coarsening and superconducting properties of IG YBCO bulk superconductors, Superconductor Science and Technology 31(6),2018, 065003. IF 2.861
4. Antal, V., Kavečanský, V., Volochová, D., Diko, P., Thermal reactivity of YBa₂Cu₃O_{7-?} with Al₂O₃ addition in air atmosphere, Ceramics International, 45 (2019) 2866 – 2875, IF 3.057
5. Vojtkova, L., Diko, P., Rajnak, M., Influence of Sm₂O₃ and La₂O₃ Additions on the Microstructure and Properties of YBCO Bulk Superconductors Prepared by TSIG Process, IEEE Transactions on Applied Superconductivity, 28(4), 2018, 6801804. IF 1.288
6. Volochová, D., Diko, P., Antal, V., Vojtkova, L., Kováč, J., Influence of Gd Addition on the Microstructure and Superconducting Properties of YBCO Bulk Superconductors, IEEE Transactions on Applied Superconductivity, 28(4),2018, 8295135. IF 1.288
7. Hajdova, P., Rajnak, M., Antal, V., Vojtkova, L., Diko, P., Change of Superconducting Properties of Single-Grain Sm-Ba-Cu-O Bulk by Sm/Ba Substitution Effect, IEEE Transactions on Applied Superconductivity, 28(4),2018, 7200204. IF 1.288
8. Radusovska, M., Vojtkova, L., Piovarci, S., Rajnak, M., Diko, P., Influence of Sm Doping on YBCO Bulks in YBa₂Cu₃O_{7-?}/Y₂BaCuO₅ System, IEEE Transactions on Applied Superconductivity, 28(4),2018, 6800904. IF 1.288

9.) Systematické štúdium vplyvu lokálnych a nelokálnych interakcií na koexistenciu kvantových fáz s rôznymi parametrami usporiadania (*Systematic study of influence of local and nonlocal interactions on coexistence of quantum phases with different order parameters*)

Zodpovedný riešiteľ:	Pavol Farkašovský
Trvanie projektu:	1.1.2018 / 31.12.2021
Evidenčné číslo projektu:	2/0112/18
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	-

Dosiahnuté výsledky:

1. P. FARKAŠOVSKÝ, Effects of geometrical frustration on ferromagnetism in the Hubbard model on the generalised Shastry-Sutherland lattice, The European Physical Journal B 91 (2018) 74.
2. P. FARKAŠOVSKÝ, Pressure induced valence and metal-insulator transitions in the Falicov-Kimball model with nonlocal hybridization, Solid State Communications 287 (2019) 68-71.

10.) Nadmolekulárne komplexy proteínov - konformačné prechody, stabilita a agregácia (*Supramolecular complexes of proteins – conformational transitions, stability and aggregation*)

Zodpovedný riešiteľ: Diana Fedunová
Trvanie projektu: 1.1.2018 / 31.12.2021
Evidenčné číslo projektu: 2/0030/18
Organizácia je áno
koordinátorom projektu:
Koordinátor: Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 4001 €

Dosiahnuté výsledky:

Študovali sme vplyv imidazolových hydrofóbných a hydrofilných iónových kvapalín (ILs) na kinetiku amyloidnej agregácie natívne rozbaleného A β 40 peptidu a globulárnych proteínov lysozýmu a inzulínu. Zistili sme, že v prítomnosti hydrofóbných ILs dochádza k urýchleniu tvorby amyloidných fibríl a β 40 peptidu v dôsledku zosilnenej asociácie hydrofóbných povrchov. V prípade lysozýmu a inzulínu zosilnené interakcie hydrofóbných jadier čiastočne rozbalených povrchov podmieňujú tvorbu amorfných agregátov. V prípade hydrofilných ILs závisel efekt ILs od pozície aniónu v Hofmeisterovej sérii, koncentrácie a typu proteínu. Lag fáza a rýchlosť tvorby fibríl a β 40 peptidu narastala s nárastom kozmotropicity aniónu, v prípade lysozýmu bol efekt opačný. Kinetika fibrilizácie inzulínu bola tiež urýchlená v študovaných hydrofilných ILs, avšak lag fáza a rýchlosť polymerizácie nezáviseli od typu použitých ILs v študovanej koncentrácii. Z uvedených výsledkov vyplýva, že vplyv ILs na tvorbu amyloidných agregátov je podmienený predovšetkým špecifickými interakciami komponentov ILs s polypeptidovým reťazcom.

V ďalšej práci sme študovali vplyv magnetických nanočastíc modifikovaných polymérmi na báze dextransu na amyloidnú agregáciu inzulínu. Zistili sme, že tieto nanočastice sú schopné redukovať tvorbu amyloidných agregátov, ich inhibičná aktivita závisí od koncentrácie nanočastíc a ich veľkosti.

V ďalšej práci sme sa zaoberali oligomerizáciou azo farbív a ich interakciami s albumínom pri rôznej koncentrácii solí. Zistili sme, že viazanie Evans blue a Congo red je dvojfázový proces odpovedajúci viazaniu do dvoch väzobných miest, pričom dochádza k viazaniu oligomérneho komplexu farbiva na jedno väzobné miesto.

1. Lu N. H., How S. C., Chien Y., Tsai S. L., Bednarikova Z., Fedunova D., Gazova Z., Wu J. W. R., Wang S. S. S.: Examining the effects of dextran-based polymer-coated nanoparticles on amyloid fibrillogenesis of human insulin. *Colloids and Surfaces B – Biointerfaces* 172 (2018) 674-683.

2. Fedunova D., Vanik V., Bednarikova Z., Antosova A., Gazova Z.: The effect of ionic liquids on poly/peptide fibrillization. 4th NGP-NET Symposium on Non-Globular proteins, September 12 – 14, 2018, Druskininkai, Lithuania, Book of Abstracts, pp. 67.

3. Vanik V., Gazova Z., Kovac A., Majerova P., Skrabana R., Lousa P., Hritz J., Fedunova D.: Studies on the azo dyes aggregation and their binding to albumin. 8th Slovak Biophysical Symposium, May 30 – June 1, 2018, Kosice, Slovakia, Book of Contributions, PO21, pp. 81 – 82.

4. Bednarikova Z., Gancar M., Ulicna K., Fedunova D., Wang S. S. S., Wu J. W. R., Wang R., Tang Y., Ma L., Zheng B. B., Gazova Z.: Effect of natural and synthetic small molecules on aggregation of globular proteins. 8th Slovak Biophysical Symposium, May 30 – June 1, 2018, Kosice, Slovakia, Book of Contributions, PL2, pp. 22.

11.) Vplyv extrémnych podmienok na silne korelované elektrónové systémy. (*Influence of extreme conditions on strongly correlated electron systems*)

Zodpovedný riešiteľ: Slavomír Gabáni
Trvanie projektu: 1.7.2016 / 31.12.2019
Evidenčné číslo projektu: 2/0032/16
Organizácia je áno
koordinátorom projektu:
Koordinátor: Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských 0
inštitúcií:
Čerpané financie: VEGA SAV: 11259 €

Dosiahnuté výsledky:

- [1] P. Hlawenka, K. Siemensmeyer, E. Weschke, A. Varykhalov, J. Sánchez-Barriga, N.Y. Shitsevalova, A.V. Dukhnenko, V.B. Filipov, S. Gabáni, K. Flachbart, O. Rader, E.D.L. Rienks: Samarium hexaboride is a trivial surface conductor. *Nature Communications* 9, 517 (2018)
- [2] N. Emi, N. Kawamura, M. Mizumaki, T. Koyama, N., Ishimatsu, G. Pristáš, T. Kagayama, K. Shimizu, Y. Osanai, F. Iga, T. Mito: Kondo-like behavior near the magnetic instability in SmB₆: Temperature and pressure dependences of the Sm valence. *Physical Review B* 97, 161116(R) (2018)
- [3] Mat. Orendáč, S. Gabáni, E. Gažo, G. Pristáš, N. Shitsevalova, K. Siemensmeyer, K. Flachbart: Rotating magnetocaloric effect and unusual magnetic features in metallic strongly anisotropic geometrically frustrated TmB₄. *Scientific Reports* 8, 10933 (2018)
- [4] G. Pristáš, Mat. Orendáč, S. Gabáni, J. Kačmarčík, E. Gažo, Z. Pribulová, A. Correa-Orellana, E. Herrera, H. Suderow, P. Samuely: Pressure effect on the superconducting and the normal state of β -Bi₂Pd. *Physical Review B* 97, 134505 (2018)
- [5] N.E. Sluchanko, A.L. Khoroshilov, A.V. Bogach, S.Yu. Gavrilkin, V.V. Glushkov, S.V. Demishev, V.N. Krasnorussky, N.Yu. Shitsevalova, V.B. Filipov, S. Gabani, K. Flachbart, B.Z. Malkin: Magnetic anisotropy of the low-temperature specific heat of Ho_{0.01}Lu_{0.99}B₁₂ with dynamic charge stripes. *Journal of Experimental and Theoretical Physics Letters* 108, 454-459 (2018)
- [6] N.E. Sluchanko, A.P. Dudka, O.N. Khrikina, N.B. Bolotina, A.N. Azarevich, A.V. Bogach, S.Yu. Gavrilkin, S.V. Demishev, A.V. Dukhnenko, N.Yu. Shitsevalova, V.B. Filipov, S. Gabani, K. Flachbart: Osobenosti kristalicheskoi strukturi v okrestnosti kvantovoi kriticheskoi tochki i pri perechode metal-izoljator v dodekaboridach Tm_{1-x}Yb_xB₁₂. *Journal of Experimental and Theoretical Physics Letters* 108, 715-720, (2018)

12.) Samousporiadanie poly/peptidov do amyloidných agregátov - mechanizmus, inhibícia a cytotoxicita (*Self-assembly of poly/peptides into amyloid aggregates – mechanism, inhibition and cytotoxicity*)

Zodpovedný riešiteľ: Zuzana Gažová
Trvanie projektu: 1.1.2017 / 31.12.2020
Evidenčné číslo projektu: 2/0145/17
Organizácia je áno
koordinátorom projektu:
Koordinátor: Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských 0
inštitúcií:
Čerpané financie: -

Dosiahnuté výsledky:

Tvorba proteínových amyloidných agregátov je spojená s viac ako 50 nevyliciteľnými ochoreniami, ako Alzheimerova choroba alebo diabetes mellitus. Zistili sme, že cytotoxicita amyloidných

agregátov koreluje so stupňom agregácie proteínu. Zamerali sme sa na hľadanie účinných liečiv amyloidných ochorení pomocou rôznych in vitro a in silico metód. Testovali sme účinok viacerých látok nielen na amyloidnú agregáciu proteínov ($A\beta$, lyzozým, inzulín), ale aj na iné proteíny (BACE-1, receptory γ -PPAR a RXRs). Zistili sme, že malé molekuly metylénová modrá, kurkumínové deriváty, CID 9998128 a takrín/akridón-kumarínové heterodiméry a tiež dextránom modifikované maghemitové nanočastice sú látky s významným potenciálom pre liečbu ochorení spojených s amyloidnou agregáciou proteínov.

[1] PHAM, H. D. Q.- THAI, N. Q.- BEDNARIKOVA, Z.- LINH, H. Q.- GAZOVA, Z. - LI, M. S. Bexarotene cannot reduce amyloid beta plaques through inhibition of production of amyloid beta peptides: in silico and in vitro study. In: Phys.Chem.Chem.Phys., 2018, vol. 20, pp. 24329-24338. (IF 3.906, Q1, 92 %)

[2] ULICNA, K.- BEDNARIKOVA, Z.- HSU, W.-T. HOLZTRAGEROVA, M.- WU, J. W.- HAMULAKOVA, S.- WANG, S. S.-S.- GAZOVA, Z. Lysozyme amyloid fibrillization in presence of tacrine/acridone-coumarin heterodimers. Colloids and Surfaces B: Biointerfaces, 2018, vol. 166, pp. 108–118. (IF 3.997, Q1, 88%)

[3] LU, N.-H.-HOW, S.-CH., LIN, CH.-Y., TSAI, S.-L., BEDNARIKOVA, Z.- FEDUNOVA, D. - GAZOVA, Z.- WU, W. J.- WANG, S. S.-S. Examining the effects of dextran-based polymer-coated nanoparticles on amyloid fibrillogenesis of human insulin. In: Colloids and Surfaces B: Biointerfaces, 2018, vol. 172, pp. 674-683. (IF 3.997, Q1, 88%)

[4] BYSTRENOVA, E. - BEDNARIKOVA, Z.- BARBALINARDO, M. -VALLE, F.- GAZOVA, Z. - BISCARINI, F. Insulin amyloid structures and their influence on neural cells. In: Colloids and Surfaces B: Biointerfaces, 2018, vol. 161, pp. 177–182. (IF 3.997, Q1, 88 %)

[5] THAI, N. Q.- BEDNARIKOVA, Z.- GANCAR, M.- LINH, H. Q.- HU, CH.-K. - LI, M. S. - GAZOVA, Z. Compound CID 9998128 Is a Potential Multitarget Drug for Alzheimer's Disease. ACS Chem. Neurosci., 2018, vol. 9, pp. 2588-2598. (IF 4.211, Q1, 85 %)

[6] HOW, S. - CH.- CHENG, Y.-H.- , CH.-H.-LAI, J.-T.-LIN, T.-H.- BEDNARIKOVA, Z.- ANTOSOVA, A.- GAZOVA, Z.- WU, J. W.- WANG, S. S.-S. Exploring the effects of methylene blue on amyloid fibrillogenesis of lysozyme. In: International Journal of Biological Macromolecules, 2018, vol. 119, pp. 1059-1067. (IF 3.909, Q1, 84%)

[7] ORTECA, G. - TAVANTI, F. - BEDNARIKOVA, Z. - GAZOVA, Z. - RIGILLO, G. - IMBRIANO, C. - BASILE, V. - ASTI, M.-RIGAMONTI, L. - SALADINI, M. -FERRARI, E. - MENZIANI, C. Curcumin derivatives and $A\beta$ -fibrillar aggregates: An interactions' study for diagnostic/therapeutic purposes in neurodegenerative diseases. In: Bioorganic & Medicinal Chemistry, 2018, vol. 26, pp. 4288-4300. (IF 2.881, Q1, 81%)

13.) Štúdium univerzálnych vlastností difúzných procesov v turbulentných prostrediach (*Study of universal properties of diffusion processes in turbulent environments*)

Zodpovedný riešiteľ:	Marián Jurčišin
Trvanie projektu:	1.1.2017 / 31.12.2020
Evidenčné číslo projektu:	VEGA SAV 2/0065/17
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	-

Dosiahnuté výsledky:

- [1] E. Jurčišinová and M. Jurčišin, Highly macroscopically degenerated single-point ground states as source of specific heat capacity anomalies in magnetic frustrated systems. In: J. Magnet. Magnet. Mater. 451 (2018) 137-142.
- [2] E. Jurčišinová and M. Jurčišin, Antiferromagnetic geometric frustration under the Influence of the next-nearest-neighbor interaction. An exactly solvable model. In: Physica A 492 (2018) 1798-1822.
- [3] A. Bobák, E. Jurčišinová, M. Jurčišin, and M. Žukovič, Frustrated spin-1/2 Ising antiferromagnet on a square lattice in a transverse field. In: Phys. Rev. E 97 (2018) 022124 (7 pages)
- [4] E. Jurčišinová and M. Jurčišin, Multipeak low-temperature behavior of specific heat capacity in frustrated magnetic systems. In: Phys. Rev. E 97 (2018) 052129 (16 pages)
- [5] E. Jurčišinová, M. Jurčišin, and M. Menkyna, Anomalous scaling in the Kazantsev-Kraichnan model with finite time correlations: two-loop renormalization group analysis of relevant composite operators. In: Eur. Phys. J. B (2018) 91: 313 (23 pages)

14.) Komplementárne štúdium supravodivosti vybraných materiálov (*Complementary study of superconductivity of selected materials*)

Zodpovedný riešiteľ: Jozef Kačmarčík
Trvanie projektu: 1.1.2016 / 31.12.2019
Evidenčné číslo projektu: 2/0149/16
Organizácia je áno
koordinátorom projektu:
Koordinátor: Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských inštitúcií: 3 - Belgicko: 1, Nemecko: 0, Francúzsko: 2
Čerpané financie: -

Dosiahnuté výsledky:

- [1] Y. Fasano, P. Szabó, J. Kačmarčík, Z. Pribulová, P. Pedrazzini, P. Samuely, V.F. Correa: Unconventional superconductivity in the strong-coupling limit for the heavy fermion system CeCoIn₅. In: Physica B 536 (2018) 798.
- [2] G. Pristáš, Mat. Orendáč, S. Gabáni, J. Kačmarčík, E. Gažo, Z. Pribulová, A. Correa-Orellana, E. Herrera, H. Suderow, and P. Samuely - Pressure effect on the superconducting and the normal state of β -Bi₂Pd. In: Phys. Rev. B 97 (2018) 134505.
- [3] V. Hašková, M. Kopčík, P. Szabó, T. Samuely, J. Kačmarčík, O. Onufrienko, M. Žemlička, P. Neilinger, M. Grajcar, P. Samuely: On the origin of in-gap states in homogeneously disordered ultrathin films. MoC case. In: Applied Surface Science 461 (2018) 143.
- [4] M. Gregor, R. Sobota, T. Plecenik, T. Rocha, L. Satrapinsky, J. Kacmarcik, V. Girman, P. Svec, P. Kus, A. Plecenik: Enhancement of superconducting properties of MgB₂ thin films by using oxygen annealing atmosphere. In: Applied Surface Science 461 (2018) 124.
- [5] M.M. Markina, B.V. Mill, G. Pristáš, M. Marcin, S.A. Klimin, K.N. Boldyrev, M.N. Popov: La₃CrGe₃Be₂O₁₄ and Nd₃CrGe₃Be₂O₁₄: New magnetic compounds of the langasite family. In: Journal of Alloys and Compounds 779 (2019) 380.

15.) Magnetizačné a relaxačné procesy v magnetických časticiach a kompozitoch. (*Magnetization and relaxation processes in magnetic particles and composites.*)

Zodpovedný riešiteľ: Jozef Kováč
Trvanie projektu: 1.1.2016 / 31.12.2019
Evidenčné číslo projektu: 1/0377/16
Organizácia je koordinátorom projektu: nie
Koordinátor: Prírodovedecká fakulta UPJŠ, Košice
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

ZELEŇÁKOVÁ, Adriana - HRUBOVČÁK, Pavol - ZELEŇÁK, Vladimír - KOVÁČ, Jozef. Effect of 1D Ordering on Magnetic Properties of Iron Nanoparticles coated by Silica Shell. In Acta Physica Polonica A, 2018, vol. 133, no. 3, p. 561-563. (0.857 - IF2017)

VARGA, Lajos K. - KOVÁČ, Jozef. Decomposing the permeability spectra of nanocrystalline finemet core. In AIP Advances, 2018, vol. 8, no. 4, art. no. 047205. (1.653 - IF2017)

KOVÁČ, Jozef - NOVÁK, Ladislav - KECER, J. Hydrogenation caused reversible structural changes in FeCrB type metallic glasses monitored by magnetization parameters. In Journal of Alloys and Compounds, 2018, vol. 735, p. 1591-1595. (3.779 - IF2017)

16.) Rýchlochladené amorfné a Heuslerove zliatiny s význačnými vlastnosťami. Príprava a charakterizácia. (*Rapidly quenched amorphous and Heusler alloys with unique properties. Production and characterization.*)

Zodpovedný riešiteľ: Jozef Kováč
Trvanie projektu: 1.1.2016 / 31.12.2018
Evidenčné číslo projektu: 1/0164/16
Organizácia je koordinátorom projektu: nie
Koordinátor: Prírodovedecká fakulta UPJŠ, Košice
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

GEBARA, Piotr - KOVÁČ, Jozef. The influence of partial substitution of La by Dy on structure and thermomagnetic properties of the LaFe_{11.0}Co_{0.7}Si_{1.3} alloy. In Journal of Magnetism and Magnetic Materials, 2018, vol. 454, p. 298-303. (3.046 - IF2017). (2018 - Current Contents, WOS, SCOPUS). ISSN 0304-8853.

VARGA, Lajos K. - KOVÁČ, Jozef. Decomposing the permeability spectra of nanocrystalline finemet core. In AIP Advances, 2018, vol. 8, no. 4, art. no. 047205. (1.653 - IF2017). (2018 - Current Contents, WOS, SCOPUS). ISSN 2158-3226.(SMM 2017 : Soft Magnetic Materials Conference).

KOVÁČ, Jozef - NOVÁK, Ladislav - KECER, J. Hydrogenation caused reversible structural changes in FeCrB type metallic glasses monitored by magnetization parameters. In Journal of Alloys and Compounds, 2018, vol. 735, p. 1591-1595. (3.779 - IF2017). (2018 - Current Contents, WOS, SCOPUS). ISSN 0925-8388.

17.) Vplyv extrémnych podmienok (magnetické pole, tlak, teplota) na neobvyklé chovanie

základného stavu a fázové prechody v korelovaných látkach (*Effect of extreme environment (magnetic field, pressure, temperature) on the anomalous behavior of the ground state and phase transitions in strongly correlated materials.*)

Zodpovedný riešiteľ: Matúš Mihálik
Trvanie projektu: 1.1.2016 / 31.12.2018
Evidenčné číslo projektu: 2/0010/16
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

18.) Oxidačný stres a fosfolipidovo-proteínové interakcie: funkčné a štrukturálne dôsledky (*Functional and Structural Insights into the Phospholipid-Protein Interaction during Oxidative Stress*)

Zodpovedný riešiteľ: Andrey Musatov
Trvanie projektu: 1.1.2017 / 31.12.2020
Evidenčné číslo projektu: 2/0009/17
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: VEGA: 3877 €

Dosiahnuté výsledky:

Naším dlhodobým cieľom je pochopiť mechanizmus, ktorým sú mitochondrie a mitochondriálny oxidačný stres zapojené do neurodegeneratívnych chorôb súvisiacich s vekom. V nadväznosti na prepojenie porúch mitochondrií, oxidačného stresu a neurodegeneratívnych ochorení sme skúmali peroxidázovú aktivitu cytochrómu c, ktorý je normálnou súčasťou dýchacieho reťazca, v závislosti od stúpajúcej koncentrácie urey. Cyt c vykazoval peroxidázovú aktivitu ak bol jeho hém v hexa-koordinovanom nízko-spinovom stave. Táto peroxidázová aktivita korelovala s dostupnosťou hémového železa; pričom dynamika v hémovej oblasti bola ovplyvnená pravdepodobne rozbalením 2-3 stabilných foldónov [1].

S cieľom získať čo najkomplexnejší obraz o procese amyloidnej agregácie sme študovali proces amyloidnej agregácie A β peptidu v prítomnosti feritínu, ktorý slúži ako zásoba železa v živých organizmoch. Zistili sme, že interakcia A β peptidu (súvis s Alzheimerovou chorobou) s proteínom feritínom môže viesť k redukcii železa. Naše pozorovanie môže čiastočne vysvetliť tvorbu minerálov obsahujúcich Fe(II) v mozgu pacientov trpiacich neurodegeneratívnymi ochoreniami [2].

[1] Tomášková, N., Varhač, R., Lysáková, V., Musatov, A., Sedlák, E. Peroxidase activity of cytochrome c in its compact state depends on dynamics of the heme region. In: Biochim Biophys Acta-Proteins and Proteomics (2018), 1866, 1073-1083

[2] L. Balejíková, K. Šipošová, P. Kopčanský, I. Šafařík. Fe(II) formation after interaction of the amyloid – β peptide with iron-storage protein ferritin. In: J Biol Phys (2018) 44:237–243

19.) Interakcie relativistických jadier; eta-mezónové jadrá a spinová fyzika (*Interactions of relativistic nuclei, eta-meson nuclei and spin physics*)

Zodpovedný riešiteľ: Ján Mušínský
Trvanie projektu: 1.1.2018 / 31.12.2020
Evidenčné číslo projektu: 1/0113/18
Organizácia je koordinátorom projektu: nie
Koordinátor: Prírodovedecká fakulta UPJŠ
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

20.) Skúmanie vlastností jadrovej matérie v produkcii ťažkých kvarkov na jadrových terčíkoch (*Skúmanie vlastností jadrovej matérie v produkcii ťažkých kvarkov na jadrových terčíkoch*)

Zodpovedný riešiteľ: Ján Nemčík
Trvanie projektu: 1.1.2018 / 31.12.2021
Evidenčné číslo projektu:
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 1251 €

Dosiahnuté výsledky:

1. Jan Nemcik, "Novel mechanism for suppression of heavy flavored mesons in heavy ion collisions", plenary talk presented at the BEACH 2018 - XIII INTERNATIONAL CONFERENCE ON BEAUTY, CHARM AND HYPERON HADRONS; 17 to 23 of June 2018 - Peniche, Portugal. Book of Abstracts p.18; Will be published in IOP Conference Series (will appear in WoS).

2. Jan Nemcik, "Universal suppression in production of different high-pT hadrons in heavy ion collisions", plenary talk presented at the International conference Diffraction and Low-x 2018, 26 August 2018 to 1 September 2018, Reggio Calabria, Italy. Will be published in Acta Physica Polonica B Proceeding Supplement; (will appear in WoS).

3. J. Cepila, J. Nemcik, M. Krelina, R. Pasechnik, "Theoretical uncertainties in exclusive electroproduction S-wave heavy quarkonia", e-Print: arXiv:1901.02664 [hep-ph], zaslané do Physical Review D

21.) Štúdium supravodivých nanoštruktúr a nanovrstiev (*Study of superconducting nanostructures and nanolayers*)

Zodpovedný riešiteľ: Peter Samuely

Trvanie projektu: 1.1.2015 / 31.12.2018
Evidenčné číslo projektu: 1/0409/15
Organizácia je koordinátorom projektu: nie
Koordinátor: Univerzita P.J. Šafárika, Prírodovedecká fakulta
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

22.) Mezoškálové javy a štruktúry v mäkkých látkach polymérneho a nepolymérneho charakteru

Zodpovedný riešiteľ: Marián Sedlák
Trvanie projektu: 1.1.2017 / 31.12.2019
Evidenčné číslo projektu: 2/0177/17
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

Projekt je venovaný výskumu mezoškálových javov a štruktúr v mäkkých látkach polymérneho a nepolymérneho charakteru. Tento výskum má dve roviny: rovinu základného výskumu a rovinu aplikácií. V rámci výsledkov aplikačnej časti nám bol Úradom priemyselného vlastníctva SR udelený patent týkajúci sa spôsobu merania obsahu alkánov v alkoholoch metódou mezoškálovej segregácie vo vodných roztokoch (1). Komparatívnou výhodou oproti iným metódam je vysoká citlivosť a finančná nenáročnosť tak z hľadiska nízkej ceny meracieho zariadenia ako aj z hľadiska nenáročnej obsluhy bez potreby vysoko špecializovanej obsluhy.

(1) M. Sedlák, D. Rak: Spôsob merania obsahu alkánov v alkoholoch metódou nanosegregácie vo vodných roztokoch, ÚPV SR, patent č. 288560. Udelený 16.3. 2018. Dátum sprístupnenia patentu verejnosti 7.5.2018.

23.) Vývoj nových postupov pre rekonštrukciu a analýzu dát z protón-protónových zrážok na urýchľovači LHC (*Development of new procedures for the reconstruction and analysis of the data from the proton-proton collisions at the LHC*)

Zodpovedný riešiteľ: Pavol Stríženec
Trvanie projektu: 1.1.2016 / 31.12.2019
Evidenčné číslo projektu: 2/0174/16
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 4023 €

Dosiahnuté výsledky:

V roku 2018 urýchľovač LHC úspešne pokračoval v naberaní štatistiky pri rekordnej energii pp zrážok 13TeV, s luminozitou prevyšujúcou plánované hodnoty. Naďalej bola konfigurácia protónových bunchov nevýhodná pre kalorimeter, a menila sa počas roka, takže sa metodická a softwarová časť projektu sústredila na udržanie presnosti kalibračných a rekonštrukčných procedúr aj pri takejto konfigurácii protónového zväzku. Našej skupine sa podarilo udržať kvalitu dát meraných LAr kalorimetrom, vyše 99.8% dát je vhodných na fyzikálnu analýzu.

Pokračovali sme v analýze spinových parametrov top-antitop párov.

Úspešne sme prevádzkovali a čiastočne obnovili GRID farmu na ústave a spoľahlivo spočítali veľa úloh pre kolaboráciu ATLAS.

Výsledky práce sú týmto zahrnuté v mnohých publikáciách, ktoré kolaborácia ATLAS publikovala minulý rok, vo väčšine publikácií v karentovaných časopisoch (viď zoznam publikácií vo výročnej správe ÚEF SAV), ako aj v mnohých preprintoch a interných nótach kolaborácie ATLAS, ktorých zoznam pre jeho dĺžku neuvádzame.

24.) Rýchlochladené magneticky mäkké a magneticky tvrdé kompozitné materiály pre aplikácie v energetike a senzorike. (*Rapidly quenched soft and hard magnetic composites for energy and sensor applications.*)

Zodpovedný riešiteľ:	Ivan Škorvánek
Trvanie projektu:	1.1.2016 / 31.12.2018
Evidenčné číslo projektu:	2/0173/16
Organizácia je	áno
koordinátorom projektu:	
Koordinátor:	Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských	0
inštitúcií:	
Čerpané financie:	-

Dosiahnuté výsledky:

V práci [1].sme sa zamerali na netradičnú metódu ovplyvňovania GMI odozvy v rýchlochladených nanokryštalických materiáloch, ktorá spočíva v nanosení dodatočnej tenkej vrstvy feromagnetického kovu na ich povrch. Konkrétne sa jednalo o rýchlochladené nanokryštalické kovové pásy na báze Fe-Ni-Nb-B, na povrch ktorých bola nanosená tenká vrstva kryštalického kobaltu s hrúbkou 120 nm. Cieľom týchto experimentov bolo zvýšenie citlivosti GMI senzorových charakteristík na malé zmeny okolitého magnetického poľa. Výsledky našich meraní ukázali že najmä v oblasti nižších frekvencií (okolo 100 MHz). Sú nízkopolečné zmeny GMI efektu po nanosení Co-vrstvy podstatne vyššie oproti pôvodnej vzorke bez Co-povlaku. Pozorované zlepšenie GMI senzorových charakteristík je pripisované zvýšeniu transversálnej zložky magnetickej permeability, ku ktorému došlo v dôsledku indukovaných mechanických napätí po nanosení tenkej Co vrstvy na Fe-Ni-Nb-B pásku s kladnou magnetostrikciou.

Pri štúdiu magneticky tvrdých kompozitných materiálov sme sa zamerali na zliatiny na báze MnAl a MnBi. Prípravu predzliatiny, jej rýchle ochladenie a následné tepelné spracovanie sme realizovali na základe výsledkov štruktúrnej a kinetickej analýzy a in-situ rtg. difrakcie. Naším cieľom bolo maximalizovať množstvo magneticky tvrdej tau-MnAl fázy v zliatinách na báze MnAl a nízkoteplotnej alfa-MnBi fázy v zliatinách na báze MnBi za účelom čo najväčšieho zvýšenia ich hodnoty maximálneho energetického produktu (BH)_{max}, čo je kľúčová veličina na porovnávanie kvality permanentných magnetov. Najlepšie výsledky boli dosiahnuté pre zliatinu MnAl, žíhanú pri 440°C 1 hodinu, kde (BH)_{max} dosiahol hodnotu približne 1 MGOe. Aplikácia externého magnetického poľa s intenzitou 14 T počas tepelného spracovania pri rovnakej teplote nevedla

dalšiemu nárastu jej $(BH)_{\max}$ [2].

Pri štúdiu magnetických materiálov na báze La-Fe-Co-Si sme sa zamerali na cielené ovplyvňovanie ich magnetokalorických charakteristík pomocou malých zmien v chemickom zložení. Konkrétne sa jednalo o čiastočnú substitúciu atómov lantanu atómami dysprózia. Substitúcia malého množstva Dy viedla k poklesu hodnôt Curieho teploty. Detailná analýza charakteru magnetického fázového prechodu pomocou kombinácie teoretických a fenomenologických modelov ukázala, že substitúcia atómov La atómami Dy nevedie k zmene typu fázového prechodu v blízkosti Curieho teploty [3].

V systémoch rýchlochladených magneticky mäkkých zliatin na báze FeB a FeCrB bol sledovaný vplyv hydrogenizácie a následnej dehydrogenizácie na ich štruktúrne a magneticky mäkké charakteristiky. Výsledky experimentov ukázali, že štruktúrne zmeny v procese hydrogenizácie/dehydrogenizácie majú reverzibilný charakter. Podrobná modelová analýza zmien koercitívneho poľa pomocou Kondorského modelu umožnila získať informácie o efektívnej magnetickej anizotropii, mikroskopických vnútorných napätiach a šírke doménových stien v študovaných zliatinách. Teoretické modelovanie bolo použité aj pri dekompozícii frekvenčných spektier magnetickej permeability v rýchlochladených nanokryštalických FINEMET zliatinách umožnilo získať bližšie informácie o efektoch vírivých prúdov v týchto materiáloch [4, 5].

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[2] JANOTOVÁ, Irena - ŠVEC, Peter - ŠVEC, Peter Jr. - MAŤKO, Igor - JANIČKOVIČ, Dušan - KUNCA, Branislav - MARCIN, Jozef - ŠKORVÁNEK, Ivan. Formation of magnetic phases in rapidly quenched Mn-based systems. In Journal of Alloys and Compounds, 2018, vol. 749, p. 128 - 133. (3.779 - IF2017). (2018 - Current Contents, WOS, SCOPUS). ISSN 0925-8388. Q1

[3] GEBARA, Piotr - KOVAC, Jozef, The influence of partial substitution of La by Dy on structure and thermomagnetic properties of the LaFe₁₁0Co_{0.7}Si_{1.3} alloy, Journal of Magnetism and Magnetic Materials, 2018, Vol.: 454 p.: 298-303. (3.046 - IF2017). Q1

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[5] VARGA, Lajos K. - KOVÁČ, Jozef. Decomposing the permeability spectra of nanocrystalline finemet core. In AIP Advances, 2018, vol. 8, no. 4, art. no. 047205. (1.653 - IF2017). (2018 - Current Contents, WOS, SCOPUS). ISSN 2158-3226.(SMM 2017 : Soft Magnetic Materials Conference). Q2

25.) Interakcia magnetických kvapalín s elektromagnetickým poľom (*Interaction of magnetic fluids with electromagnetic field*)

Zodpovedný riešiteľ:	Milan Timko
Trvanie projektu:	1.1.2016 / 31.12.2019
Evidenčné číslo projektu:	2/0141/16
Organizácia je	áno
koordinátorom projektu:	
Koordinátor:	Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských	0
inštitúcií:	
Čerpané financie:	-

Dosiahnuté výsledky:

Efektivita ultrazvukovej hypertermie pre liečenie nádorových ochorení môže byť vylepšená použitím ultrazvukového senzibilizátora, čo je materiál na zvýšenie pohlcovania a disipácie akustickej energie. Navrhli sme preto využitie magnetických nanočastíc, keďže sú biokompatibilné, netoxické a sú používané aj v mnohých iných biomedicínskych aplikáciách. Pripravené nanočastice boli formou magnetickej kvapaliny inkorporované agarového fantómu. Ultrazvuková hypertermia bola študovaná pri rôznych frekvenciách ultrazvuku a koncentrácii magnetických nanočastíc nachádzajúcich sa vo fantóme [1]. Teoretický model založený na rovnici prenosu tepla a experimentálnych výsledkov ukázali na dobrú zhodu a potvrdili nárast teploty počas ultrazvukového ohrevu, ktorá bola vyššia ako u čistého agaru. Pre liečenie nádoru, ktorý obsahuje magnetické nanočastice, informácie získané z teoretického predpokladu by mohli byť prospešné pre kompletnú deštrukciu nádoru pri minimálnom poškodení zdravého okolitého tkaniva. Získané výsledky z ultrazvukového ohrevu, ktorého efekt bol zvýšený magnetickými nanočasticami otvárajú nové perspektívy pre aplikácie kombinovaných metód hypertermie v klinickej praxi [2].

V oblasti štúdia elektrickej pevnosti magnetických kvapalín bola naša pozornosť orientovaná na vplyv urýchlenného tepelného starnutia. Skúmali sme magnetickej kvapaliny s tromi rôznymi koncentráciami nanočastíc oxidov železa. Zistilo sa, že tepelné starnutie po dobu 600 hodín má za následok výraznú destabilizáciu magnetickej kvapaliny. S týmto nepriaznivým javom súvisí aj výrazný pokles preskokového napätia a magnetickej susceptibility [3]. Vplyv koncentrácie nanočastíc na elektrickú vodivosť magnetickej kvapaliny na báze transformátorového oleja sme demonštrovali v [4]. Prostredníctvom nameraných prúdovo-napäťových charakteristík boli analyzované vodivostné mechanizmy. Na základe zaznamenananej hysterézie v I-V charakteristikách bolo uvažované o štruktúrnych zmenách v magnetickej kvapaline v dôsledku pôsobenia elektrického a magnetického poľa. Okrem transformátorového oleja dopovaného sférickými nanočasticami sme skúmali aj vplyv tyčinkovitých nanočastíc getitu [5]. Ukázalo sa, že prítomnosť týchto nanočastíc zlepšuje DC elektrickú pevnosť transformátorového oleja, zatiaľ čo AC elektrická pevnosť zostáva neovplyvnená. Pri vysvetľovaní zlej elektrickej pevnosti sme sa opierali o známy model vychytávania voľného náboja na špičkách tyčinkovitých nanočastíc. Popri oxidoch železa sme skúmali aj interakciu Cu_2SnS_3 mletých častíc s elektrickým poľom prostredníctvom merania impedancie [6]. Metódou merania elektrickej rezistivity sme poukázali na progres v chemickej reakcii uvedenej zlúčeniny v závislosti od času mletia. Magneto-reologické a tepelné vlastnosti magnetickej kvapaliny na báze transformátorového oleja sme demonštrovali v [7]. Rotačným reometrom v rozsahu šmykových rýchlostí od 1 do 1000 1/s sme potvrdili magneto-reologický jav v poli do 1 T. Analyzátorom tepelných charakteristík sme dokázali, že dopovanie transformátorového oleja magnetickými nanočasticami do troch hmotnostných percent má za následok zvýšenie jeho tepelnej vodivosti o 3.2 %. V ďalšej štúdii sme poukázali na vplyv elektrického poľa a vyvolaného elektrického prúdu v magnetickej kvapaline na jej magnetickú susceptibilitu [8]. Analýzou spektier komplexnej susceptibility sme dospeli k záveru, že elektrické pole spôsobuje v magnetickej kvapline také štruktúrne zmeny, ktoré vedú k redukcii celkového magnetického momentu a zníženiu magnetickej susceptibility. Štruktúrne zmeny v kvapke magnetickej kvapaliny pod vplyvom externého elektrického poľa boli potvrdené aj optickým pozorovaním [9]. Bola vykonaná analýza zaznamenaného obrazu deformácie kvapky v závislosti od elektrického poľa. Nakoniec, interakcia magnetickej kvapaliny s radio-frekvenčným magnetickým poľom bola študovaná v [10]. V tejto práci sme prezentovali metódu určenia efektívnosti tienenia magnetickej kvapalinou v oblasti elektromagnetického poľa od 500 MHz do 3 GHz. Tiež sme poukázali na vplyv koncentrácie nanočastíc na tieniace vlastnosti magnetickej kvapaliny. V príspevku [11] sú zhrnuté dosiahnuté výsledky v oblasti štúdia magnetických kvapalín a kompozitných systémov obsahujúcich magnetické nanočastice z hľadiska dielektrických, hypertermických a biomedicínskych vlastností.

[1] Heating Induced by Therapeutic Ultrasound in the Presence of Magnetic Nanoparticles
Kaczmarek, Katarzyna; Hornowski, Tomasz; Kubovcikova, Martina; Timko Milan, Koralewski Marcelli, Jozefczak Arkadiusz, ACS APPLIED MATERIALS & INTERFACES, Volume: 10, Issue:

14, Pages: 11554-11564

[2] Dependence of Ultrasonic and Magnetic Hyperthermia on the Concentration of Magnetic Nanoparticles - K. Kaczmarek, T. Hornowski, R. Bielas, D. Zak, M. Timko and A. Józefczak, ACTA PHYSICA POLONICA A No. 3 Vol. 133 (2018) p. 716

[3] Experimental study of AC breakdown strength in ferrofluid during thermal aging - J. Kurimský, M. Rajňák, P. Bartko, K. Paulovičová, R. Cimbala, D. Medved', M., Džamová, M. Timko, P. Kopčanský, Journal of Magnetism and Magnetic Materials (2018)

[4] Electrical conduction in a transformer oil-based magnetic nanofluid under a DC electric field - Rajnak, M ; Timko, M ; Kurimsky, J ; Dolnik, B ; Cimbala, R ; Tobias, T; Paulovicova, K ; Mariano, JFML (Morais Lopes Mariano, Jose Fernando); Kopcansky, P, In: JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS , Volume: 459, Pages: 191-196

[5] Dielectric Breakdown Study of a Nanofluid Based On Goethite Nanoparticles - T. Tobias, M. Rajnak, P. Kopcansky, M. Timko, F. Agresti, S. Barison, B. Dolnik, IEEE Transactions on Dielectrics and Electrical Insulation Vol. 25, No.

[6] Rapid mechanochemical synthesis of nanostructured 3D porous Cu₂SnS₃ (CTS) - Matej Balaz, Nina Daneu, Michal Rajňák, Juraj Kurimsky, Michal Hegedus, Erika Dutkova, Martin Fabian, Maria Kanuchova, and Peter Balaz, JOURNAL OF MATERIALS SCIENCE, Volume: 53, Issue: 19, 13631-13642

[7] Rheological and Thermal Transport Characteristics of a Transformer Oil Based Ferrofluid - Paulovicova, K; Tothova, J; Wu, Z; Sunden, B; Wadso, L; Tobias, T; Kopcansky, P; Timko, M ; Lisy, V: ACTA PHYSICA POLONICA A, 2018, Vol. 1330, Issue 3, 564-566

[8] Influence of Electric Field on AC Magnetic Susceptibility of a Mineral Oil Based Ferrofluid - Rajnak, M Dolnik, B ; Tobias, T ; Paulovicova, K; Kurimsky, J; Cimbala, R; Kopcansky, P; Timko, M, ACTA PHYSICA POLONICA A, 2018, Vol. 133, Issue:3, 567-569

[9] Variation of Magnetic Fluid Deformation Related to Nanoparticle Concentration in Steady Electric Field - Kostelec, M; Kurimsky, J; Cimbala, R; Spes, M; Farkas, R; Dolnik, B ; Gamcova, M; Rajnak, M; Timko, M; Kopcansky, P, Paulovicova, K; Vargova, B, ACTA PHYSICA POLONICA A, 2018, Vol. 133, Issue: 3, 570-573

[10] The Shielding Effectiveness of a Magnetic Fluid in Radio Frequency Range - Dolnik, B; Rajnak, M; Cimbala, R; Kolcunova, I; Kurimsky, J; Dzmura, J; Petras, J; Zbojovsky, J ; Kostelec, M; Kopcansky, P; Timko, M: ACTA PHYSICA POLONICA A, 2018, Vol. 133, Issue: 3, 585-587

[11] Magnetic fluids and their complex systems - Kopcansky, P; Timko, M; Konecna, M; Zavisova, V; Kubovcikova, M; Molcan, M; Balejcikova, L; Tomasovicova, N; Rajnak, M; Gdovinova, V; MODERN PROBLEMS OF MOLECULAR PHYSICS, Book Series: Springer Proceedings in Physics, 2018, Volume: 197, 151-184

26.) Makroskopicky anizotropne kompozity na báze kvapalných kryštálov a magnetických nanočastíc (*Macroscopic anisotropic composites based on liquid crystals and magnetic nanoparticles*)

Zodpovedný riešiteľ:	Natália Tomašovičová
Trvanie projektu:	1.1.2017 / 31.12.2020
Evidenčné číslo projektu:	2/0016/17
Organizácia je	áno
koordinátorom projektu:	
Koordinátor:	Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1

Čerpané financie: 0

Dosiahnuté výsledky:

Boli pripravené a študované nové typy kompozitných systémov na báze termotropných kvapalných kryštálov dopované novým typom magnetických častíc: doštičkovými časticami a vretenovitými časticami. Výsledky ukázali, že tieto kompozity môžu byť stabilné pri dvoch rôznych orientáciách magnetického momentu častice a direktora nematického kvapalného kryštálu. Sledovanie zmeny teploty prechodu z izotropnej do nematickej fázy čistého kalamitického kvapalného kryštálu, bananovitého kvapalného kryštálu a ich zmesi (v pomere 50:50) dopovaného sférickými magnetickými časticami pri rôznych orientáciách magnetického poľa ukázalo, že táto teplota sa môže posúvať k vyšším alebo k nižším hodnotám v závislosti od smeru aplikovaného magnetického poľa. Boli pripravené lyotropné kvapalné kryštály dopované sférickými a vretenovitými magnetickými nanočasticami. Na týchto hybridných materiáloch bola študovaná interakcia medzi jednotlivými zložkami v závislosti od typu a koncentrácie nanočastíc pomocou malouhlového rozptylu neutrónov a atómovej silovej mikroskopie (AFM). Dentritické štruktúry, ktoré vznikajú v dôsledku samosporadúvajúcich procesov v týchto materiáloch boli charakterizované pomocou optickej mikroskopie, AFM a skenovacej elektrónovej mikroskopie.

1. On the impact of surfactant type on the structure of aqueous ferrofluids - Petrenko, V. I. ; Artykulnyi, O. P.; Bulavin, LA; Almasy, L; Garamus, VM ; Ivankov, OI; Grigoryeva, NA; Vekas, L; Kopcansky, P; Avdeev, MV , COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS 541 (2018) 222-226

2. D,L-lysine functionalized Fe₃O₄ nanoparticles for detection of cancer cells - Antal, I ; Koneracka, M; Kubovcikova, M; Zavisova, V; Khmara, I; Lucanska, D; Jelenska, L; Vidlickova, I; Zatovicova, M; Pastorekova, S; Bugarova, N; Micusik, M; Omastova, M; Kopcansky, P. COLLOIDS AND SURFACES B-BIOINTERFACES, 2018, Vol. 163, 236-245

3. Fe(II) formation after interaction of the amyloid β -peptide with iron-storage protein ferritin-Balejcikova, L; Siposova, K; Kopčanský, P; Safarik, I, Journal of Biological Physics, 2018, 1-7

4. Tuning the phase transition temperature of ferronematics with a magnetic field - Toth-Katona, T; Gdovinova, V; Tomasovicova, N; Eber, N ; Fodor-Csorba, K ; Jurikova, A; Zavisova, V; Timko, M; Chaud, X; Kopcansky, P , SOFT MATTER 14 (2018) 1647-1658

5. Lysozyme Amyloid Fibrils Doped by Carbon Nanotubes - Majorosova, J; Tomasovicova, N ; Mitroova, Z; Rajnak, M; Girman, V; Kopcansky, P, ACTA PHYSICA POLONICA A 133 (2018) 588-590

6. SAW Investigation of Structural Changes in Liquid Crystals Doped with Magnetic Particles - Bury, P; Vevericik, M; Kudelcik, J; Kopcansky, P; Timko, M; Zavisova, V. ACTA ACUSTICA UNITED WITH ACUSTICA 104 (2018) 48-53

7. Dynamic morphogenesis of dendritic structures formation in hen egg white lysozyme fibrils doped with magnetic nanoparticles - Tomasovicova, N; Hu, PS; Zeng, CL; Hurakova, M; Csach, K; Majorosova, J; Kubovcikova, M; Kopcansky, P. COLLOIDS AND SURFACES B-BIOINTERFACES 161 (2018), 457-463

8. The influence of goethite nanorods on structural transitions in liquid crystal 6CHBT - Kopcansky, P; Gdovinová, V; Burylov, S; Burylova, N; Voroshilov A; Majorošová, J; Agresti, F; Zin, V, Barison, S; Jadzyn, J; Tomašovicová, N; Journal of Magnetism and Magnetic Materials 459 (2018) 26-32

9. Structural changes in liquid crystals doped with functionalized carbon Nanotubes - Bury, P; Veveričik, M; Kopčanský, P; Timko, M; Mitróová, Z; Physica E: Low-dimensional Systems and Nanostructures 103 (2018), 53-59

10. Influence of Temperature on the Magneto-Dielectrics Effect of Oil-Based Ferrofluid - Kudelcik, J ; Hardon, S; Bury, P; Timko, M; Kopcansky, P , ACTA PHYSICA POLONICA A 133 (2018) 483-485
11. Rheological and Thermal Transport Characteristics of a Transformer Oil Based Ferrofluid - Paulovicova, K; Tothova, J; Wu, Z; Sunden, B; Wadso, L; Tobias, T; Kopcansky, P; Timko, M ; Lisy, V. ACTA PHYSICA POLONICA A 133 (2018)
12. Influence of Electric Field on AC Magnetic Susceptibility of a Mineral Oil Based Ferrofluid - Rajnak, M Dolnik, B ; Tobias, T ; Paulovicova, K; Kurimsky, J; Cimbala, R; Kopcansky, P; Timko, M ,ACTA PHYSICA POLONICA A 133 (2018) 567-569
13. Magnetic Freedericksz transition in a ferronematic liquid crystal doped with spindle magnetic particles - Tomašovičová, N; Burylov, S; Gdovinová, V; Tarasov, A; Kovač, J; Burylova, N; Voroshilov, A; Kopčanský, P; Jadžyn, J; Journal of Molecular Liquids 267 (2018) 390-397.

27.) Prirodzené užívateľské rozhranie na báze algoritmov spracovania RGB-D obrazu s využitím v biomedicíne (*Natural User Interface based on RGB-D Image Processing Algorithms and their Application in Biomedicine*)

Zodpovedný riešiteľ:	Zoltán Tomori
Trvanie projektu:	1.1.2016 / 31.12.2018
Evidenčné číslo projektu:	VEGA 2/0086/16
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 3842 €

Dosiahnuté výsledky:

Zvládnutie výroby mikronástrojov na nepriamu manipuláciu ako aj softvér na ich ovládanie. Každý mikro-nástroj v tvare vidlice je ovládaný synchronizovanou trojicou laserových pascí realizujúcich jeho posun a rotáciu. Optická pinzeta sníma obrazy z dvoch kamier (s malým a veľkým rozlíšením) a prenáša ich cez internet do riadiaceho programu, ktorý po ich spracovaní vysiela späť riadiace príkazy pre jednotlivé pasce optickej pinzety. Interaktívny mód takýmto spôsobom ovláda nástroje myšou, joystickom, gamepadom alebo polohou prstov snímaných kamerou Leap Motion. V móde „autopilot“ pasce udržiavajú smer a rýchlosť pohybu, v prípade hrozacej kolízie s prekážkou program reaguje podľa naprogramovanej stratégie. Dvojfotónová polymerizácia bola úspešne otestovaná aj pri zložitejších tvaroch potrebných pri konštrukcii budúceho mikrorobota (klbové a pružné uchytania).

28.) Supramolekulárne komplexy biomakromolekúl (*Supramolecular complexes of biomacromolecules*)

Zodpovedný riešiteľ:	Eva Valušová
Trvanie projektu:	1.1.2016 / 31.12.2019
Evidenčné číslo projektu:	2/0038/16
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	-

Dosiahnuté výsledky:

29.) Štúdium magnetických vlastností vybraných multiferroických materiálov na báze oxidov 3d kovov (*Magnetic properties of selected 3d metal-oxides based multiferroics*)

Zodpovedný riešiteľ: Mária Zentková
Trvanie projektu: 1.1.2016 / 31.12.2018
Evidenčné číslo projektu: 2/0132/16
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

MIHALIK, Marián - MIHALIK, Matúš - ZENTKOVÁ, Mária - UHLÍŘOVÁ, Klára - KRATOCHVÍLOVÁ, Marie - ROUPCOVÁ, Pavla. Magneto-crystalline anisotropy of NdFe_{0.9}Mn_{0.1}O₃ single crystal. In Physica B: Condensed Matter, 2018, vol. 536, p. 89 - 92. (1.453 - IF2017). (2018 - Current Contents, WOS, SCOPUS). ISSN 0921-4526.

MIHALIK, Matúš - MIHALIK, Marián - ZENTKOVÁ, Mária - UHLÍŘOVÁ, Klára - KRATOCHVÍLOVÁ, Marie - FITTA, Magdalena - QUINTERO, Pedro A.- MEISEL, Mark W. Tuning of magnetism in DyMn_{1-x}FexO₃ (x < 0.1) system by iron substitution. In Physica B: Condensed Matter, 2018, vol. 536, p. 102-106. (1.453 - IF2017). (2018 - Current Contents, WOS, SCOPUS). ISSN 0921-4526.

Programy: APVV

30.) Dizajn štruktúry a funkčných vlastností magneticky mäkkých kompozitných materiálov na báze 3-d prechodných kovov (*Design of the structure and the functional properties of soft magnetic 3-d transitions metals based composites*)

Zodpovedný riešiteľ: Marianna Baťková
Trvanie projektu: 1.7.2016 / 31.12.2019
Evidenčné číslo projektu: APVV-15-0115
Organizácia je koordinátorom projektu: nie
Koordinátor: Prírodovedecká fakulta UPJŠ, Košice
Počet spoluriešiteľských inštitúcií: 4 - Slovensko: 4
Čerpané financie: APVV: 5824 €

Dosiahnuté výsledky:

V priebehu roka sme realizovali MFM charakterizáciu kompozitných materiálov, predovšetkým tých na báze magneticky mäkkej zliatiny permalloy so živitou modifikovanou feritovými nanovláknami. Zároveň sme pracovali na optimalizácii MFM charakterizácie materiálov tohto typu.

Na konferencii: The International Conference on Nanosciences & Nanotechnology, konanej 3–6 júla

2018 v Tesalonikách, v Grécku (NN18) sme prezentovali poster s názvom Preparation of Soft Magnetic Composites Based on Permalloy and Modified Resin Ferrite Nanofibres.

31.) Exotické kvantové stavy nízkorozmerných spinových a elektrónových systémov (*Exotic quantum states of low-dimensional spin and electron systems*)

Zodpovedný riešiteľ: Hana Čenčariková
Trvanie projektu: 1.7.2017 / 30.6.2021
Evidenčné číslo projektu: APVV-16-0186
Organizácia je koordinátorom projektu: nie
Koordinátor: Univerzita Pavla Jozefa Šafárika v Košiciach Prírodovedecká fakulta
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 4597 €

Dosiahnuté výsledky:

1. K. Karľová, J. Strečka, M.L. Lyra, Unconventional quantum antiferromagnetism with a fourfold symmetry breaking in a spin-1/2 Ising-Heisenberg pentagonal chain, Phys. Rev. B 97 (2018) 104407 (11 strán). doi: 10.1103/PhysRevB.97.104407
2. J. Strečka, K. Karľová, V. Baliha, O. Derzhko, Ising versus Potts criticality in low-temperature magnetothermodynamics of a frustrated spin-1/2 Heisenberg triangular bilayer, Phys. Rev. B 98 (2018) 174426 (14 strán). doi: 10.1103/PhysRevB.98.174426
3. A. Bobák, E. Jurčišinová, M. Jurčišin, M. Žukovič, Frustrated spin-1/2 Ising antiferromagnet on a square lattice in a transverse field, Phys. Rev. E 97 (2018) 022124 (7 strán). doi: 10.1103/PhysRevE.97.022124
4. R. Krčmár, L. Šamaj, Original electric-vertex formulation of the symmetric eight-vertex model on the square lattice is fully nonuniversal, Phys. Rev. E 97 (2018) 012108 (12 strán). doi: 10.1103/PhysRevE.97.012108
5. M. Žukovič, G. Kalagov, Magnetic quasi-long-range ordering in nematic systems due to competition between higher-order couplings, Phys. Rev. E 97 (2018) 052101 (9 strán). doi: 10.1103/PhysRevE.97.052101
6. J. Honkonen, T. Lučivjanský, V. Škultéty, Influence of turbulent mixing on critical behavior of directed percolation process: Effect of compressibility, Phys. Rev. E 97 (2018) 022123 (18 strán). doi: 10.1103/PhysRevE.97.022123
7. H. Čenčariková, J. Strečka, A. Gendiar, Magnetization processes and existence of reentrant phase transitions in coupled spin-electron model on doubly decorated planar lattices, J. Magn. Magn. Mater. 452 (2018) 512–521 (10 strán). doi: 10.1016/j.jmmm.2017.10.056
8. M. Žukovič, M. Semjan, Magnetization process and magnetocaloric effect in geometrically frustrated Ising antiferromagnet and spin ice models on a 'Star of David' nanocluster, J. Magn. Magn. Mater. 451 (2018) 311–318 (8 strán). doi: 10.1016/j.jmmm.2017.11.076
9. M. Žukovič, M. Borovský, A. Bobák, Thermodynamic and critical properties of an antiferromagnetically stacked triangular Ising antiferromagnet in a field, Phys. Lett. A 382 (2018) 1305–1311 (7 strán). doi: 10.1016/j.physleta.2018.03.026
10. M. Žukovič, Multiple phase transitions in the XY model with nematic-like couplings, Phys. Lett. A 382 (2018) 2618–2621 (4 strany). doi: 10.1016/j.physleta.2018.07.039
11. L. Gálisová, J. Strečka, Magnetic and magnetocaloric properties of the exactly solvable mixed-

spin Ising model on a decorated triangular lattice in a magnetic field, *Physica E* 99 (2018) 244-253 (10 strán). doi: 10.1016/j.physe.2018.01.017

12. K. Karl'ová, J. Strečka, Continuous field-driven phase transition from the Ising universality class of a frustrated spin-1/2 Heisenberg FM/AF square bilayer, *Solid State Commun.* 281 (2018) 31-37 (7 strán). doi: 10.1016/j.ssc.2018.06.014

13. H. Čenčariková, J. Strečka, A. Gendiar, N. Tomašovičová, The influence of further-neighbor spin-spin interaction on a ground state of 2D coupled spin-electron model in a magnetic field, *Physica B* 536 (2018) 432-438 (7 strán). doi: 10.1016/j.physb.2017.10.029

14. J. Strečka, Strong- and Weak-Universal Critical Behaviour of a Mixed-Spin Ising Model with Triplet Interactions on the Union Jack (Centered Square) Lattice, *Entropy* 20 (2018) 91 (12 strán). doi: 10.3390/e20020091

15. J. Strečka, K. Karl'ová, Magnetization curves and low-temperature thermodynamics of two spin-1/2 Heisenberg edge-shared tetrahedra, *AIP Adv.* 8 (2018) 101403 (4 strany). doi: 10.1063/1.5042029

16. R. Krčmár, Y. Lee, J. Genzor, H. Čenčariková, T. Nishino and A. Gendiar, Tensor-network study of quantum phase transition on Sierpinski fractal, *Phys. Rev. E* 98 (2018) 062114 (8 strán). doi: 10.1103/PhysRevE.98.062114

17. H. Čenčariková and J. Strečka, Enhanced magnetoelectric effect of exactly solved spin-electron model on a doubly decorated square lattice in vicinity of a continuous phase transition, *Phys. Rev. E* 98 (2018) 062129 (7 strán). doi: 10.1103/PhysRevE.98.062129

32.) Komplexné štúdium efektov v nízko-rozmerných kvantových spinových systémoch (Complex study of effects in low-dimensional quantum spin systems)

Zodpovedný riešiteľ:	Hana Čenčariková
Trvanie projektu:	1.1.2017 / 31.12.2018
Evidenčné číslo projektu:	DS-2016-0046
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských inštitúcií:	2 - Rakúsko: 1, Česko: 1
Čerpané financie:	APVV: 3554 €

Dosiahnuté výsledky:

[1] H. Čenčariková, D. Legut, The effect of relativity on stability of Copernicium phases, their electronic structure and mechanical properties, *Physica B* 536 (2018) 576-582.

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

Zodpovedný riešiteľ:	Pavel Diko
Trvanie projektu:	1.8.2018 / 30.6.2018
Evidenčné číslo projektu:	BMREBCO
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	-

Dosiahnuté výsledky:

Hajdova, P., Volochova, D., Rajnak, M., Antal, V., Diko, P., Growth, microstructure and properties of GdBCO-Ag superconductor, IEEE Transactions on Applied Superconductivity. Article in press. IF 1.288

P. Diko, L.Vojtkova, M. Vojtko, M.Rajnak, Microstructural Aspects of Infiltration Growth YBCO Bulks with Chemical Pinning, IEEE Transactions on Applied Superconductivity, in press. IF 1.288

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

Zodpovedný riešiteľ: Slavomír Gabáni
Trvanie projektu: 1.8.2018 / 30.6.2022
Evidenčné číslo projektu: APVV-17-0020
Organizácia je áno
koordinátorom projektu:
Koordinátor: Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských 2 - Slovensko: 2
inštitúcií:
Čerpané financie: APVV: 20244 €

Dosiahnuté výsledky:

[1] Mat. Orendáč, S. Gabáni, E. Gažo, G. Pristáš, N. Shitsevalova, K. Siemensmeyer, K. Flachbart: Rotating magnetocaloric effect and unusual magnetic features in metallic strongly anisotropic geometrically frustrated TmB₄. Scientific Reports 8, 10933 (2018)

[2] N.E. Sluchanko, A.L. Khoroshilov, A.V. Bogach, S.Yu. Gavrilkin, V.V. Glushkov, S.V. Demishev, V.N. Krasnorussky, N.Yu. Shitsevalova, V.B. Filipov, S. Gabani, K. Flachbart, B.Z. Malkin: Magnetic anisotropy of the low-temperature specific heat of Ho_{0.01}Lu_{0.99}B₁₂ with dynamic charge stripes. Journal of Experimental and Theoretical Physics Letters 108, 454-459 (2018)

[3] N.E. Sluchanko, A.P. Dudka, O.N. Khrikina, N.B. Bolotina, A.N. Azarevich, A.V. Bogach, S.Yu. Gavrilkin, S.V. Demishev, A.V. Dukhnenko, N.Yu. Shitsevalova, V.B. Filipov, S. Gabani, K. Flachbart: Osobnosti kristalicheskoi strukturi v okrestnosti kvantovoi kriticheskoi tochki i pri perechode metal-izoljator v dodekaboridach Tm_{1-x}Yb_xB₁₂. Journal of Experimental and Theoretical Physics Letters XXX, (2018)

[4] M.M. Markina, B.V. Mill, G. Pristáš, M. Marcin, S.A. Klimin, K.N. Boldyrev, M.N. Popova: La₃CrGe₃Be₂O₁₄ and Nd₃CrGe₃Be₂O₁₄: New magnetic compounds of the langasite family. Journal of Alloys and Compounds 779, 380-386 (2018)

35.) Nanočastice v anizotropných systémoch (*Nanoparticles in anisotropic systems*)

Zodpovedný riešiteľ: Peter Kopčanský
Trvanie projektu: 1.7.2016 / 30.6.2020
Evidenčné číslo projektu: APVV-15-0453
Organizácia je áno
koordinátorom projektu:
Koordinátor: Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských 0
inštitúcií:
Čerpané financie: -

Dosiahnuté výsledky:

Boli pripravené nové typy kompozitných materiálov na báze termotropných a lyotropných kvapalných kryštálov dopovaných magnetickými nanočasticami s vysokou tvarovou anizotropiou. Pre spindle nanočastice je zaujímavé, že ich magnetický moment je orientovaný kolmo na ich dlhú os. Pripravené kompozitné systémy boli študované pomocou DSC, optických a magneto-dielektrických meraní, metódami malouhlového rozptylu ako je SANS a SAXS, AFM, SEM merania magnetických vlastností. Praktická aplikácia feronematík v rôznych magneto-optických alebo magneto-mechanických zariadeniach, ale aj v biomedicíne závisí od stability kompozitných systémov.

Morfologické a štrukturalizačné vlastnosti samotných nanočastíc, ale aj pripravených kvapalných kryštálov boli charakterizované rôznymi metodikami. Pomocou magneto-dielektrických meraní bol študovaný vplyv rozmeru a koncentrácie na magnetický Frederickszov prechod a ich odozva na magnetické pole pri nízkych hodnotách tohto poľa, t.j. ďaleko pod Frederickszovým prechodom.

Na základe experimentálnych a teoretických výpočtov sme preukázali, že dopovanie kompozitu na báze 6CB kvapalného kryštálu „spidle“ magnetickými nanočasticami vedie k výraznému poklesu kritického magnetického poľa s narastajúcou dĺžkou a koncentráciou týchto častíc (N. Tomašovičová a kol. J of Molecular Liquids 267 (2018) 390).

Na sérii vzoriek na báze kalamitického kvapalného kryštálu 4-n-octyloxyphenyl 4-n-hexyloxybenzoate (6OO8), banánového kvapalného kryštálu 4,6-dichloro-1,3-phenylene bis(40-(10-undecenyloxy)biphenyl-4-carboxylate) (11DCIPBBC) a ich binárnej zmesi v pomere 50:50 hmotnostných percent bol v dvoch experimentálnych geometriách: (i) magnetické pole bolo orientované paralelne s direktorom kvapalného kryštálu, (ii) magnetické pole bolo orientované kolmo na direktor kvapalného kryštálu (T. Toth-Katona a kol. Soft Matter 14 (2018) 1647) študovaný prechod z izotropnej do nematickej fázy, ktorý bol indukovaný magnetickým poľom. Bolo zistené, že systémy vykazujú bistabilné správanie sa, t.j. môžu byť stabilné pri dvoch rôznych orientáciách magnetického momentu častice a direktora nematického kvapalného kryštálu.

Praktická aplikácia feronematík v rôznych magneto-optických alebo magneto-mechanických zariadeniach, ale aj v biomedicíne závisí od stability kompozitných systémov. Jedným z cieľov projektu je použitie detergentov na stabilizáciu nanočastíc. V rámci riešenia týchto čiastkových cieľov sme sa venovali štúdiu účinku detergentov na procesy formovania amyloidných fibríl, ktoré predstavujú nielen modely biologických kvapalných kryštálov, ale sú spájané aj s mnohými, nielen neurodegeneratívnymi ochoreniami. Študovali sme interakciu týchto agregátov s magnetoferitínom a rekonštruovaným feritínom; pričom sme zistili, že ako magnetoferitín, tak aj rekonštruované molekuly feritínu ovplyvňujú veľkosť, štruktúru a množstvo amyloidných vlákien. Predpokladáme, že tento anti-amyloidný účinok magnetoferitínu a rekonštruovaný feritín je spôsobený prítomnosťou uvoľňovaného železa vo vzorkách. Okrem toho sme preukázali, že interakcia A β peptidu (súvis s Alzheimerovou chorobou) s proteínom feritínom, ktorý slúži ako zásoba železa, môže viesť k redukcii železa. Ukázali sme, že počas amyloidnej fibrilizácie dochádza k redukcii Fe (III) pochádzajúceho z feritínového jadra (ferrihydrit) na Fe (II). Naše pozorovanie môže čiastočne vysvetliť tvorbu minerálov obsahujúcich Fe(II) v mozgu pacientov trpiacich neurodegeneratívnymi ochoreniami.

1.Khmara, I; Kubovcikova, M; Koneracka, M; Kalska-Szostko, B; Zavisova, V; Antal, I; Rajnak, M; Dankova, Z; Kavecansky, V; Omastova, M; Kopcansky, P; Preparation and characterization of magnetic nanoparticles, Acta Phys. Pol. A, 133 (2018) 704–706

2.Petrenko, V. I. ; Artykulnyi, O. P.; Bulavin, LA; Almasy, L; Garamus, VM ; Ivankov, OI; Grigoryeva, NA; Vekas, L; Kopcansky, P; Avdeev, MV , On the impact of surfactant type on the structure of aqueous ferrofluids. Colloids and Surfaces A-Physicochemical and Engineering Aspects, 541, (2018) 222-226

3.Paulovicova, K; Tothova, J; Wu, Z; Sunden, B; Wadso, L; Tobias, T; Kopcansky, P; Timko, M ; Lisy, V: Rheological and Thermal Transport Characteristics of a Transformer Oil Based Ferrofluid. Acta Phys. Pol. A,, 133 (2018) 564-566

4. Rajnak, M; Dolnik, B ; Tobias, T ; Paulovicova, K; Kurimsky, J; Cimbala, R; Kopcansky, P; Timko, M; Influence of Electric Field on AC Magnetic Susceptibility of a Mineral Oil Based Ferrofluid, *Acta Phys. Pol. A*, 133 (2018) 567-569
5. Rajnak, M ; Timko, M ; Kurimsky, J ; Dolnik, B ; Cimbala, R ; Tobias, T ; Paulovicova, K ; Mariano, JFML (Morais Lopes Mariano, Jose Fernando); Kopcansky, P , Electrical conduction in a transformer oil-based magnetic nanofluid under a DC electric field. *J. Magn. Magn. Mater.*, 459 (2018) 191-196 , Special Issue: SI
6. Majorošová, J; Tomašovičová, N; Mitróová, Z; Rajňak, M; Girman, V; Kopčanský, P; Lysozyme amyloid fibrils doped by carbon nanotubes, *Acta Physica Polonica A*, 133 (2018) 588-590
7. Tóth-Katona, T; Gdovinová, V; Tomašovičová, N; Éber, N; Fodor-Csorba, K; Juríková, A; Závišová, V; Timko, M; Chaud, X; Kopčanský, P; Tuning the phase transition temperature of ferronematics with a magnetic field, *Soft Matter* 14 (2018) 1647-1658
8. Kopcansky , P; Gdovinová, V; Burylov, S; Burylova, N; Voroshilov A; Majorošová, J; Agresti, F; Zin, V, Barison, S; Jadzyn, J; Tomašovicová, N; The influence of goethite nanorods on structural transitions in liquid crystal 6CHBT, *J. Magn. Magn. Mater.* 459 (2018) 26-32
9. Tomašovičová, N; Burylov, S; Gdovinová, V; Tarasov, A; Kováč, J; Burylova, N; Voroshilov, A; Kopčanský, P; Jadzyn, J; Magnetic Freedericksz transition in a ferronematic liquid crystal doped with spindle magnetic particles, *J. Molecular Liquids* 267 (2018) 390-397
10. Bury, P; Vevericik, M ; Kudelcik, J ; Kopcansky, P ; Timko, M ; Zavisova, V; SAW Investigation of Structural Changes in Liquid Crystals Doped with Magnetic Particles, *Acta Acustica United with Acustica* , 104 (2018) 48-53
11. Bury, P; Veveričík, M; Kopčanský, P; Timko, M; Mitróová, Z; Structural changes in liquid crystals doped with functionalized carbon Nanotubes, *Physica E: Low-dimensional Systems and Nanostructures*, 103 (2018) 53-59
12. Tomašovičová, N; Hu, PS; Zeng, CL; Huráková, M; Csach, K; Majorošová, J; Kubovčíková, M; Kopčanský, P; Dynamic morphogenesis of dendritic structures formation in hen egg white lysozyme fibrils doped with magnetic nanoparticles, *Colloids and Surfaces B: Biointerfaces* 161 (2018) 457-463
13. Keša P, Jancura D, Kudláčová J, Valušová E, Antalík M., Excitation of triplet states of hypericin in water mediated by hydrotropic cromolyn sodium salt, *Spectrochim Acta A Mol Biomol Spectrosc.* 193 (2018) 185-191
14. Balejcikova, L; Siposova, K; Kopčansky, P; Safarik, I; Fe(II) formation after interaction of the amyloid β -peptide with iron-storage protein ferritin, *Journal of Biological Physics*, 44 (2018) 1-7
15. Balejčíková, L., Petrenko, V.I., Baťková, M., Šipošová, K., Garamus, V.M., Bulavin, L.A., Avdeev, M.V., Almásy, L., Kopčanský, P. Disruption of amyloid aggregates by artificial ferritins. In: *Journal of Magnetism and Magnetic Materials* 473 (2019) 215–220
16. Siposova, K., Sedlak, E., Kozar, T., Nemergut, M., Musatov A. Dual effect of non-ionic detergent Triton X-100 on insulin amyloid formation. In: *Colloids and Surfaces B: Biointerfaces*, 173 (2019) 709-718

Peter Kopcansky, Milan Timko, Martina Koneracka, Vlasta Zavisova, Martina Kubovcikova, Matus Molcan, Lucia Balejcikova, Natalia Tomasovicova, Michal Rajnak and Veronika Gdovinova, *Magnetic Fluids and Their Complex Systems*, Chapter 8, Springer International Publishing AG 2018, L. A. Bulavin and A. V. Chalyi (eds.), *Modern Problems of Molecular Physics*, Springer Proceedings in Physics 197, https://doi.org/10.1007/978-3-319-61109-9_8

36.) Grafénová nanoplatforma na detekciu rakoviny (*Graphene-based nanoplatform for detection of cancer*)

Zodpovedný riešiteľ: Mária Omastová
Zodpovedný riešiteľ v organizácii SAV: Martina Koneracká
Trvanie projektu: 1.7.2015 / 30.6.2019
Evidenčné číslo projektu: APVV-14-0120
Organizácia je koordinátorom projektu: nie
Koordinátor: Ústav polymérov SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 12011 €

Dosiahnuté výsledky:

Tento projekt je zameraný na protilátkami sprostredkovanú detekciu a zobrazovanie nádorovej hypoxie. Takmer všetky pevné nádory sú hypoxické, majú zvýšený metastatický potenciál a sú rezistentné na chemo/rádioterapiu. V tejto etape riešenia projektu sa nám podarilo pripraviť stabilné magnetické kvapaliny, ktoré obsahovali magnetické nanočastice funkcionizované ďalšími typmi aminokyselín (AA), ktoré sa od predchádzajúcich líšili štruktúrou a počtom amino skupín v reťazci. Pripravila sa séria vzoriek s rôznym hmotnostným pomerom AA/Fe₃O₄ s cieľom zistiť optimálnu vstupnú koncentráciu AA, potrebnú na funkcionizáciu magnetických nanočastíc. Na sledovanie modifikácie boli použité viaceré metódy, napr. DLS, UV/Vis a FTIR. Avšak kľúčovým krokom v procese prípravy magnetických nanočastíc s naviazanou protilátkou, bola imobilizácia protilátky M75 (Ab). Ab je špecifická pre karbonickú anhydrázu IX (CA IX), ktorá sa považuje za jeden z najlepších markerov hypoxie nádorov. Najlepšie výsledky imobilizácie, t.j. najvyššie percento naviazania Ab na magnetické nanočastice sme dosiahli pri hmotnostnom pomere 1:3 Ab/Fe₃O₄ (biokomplex). Schopnosť špecifickej väzby funkcionizovaných nanočastíc (Ab-conjugated MFPLL) konjugovaných s myšou monoklonovou protilátkou VII/20 (100 µg/ml) sme potvrdili imunohistochemickou analýzou. In vitro analýza sa uskutočnila na 3D modeloch, pretože klasická kultivácia buniek v monovrstve sa diametrálne líši od reálneho nádoru, pričom model multicelulárneho sferoidu pripodobňuje nádorové mikroprostredie omnoho presnejšie. Sferoidy sa formovali vo visiacich kvapkách a následne kultivovali v neadherentých Petriho miskách 5 dní. Na tvorbu sferoidov sa využili nádorové bunky HT29, ktoré sú charakteristické vysokou expresiou CA IX na bunkovej membráne, a preto reprezentujú vhodný model na štúdium špecifickej väzby nanočastíc MFPLL konjugovaných s monoklonovou protilátkou VII/20.

Výsledky imunohistochemie z parafinových rezov z HT29 sferoidov ukázali špecifickú interakciu Ab-MFPLL častíc a CA IX proteínu lokalizovaného na membránach buniek povrchových vrstiev sferoidov.

[1] I. Khmara, M. Kubovcikova, M. Koneracka, B. Kalska-Szostko, V. Zavisova, I. Antal, M. Rajnak, Z. Dankova, V. Kavecansky, M. Omastova, P. Kopcansky: Preparation and characterization of magnetic nanoparticles, *Acta Phys. Pol. A.* 133 (2018) 704–706

[2] I. Antal, M. Koneracka, M. Kubovcikova, V. Zavisova, I. Khmara, D. Lucanska, L. Jelenska, I. Vidlickova, M. Zatovicova, S. Pastorekova, N. Bugarova, M. Micusik, M. Omastova, P. Kopcansky: D,L-lysine functionalized Fe₃O₄ nanoparticles for detection of cancer cells, *Colloids Surfaces B Biointerfaces.* 163 (2018) 236–245

[3] P. Kopcansky, M. Timko, M. Koneracka, V. Zavisova, M. Kubovcikova, M. Molcan, L. Balejcikova, N. Tomasovicova, M. Rajnak, V. Gdovinova: Magnetic fluids and their complex systems. (Kapitola v knihe) *Springer Proceedings in Physics* 197 (2018) 151-18

[4] V.I.Petrenko, O.P. Artykulnyi, L.A. Bulavin, L. Almasy, V.M. Garamus, O.I. Ivankov, N.A. Grigoryeva, L. Vekas, P. Kopcansky, M.V. Avdeev: On the impact of surfactant type on the structure of aqueous ferrofluids. COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS, Volume: 541, 222-226

37.) Účinok nanoenkapsulovaného simvastatínu na kardiovaskulárny systém pri experimentálnom metabolickom syndróme (*Effects of nanoencapsulated simvastatin on cardiovascular system in experimental metabolic syndrome*)

Zodpovedný riešiteľ: Oľga Pechánová
Zodpovedný riešiteľ v organizácii SAV: Vlasta Závišová
Trvanie projektu: 1.7.2015 / 30.6.2019
Evidenčné číslo projektu: APVV-14-0932
Organizácia je koordinátorom projektu: nie
Koordinátor: Centrum experimentálnej medicíny SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 11049 €

Dosiahnuté výsledky:

Kľúčovým cieľom projektu je zvýšiť biodostupnosť simvastatínu použitím nanoenkapsulovaného simvastatínu, podávaného súčasne s nanoenkapsulovaným CoQ10 resp. inhibítorom PCSK9, alebo v polymére s antioxidačnými vlastnosťami. Za týmto účelom boli pripravené polymérne nanosféry modifikovanou nanoprecipitačnou metódou. Na syntézu boli použité rôzne druhy polymérov resp. kopolymérov (polymér kyseliny mliečnej, kopolyméry kyseliny mliečnej a glykolovej s rôznym pomerom jednotlivých monomérov v reťazci).

V práci [1] bol skúmaný vplyv procesu sonifikácie na zloženie a rôzne fyzikálne vlastnosti magnetických nanočastíc, ktoré boli pripravené chemickou zrážacou reakciou. Porovnaním Mössbauerových spektier sonifikovaných a nesonifikovaných nanočastíc bolo zistené, že proces sonifikácie má vplyv na chemické zloženie magnetických nanočastíc, dochádza pravdepodobne k oxidácii magnetitu na magemit. Nanočastice boli modifikované poly-L-lyzínom s cieľom naviazať špecifickú protilátku na detekciu rakovinových buniek. Pripravená biokompatibilná magnetická kvapalina bola skúmaná rôznymi metódami.

Amino-modifikované magnetické nanočastice boli pripravené priamou chemisorpciou D, L-lyzínu (DLL) na elektrostaticky stabilizované magnetické nanočastice s cieľom naviazať špecifické protilátky (Ab), schopné detekovať rakovinové bunky. Pomocou UV/Vis spektroskopie a meraním dynamického rozptylu svetla (DLS) bol zistený optimálny hmotnostný pomer DLL/Fe₃O₄. Pomocou FTIR, UV/Vis a XPS spektroskopie bola potvrdená úspešná amínová modifikácia Fe₃O₄ nanočastíc. Vo vzorkách bolo potvrdené superparamagnetické správanie pomocou vibračného magnetometra (VSM).

Kapitola s názvom „Magnetické kvapaliny a ich komplexné systémy“ [3] poskytuje prehľad vybraných magnetických systémov obsahujúcich nanočastice (magnetické kvapaliny, magnetozómy, magnetoferitín a kvapalné kryštály dopované magnetickými časticami) ako jedinečné materiály s potenciálnym využitím v oblasti biológie a medicíny, ale aj v oblasti techniky. Hlavná myšlienka zabudovania magnetických nanočastíc do rôznych materiálov je predpoklad zlepšenia vlastností materiálov a dosiahnutie lepšieho využitia v širokom rozsahu vedeckých disciplín, ako je magnetická hypertermia, cielený transport liekov, magnetooptika, energetika a iné. V kapitole sú okrem iného zhrnuté výsledky syntézy, funkcionalizácie magnetických nanočastíc, enkapsulácia

liekov, výsledky časovo závislej distribúcie v orgánoch a vplyvu komplexu polyméru na krvný tlak spontánne hypertenzných potkanov.

Publikácie:

- [1] Preparation and characterization of magnetic nanoparticles, I. Khmara, M. Kubovcikova, M. Koneracka, B. Kalska-Szostko, V. Zavisova, I. Antal, M. Rajnak, Z. Dankova, V. Kavecansky, M. Omastova, P. Kopcansky; Acta Phys. Pol. A. 133 (2018) 704–706
- [2] D,L-lysine functionalized Fe₃O₄ nanoparticles for detection of cancer cells, I. Antal, M. Koneracka, M. Kubovcikova, V. Zavisova, I. Khmara, D. Lucanska, L. Jelenska, I. Vidlickova, M. Zatovicova, S. Pastorekova, N. Bugarova, M. Micusik, M. Omastova, P. Kopcansky; Colloids Surfaces B Biointerfaces. 163 (2018) 236–245
- [3] Magnetic fluids and their complex systems. (Kapitola v knihe) Kopcansky, P; Timko, M; Koneracka, M; Zavisova, V; Kubovcikova, M; Molcan, M; Balejcikova, L; Tomasovicova, N; Rajnak, M; Gdovinova, V; Springer Proceedings in Physics 197 (2018) 151-18

38.) Kvantové technológie, materiály a zariadenia (*Quantum Technologies, Materials and Devices*)

Zodpovedný riešiteľ:	Peter Samuely
Trvanie projektu:	1.7.2017 / 31.12.2020
Evidenčné číslo projektu:	APVV-16-0372
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Univerzita Komenského v Bratislave Fakulta matematiky, fyziky a informatiky
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	-

Dosiahnuté výsledky:

Misfity (LaSe)_{1.14}(NbSe₂) ako analóg Isingových aj vysokoteplotných supravodičov: výsledky experimentov na supravodivých misfitoch boli prezentované na konferenciách:
-Workshop Misfit Layer compound as Ising superconductor, 19.-20.6.2018, Nantes, Francúzsko, prednáška P. Samuely: Evidence of Ising Superconductivity in Misfit layer Compounds.
-International Conference on Multi-Condensate Superconductivity and Superfluidity in Solids and Ultra-Cold Gasses, 14.-18.5.2018, Terst, Taliansko. Pozvaná prednáška P. SAMUELY - Superconductivity in restricted geometries. The cases of CuxTiSe₂, ?-Bi₂Pd & (LaSe)_{1.14}(NbSe₂). Doktorand Ondrej Šofranko prezentoval poster Indications of pseudogap and Isinig spin-orbit coupling in (LaSe)_{1.14}(NbSe₂).

School on quantum materials and workshop on vortex behavior in unconventional superconductors, 7-12 October, 2018, Braga Portugalsko. P. Samuely predniesol prednášku Ising superconductivity in bulk (LaSe)_{1.14}(NbSe₂)_{m=1,2} misfit layer compound. Doktorand Ondrej Šofranko tam prezentoval poster Indications of Ising spin-orbit coupling in (LaSe)_{1.14}(NbSe₂).

Nezvyčajná korelácia medzi supravodivosťou a poľom indukovanými vlnami nábojovej hustoty v in YBa₂Cu₃O_y:

V práci J. Kačmarčík et al., Unusual Interplay between Superconductivity and Field-Induced

Charge Order in YBa₂Cu₃O_y, Phys. Rev Lett. 121, 167002 (2018), sme pomocou tepelnej capacity zmerali elektrónovú hustotu stavov v širokom intervale teplôt a magnetických polí až do 32 T (Laboratórium vysokých magnetických polí v Grenobli). V poli HDOS hustota prechádza do normálneho/nesupravodivého stavu. Teplotná závislosť HDOS vykazuje nezvyčajný tvar písmena S. Teoretická analýza naznačuje, že pri nízkych teplotách koexistuje supravodivosť a vlny nábojovej hustoty CDW. To môže byť výsledkom stabilizácie vln hustoty Cooperových párov.

Supravodivosť Bi₂Pd pod tlakom: V práci Pristaš et al. Pressure effect on the superconducting and the normal state of Bi₂Pd, Phys. Rev. B 97, 134505 (2018) sme podrobne mapovali jeho správanie v normálnom a supravodivom stave pod tlakom do 24 kbarov pri veľmi nízkych teplotách a vo vysokých magnetických poliach

39.) Nanosegregácia v mäkkých látkach polymérneho a nepolymérneho charakteru (*Nanosegregation in soft matter of polymeric and nonpolymeric nature*)

Zodpovedný riešiteľ: Marián Sedlák
Trvanie projektu: 1.7.2017 / 31.12.2020
Evidenčné číslo projektu: 16-0550
Organizácia je áno
koordinátorom projektu:
Koordinátor: Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských 0
inštitúcií:
Čerpané financie: -

Dosiahnuté výsledky:

V oblasti vývoja prototypu meracieho zariadenia na detekciu nežiaducich prímies v organických vodorozpusťných látkach na báze laserového rozptylu svetla sme prakticky dokončili vývoj prvej verzie prototypu, čo predstavovalo dokončenie elektroniky zabezpečujúcej trojkanálovú detekciu (v troch rozptylových uhloch) na báze kremíkových diód, riadenie pevnolátkového laseru, a analógovo-digitálnu konverziu signálu. Ďalej sa navrhol a zrealizoval užívateľsky komfortný softvér na riadenie procesu akumulácie dát, triedenie/filtrovanie dát, externú a internú kalibráciu, a realizoval sa návrh a výroba optomechanickej časti so zameraním na maximálnu kvalitu merania a zároveň nízke výrobné náklady na prototyp ako jednu z podstatných úžitkových hodnôt prototypu. V oblasti základného výskumu zameraného na nanosegregáciu bola prijatá do tlače práca zameraná na komplexnú charakterizáciu a objasnenie princípov nanosegregácie/mezoškálovej rozpustnosti na molekulárnej úrovni (1).

(1) D. Rak, M. Sedlák: On the Mesoscale Solubility in Liquid Solutions and Mixtures, J. Phys. Chem. B, DOI: 10.1021/acs.jpcb.8b10638, Dec. 11, 2018

40.) Prechod supravodič - izolant (*Superconductor - insulator transition*)

Zodpovedný riešiteľ: Pavol Szabó
Trvanie projektu: 1.7.2015 / 30.6.2019
Evidenčné číslo projektu: APVV-14-0605
Organizácia je áno
koordinátorom projektu:
Koordinátor: Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských 2 - Slovensko: 2
inštitúcií:
Čerpané financie: -

Dosiahnuté výsledky:

Cieľ 1, Prechod supravodič – izolant

Pri skúmaní prechodu supravodič-izolant sme vychádzali z práce P. Szabó et al., Phys. Rev. B 93 (2016), 014505, kde sme ukázali, že v tenkých filmoch MoC mechanizmus SI prechodu je fermiónový. Okrem toho sme pozorovali, že s rastúcou neusporiadanosťou/stenčovaním hrúbky filmov, spektrálne rozmazanie tunelových spektier výrazne rastie. Na vysvetlenie tohto efektu naša teoretická skupina vypracovala teóriu Dynesových supravodičov (F. Hermann a R. Hlubina, Phys. Rev. B 94, (2016) 144508; ibid. 95, (2017) 094514; ibid. 96, (2017) 014509), ktorú úspešne rozvíjali aj počas roku 2018 [2]. Tento model môže vysvetliť prítomnosť nenulovej hustoty stavov vo viacerých ultratenkých filmoch hlboko v supravodivom stave. V rokoch 2017-2018 sme pracovali na experimente, kde sme na tenkých filmoch MoC hrúbky 3 nm, naprašovaných simultánne na rôzne substráty, študovali mechanizmus, ktorý môže viesť ku rozbíjaniu Cooperových párov a nárastu spektrálneho rozmazania v tunelových spektrách. Zistili sme, že napriek tomu, že vzorky naprašované na rôzne substráty vykazujú rovnakú neusporiadanosť (plošný odpor), ich kritické teploty sa líšia. Navyše, tunelové spektrá merané na vzorkách s nižšou kritickou teplotou vykazujú evidentne nižšiu hodnotu energetickej medzery a väčšie spektrálne rozmazanie. To poukazuje na prítomnosť efektu rozbíjania Cooperových párov. Obr. 1 znázorňuje časť povrchu filmu MoC na kremíkovom substráte s výrazne vyčnievajúcou „bumerangovou“ štruktúrou a), mapu energetickej medzery b), a mapu spektrálneho rozmazania c), ktoré boli určené z tunelových spektier meraných v každom bode topografie povrchu a). Porovnávaním týchto obrázkov je evidentné, že v tenších oblastiach vzorky je spektrálne rozmazanie väčšie a energetická medzera je menšia ako v hrubších oblastiach, t.j. oblasti bližšie k substrátu vykazujú výraznejšie potlačenie supravodivosti. To nám dáva priamy dôkaz, že rozhranie medzi supravodičom a substrátom je lokálnym zdrojom rozbíjania supravodivých Cooperových párov. Výsledky boli publikované v článku [1] a prezentované formou pozvanej prednášky P. Szabóom na konferencii „Coherent superconducting hybrids and related materials“ v Les Arcs vo Francúzsku.

Taktiež sme nadviazali na našu prácu Žemlička a kol. Phys. Rev. B 92, 224506 (2015) a analyzovali sme experimentálne údaje THz spektroskopie získané na Fyzikálnom Ústave AV ČR v Prahe. Analýza ukázala dobrú zhodu s naším modelom, čím sme potvrdili konzistentnosť našich výsledkov troch rôznych meraní: STM, THz spektroskopie a mikrovlnných meraní koplanárnych rezonátorov. Výsledky boli prezentované na konferencii a v súčasnosti pripravujeme v spolupráci s FU ČAV publikáciu z týchto meraní.

Cieľ 2, Povrchové stavy v supratekutom $^3\text{He-B}$

V roku 2018 sme pokračovali v štúdiu vplyvu povrchových stavov supratekutého $^3\text{He-B}$ na dynamiku pohybu mechanických rezonátorov. Pozorovali sme na magnetickom poli závislý efekt anomálneho tlmenia pohybu mechanického rezonátora vo fyzikálnom vákuu supratekutého $^3\text{He-B}$. Anomálne tlmenie vykazovalo maximum pri hodnote magnetického poľa splňujúceho Larmorovu rezonančnú podmienku. Efekt anomálneho tlmenia sme interpretovali ako jav JMR anizotropnej magnetickej vrstvy formovanej na horizontálnom povrchu mechanického rezonátora. Numerické simulácie modelu vykazujú vynikajúcu kvalitatívnu zhodu z experimentálnymi dátami. Uvedené výsledky vrátane teoretického modelu sú predmetom publikácie: M. Človečko, E. Gažo, M. Skyba, P. Skyba: NMR on Anisotropic Magnetic Moment of Surface Bound States in Topological Superfluid $^3\text{He-B}$, ktorá bola zaslaná do časopisu Phys. Rev. B (BW12956) je v recenznom pokračovaní a modifikovaná verziu (po komentároch recenzentov) je k dispozícii na ArXive: 1809.01402.

Cieľ 3, SmB_6 – topologický izolant

Elektrónová pásová štruktúra silne korelovaného Kondo izolátora SmB_6 bola študovaná priamou metódou ARPES na synchrotróne BESSY Berlín v unikátnom ^3He refrigerátore až do teploty 1 K, pri ktorej sa podľa teoretických predpovedí očakáva existencia topologických povrchových stavov [3]. Avšak v nameraných energetických spektrách (disperzných reláciách) sme pozorovali len

triviálne povrchové stavy nevykazujúce žiadne Diracove kužele. Naopak pozorovalo sa Rashba štiepenie v okolí Gama stavov t.j. stredu Brillouinovej zóny. Na základe tohto štúdia sa systém SmB₆ javí ako triviálny povrchový vodič a nie ako topologický izolátor pri najnižších teplotách (pod približne 4 K), kde sa pozoruje zvyšková elektrická vodivosť. Práca [3] vyvolala široký medzinárodný ohlas. Bola prezentovaná formou pozvaných prednášok na APS March Meeting 2018 a CSMAG v Košiciach. Na internetovej stránke Phys.ORG bola prezentovaná ako „highlight“ v oblasti fyziky kondenzovaných látok vo februári 2018.

[1] V.Hašková, M.Kopčík, P.Szabó, T.Samuely, J.Kačmarčík, O.Onufrienko, M.Žemlička, P.Neilinger, M.Grajcar, P.Samuely: On the origin of in-gap states in homogeneously disordered ultrathin films. MoC case, Applied Surface Science 461 (2018) 143-148 IF: 4.4

[2] F. Herman and R. Hlubina, Thermodynamic properties of Dynes superconductors, Phys. Rev. B 97, 014517 (2018), IF: 3.7

[3] P. Hlawenka, K. Siemensmeyer, E. Weschke, A. Varykhalov, J. Sánchez-Barriga, N.Y. Shitsevalova, A.V. Dukhnenko, V.B. Filipov, S. Gabáni, K. Flachbart, O. Rader, E.D.L. Rienks: Samarium hexaboride is a trivial surface conductor, Nature communications 9 (2018), 517, IF: 12.134

41.) Atómárna štruktúra a unikátne vlastnosti intermetalík, amorfných, nanokryštalických a komplexných kovových zliatin (*Atomic structure and exceptional properties of intermetallics, amorphous, nanocrystalline and complex metallic alloys*)

Zodpovedný riešiteľ:	Peter Švec
Zodpovedný riešiteľ v organizácii SAV:	Ivan Škorvánek
Trvanie projektu:	1.7.2016 / 31.12.2019
Evidenčné číslo projektu:	APVV-15-0621
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 36217 €

Dosiahnuté výsledky:

Pri štúdiu magneticky tvrdých kompozitných materiálov sme sa zamerali na zliatiny na báze MnAl a MnBi. Prípravu predzliatiny, jej rýchle ochladenie a následné tepelné spracovanie sme realizovali na základe výsledkov štruktúrnej a kinetickej analýzy a in-situ rrtg. difrakcie. Naším cieľom bolo maximalizovať množstvo magneticky tvrdej tau-MnAl fázy v zliatinách na báze MnAl a nízkoteplotnej alfa-MnBi fázy v zliatinách na báze MnBi za účelom čo najväčšieho zvýšenia ich hodnoty maximálneho energetického produktu (BH)_{max}, čo je kľúčová veličina na porovnávanie kvality permanentných magnetov. Najlepšie výsledky boli dosiahnuté pre zliatinu MnAl, žíhanú pri 440°C 1 hodinu, kde (BH)_{max} dosiahol hodnotu približne 1 MGOe. Aplikácia externého magnetického poľa s intenzitou 14 T počas tepelného spracovania pri rovnakej teplote nevedla ďalšiemu nárastu jej (BH)_{max} [1].

V systémoch rýchloochladených magneticky mäkkých zliatin na báze FeB a FeCrB bol sledovaný vplyv hydrogenizácie a následnej dehydrogenizácie na ich štruktúrne a magneticky mäkké charakteristiky. Výsledky experimentov ukázali, že štruktúrne zmeny v procese hydrogenizácie/dehydrogenizácie majú reverzibilný charakter. Podrobná modelová analýza zmien koercitívneho poľa pomocou Kondorského modelu umožnila získať informácie o efektívnej magnetickej anizotropii, mikroskopických vnútorných napätiach a šírke doménových stien v

študovaných zliatinách. Teoretické modelovanie bolo použité aj pri dekompozícii frekvenčných spektier magnetickej permeability v rýchlochladených nanokryštalických FINEMET zliatinách umožnilo získať bližšie informácie o efektoch vírivých prúdov v týchto materiáloch [2, 3].

Pri štúdiu magnetických materiálov na báze La-Fe-Co-Si sme sa zamerali na cielené ovplyvňovanie ich magnetokalorických charakteristík pomocou malých zmien v chemickom zložení. Konkrétne sa jednalo o čiastočnú substitúciu atómov lantánu atómami dysprózia (publikácia v J. Magn. Magn. Mat.) a o čiastočnú substitúciu atómov Fe resp. Co atómami mangánu (2x publikácia v Acta Phys. Pol. A) Substitúcia malého množstva uvedených prvkov viedla v prípade všetkých troch študovaných systémov k poklesu hodnôt Curieho teploty. Detailná analýza charakteru magnetického fázového prechodu pomocou kombinácie teoretických a fenomenologických modelov ukázala, že substitúcia atómov La atómami Dy a Co atómami Mn nevedie k zmene typu fázového prechodu v blízkosti Curieho teploty. Na druhej strane substitúcia väčšieho množstva atómov Fe atómami Mn viedla k posilneniu IEM metamagnetického prechodu v týchto zliatinách [4 - 6].

[1] JANOTOVÁ, Irena - ŠVEC, Peter - ŠVEC, Peter Jr. - MAŤKO, Igor - JANIČKOVIČ, Dušan - KUNCA, Branislav - MARCIN, Jozef - ŠKORVÁNEK, Ivan. Formation of magnetic phases in rapidly quenched Mn-based systems. In Journal of Alloys and Compounds, 2018, vol. 749, p. 128 - 133. (3.779 - IF2017). (2018 - Current Contents, WOS, SCOPUS). ISSN 0925-8388. Q1

[2] KOVAC, J. - NOVAK, L. - KECER, J. Hydrogenation caused reversible structural changes in FeCrB type metallic glasses monitored by magnetization parameters, Journal of Alloys and Compounds, 2018 Vol.: 735, 1591-1595. (3.779 - IF2017). ISSN 0925-8388. Q1

[3] VARGA, Lajos K. - KOVÁČ, Jozef. Decomposing the permeability spectra of nanocrystalline finemet core. In AIP Advances, 2018, vol. 8, no. 4, art. no. 047205. (1.653 - IF2017). (2018 - Current Contents, WOS, SCOPUS). ISSN 2158-3226. (SMM 2017: Soft Magnetic Materials Conference). Q2

[4] GEBARA, Piotr - KOVAC, Jozef, The influence of partial substitution of La by Dy on structure and thermomagnetic properties of the LaFe_{11.0}Co_{0.7}Si_{1.3} alloy, Journal of Magnetism and Magnetic Materials, 2018, Vol.: 454 p.: 298-303. (3.046 - IF2017). Q1

[5] GEBARA, P. - MARCIN, Jozef. Influence of Partial Substitution of Fe by Mn on the Thermomagnetic Properties of Magnetocaloric LaFe_{11.2}Co_{0.7}Si_{1.1} Alloy. In: Acta Physica Polonica A, 2018, vol. 133, no. 3, p. 648-650, (0.857 – IF 2017) (2018 - Current Contents, WOS, SCOPUS). ISSN: 0587-4246, eISSN: 1898-794X. Q3

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42.) Obrazová analýza mikroskopických častíc pri automatizácii optických manipulačných techník aplikovateľných v mikro/nanorobotike. (*Image analysis of microscopic particles in the automation of optical manipulation techniques applicable in mikro/nanorobotics.*)

Zodpovedný riešiteľ:	Zoltán Tomori
Trvanie projektu:	1.7.2016 / 31.12.2019
Evidenčné číslo projektu:	APVV-15-0665
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských	0

inštitúcií:

Čerpané financie: APVV: 45045 €

Dosiahnuté výsledky:

Zvládnutie výroby mikronástrojov na nepriamu manipuláciu ako aj softvér na ich ovládanie.

Príloha C

Publikačná činnosť organizácie (generovaná z ARL)

ABC Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách

- ABC01 KOPČANSKÝ, Peter - TIMKO, Milan - KONERACKÁ, Martina - ZÁVIŠOVÁ, Vlasta - KUBOVČÍKOVÁ, Martina - MOLČAN, Matúš - BALEJČÍKOVÁ, Lucia - TOMAŠOVIČOVÁ, Natália - RAJŇÁK, Michal - GDOVINOVÁ, Veronika. Magnetic Fluids and Their Complex Systems. In Modern Problems of Molecular physics : Selected Reviews from the 7th International Conference "Physics of Liquid Matter: Modern Problems", Kyiv, Ukraine, May 27-31, 2016. - Springer, 2018, p. 151-184. ISBN 978-3-319-61108-2.(International Conference on Physics of Liquid Matter: Modern Problems).

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- ADNA02 KUDELA, Karel. On low energy cosmic rays and energetic particles near Earth On low energy cosmic rays and energetic particles near Earth. In Contributions of the Astronomical Observatory Skalnaté Pleso, 2016, vol. 46, p. 15-70. (0.389 - IF2015). (2016 - WOS, SCOPUS, NASA ADS). ISSN 1335-1842.

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1. [1.1] *MAGHRABI, Abdulrahman - ALANAZI, Mohammed - ALDOSARI, Abdulah - ALMUTERI, Mohammed. Small three-layer multiwire-based detector for cosmic ray muon variation studies at high geomagnetic rigidity cutoff. In JOURNAL OF ASTRONOMICAL TELESCOPES INSTRUMENTS AND SYSTEMS. ISSN 2329-4124, 2017, vol. 3, no. 2., Registrované v: WOS*

2. [1.1] *MISHEV, Alexander - POLUIANOV, Stepan - USOSKIN, Ilya. Assessment of spectral and angular characteristics of sub-GLE events using the global neutron monitor network. In JOURNAL OF SPACE WEATHER AND SPACE CLIMATE.*

ISSN 2115-7251, 2017, vol. 7., Registrované v: WOS

3. [1.1] MUSTAJAB, F. - BADRUDDIN. *Passage of the high-speed solar wind streams, their plasma/field properties, and resulting geomagnetic disturbances. In ADVANCES IN SPACE RESEARCH. ISSN 0273-1177, 2017, vol. 60, no. 1, pp. 144-152., Registrované v: WOS*

4. [1.2] MAGHRABI, A. H. - AL DAJANI, H. M. *On the relationship between cosmic rays detected by the KACST muon detector and solar wind speed and sunspot number. In Proceedings of Science, 2017-01-01., Registrované v: SCOPUS*

5. [1.2] *The effect of some meteorological parameters on the cosmic ray muons detected by KACST detector. In Proceedings of Science, 2017-01-01., Registrované v: SCOPUS*

ADNA03 KÚDELČÍK, Jozef - BURY, P. - HARDON, Štefan - KOPČANSKÝ, Peter - TIMKO, Milan. *Influence of Nanoparticles Diameter on Structural Properties of Magnetic Fluid in Magnetic Field. In Journal of Electrical Engineering, 2015, vol. 66, no. 4, p. 231-234. (0.378 - IF2014). (2015 - INSPEC, SCOPUS, WOS). ISSN 1335-3632.*

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1. [1.1] KOLTUNOWICZ, Tomasz N. - FEDOTOV, Aleksander K. - BONDARIEV, Vitalii - BOIKO, Oleksandr - TROYANCHUK, Igor - FEDOTOVA, Vera. *Electrical Properties of Ca₃Co₄O₉ and Ca₃Co_{3.9}Fe_{0.1}O₉ Ceramics. In PROCEEDINGS OF THE 2017 IEEE 7TH INTERNATIONAL CONFERENCE NANOMATERIALS: APPLICATION & PROPERTIES (NAP). ISSN 2306-580X, 2017., Registrované v: WOS*

2. [1.1] OKAL, Pawel - ROGALSKI, Przemyslaw - ZUKOWSKI, Pawel. *Visualization of the percolation phenomenon in two-dimensional arrangement of metallic spherical particles. In PHOTONICS APPLICATIONS IN ASTRONOMY, COMMUNICATIONS, INDUSTRY, AND HIGH ENERGY PHYSICS EXPERIMENTS 2017. ISSN 0277-786X, 2017, vol. 10445., Registrované v: WOS*

AFC Publikované príspevky na zahraničných vedeckých konferenciách

AFC01 HASSAN, A.H.A. - MIRONOV, O.A. - DOBBIE, A. - MORRIS, R.J.H. - HALPIN, J.E. - SHAH, V.A. - MYRONOV, M. - LEADLEY, D.R. - FEHER, Alexander - ČIŽMÁR, E. - GABÁNI, Slavomír - ANDRIEVSKII, V.V. - BERKUTOV, I.B. *Structural and Electrical Characterization of SiGe Heterostructures Containing a Pure Ge Strained Quantum Well. In ELNANO 2013 : 33rd International Scientific Conference Electronics and Nanotechnology, Kiev, Ukraine, 16 - 19 April 2013. - [S.l. : s.n.], 2013, p. 51-55. ISBN 978-1-4673-4672-6.(ELNANO 2013 : International Scientific Conference Electronics and Nanotechnology).*

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1. [1.2] LU, T. M. - HARRIS, C. T. - HUANG, S. H. - CHUANG, Y. - LI, J. Y. - LIU, C. W. *Effective g factor of low-density two-dimensional holes in a Ge quantum well. In Applied Physics Letters. ISSN 00036951, 2017-09-04, 111, 10., Registrované v: SCOPUS*

AFC02 MITRÓOVÁ, Zuzana - TOMAŠOVIČOVÁ, Natália - LANCZ, Gábor - KOVÁČ, Jozef - VÁVRA, Ivo - KOPČANSKÝ, Peter. *Preparation and characterization of carbon nanotubes functionalized by magnetite nanoparticles. In NANOCON 2010: 2nd international conference, October 12th - 14th 2010, Olomouc, Czech Republic : conference proceedings. - Ostrava : TANGER Ltd., 2010, p. 388-392. ISBN 978-80-87294-19-2.(NANOCON 2010 : International Conference).*

Citácie:

1. [1.1] SHAH, M.T. - ALVEROGLU, E. *In MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS. DEC 1*

2017, vol. 81, p. 393-399., Registrované v: WOS

2. [1.1] SORAN, M.L. - OPRIS, O. - LUNG, I. - KACSO, I. - PORAV, A.S. - STAN, M. In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. JUL 2017, vol. 24, no. 19, SI, p. 16396-16406., Registrované v: WOS

AFC03

TIMKO, Milan - KOPČANSKÝ, Peter - MARTON, Karol - TOMČO, Ladislav - HOLOTESCU, Sorin - STOIAN, Floriana - VÉKÁS, Ladislau. Magnetic fluid as cooling and insulation medium for high power transformers. In EEESD '10: 6th WSEAS International Conference on Energy, Environment, Ecosystems and Sustainable Development, Timisoara, Romania, October 21-23, 2010 : selected Topics in Energy, Environment, Sustainable Development and Landscaping [elektronický zdroj]. Editors Petru Andea, Stefan Kilyeni. - [S.l.] : WSEAS Press, 2010, p. 321-326. ISBN 978-960-474-237-0.(EEESD'10 : WSEAS International Conference on Energy, Environment, Ecosystems and Sustainable Development).

Citácie:

1. [1.2] KOJIMA, Hiroki - KONDO, Takafumi - HANAI, Masahiro - HAYAKAWA, Naoki. Improvement Mechanism of AC Breakdown Voltage of Insulating Oil with Dispersed Nanoparticles. In Electronics and Communications in Japan. ISSN 19429533, 2017-12-01, 100, 12, pp. 69-75., Registrované v: SCOPUS

2. [1.2] KOJIMA, Hiroki - KONDO, Takafumi - HANAI, Masahiro - HAYAKAWA, Naoki. Improvement mechanism of AC breakdown voltage of insulating oil with dispersed nanoparticles. In IEEE Transactions on Fundamentals and Materials. ISSN 03854205, 2017-01-01, 137, 2, pp. 101-106., Registrované v: SCOPUS

3. [1.2] RAFIQ, Muhammad - LI, Chengrong - LV, Yuzhen - YI, Kai - ARIF, Ikram. Breakdown characteristics of transformer oil based silica nanofluids. In Proceedings of the 2016 19th International Multi-Topic Conference, INMIC 2016, 2017-02-02., Registrované v: SCOPUS

AFC04

TOMORI, Zoltán - GARGALÍK, Radoslav - HRMO, Igor. Active Segmentation in 3D using Kinect Sensor. In WSCG 2012 : 20 th International Conference in Central Europe on Computer Graphics, Visualization and Computer Vision, June 26 -28, 2012, Plzen, Czech Republic. 20. Edited by Vaclav Skala. - Plzeň : Vaclav Skala - Unio Agency, 2012, p. 163-167. ISBN 978-80-86943-79-4.(WSCG 2012 : International conference in Central Europe on Computer Graphics, Visualization and Computer Vision).

Citácie:

1. [1.1] CHU, Phuong Minh - CHO, Seoungjae - FONG, Simon - PARK, Yong Woon - CHO, Kyungeun. 3D Reconstruction Framework for Multiple Remote Robots on Cloud System. In SYMMETRY-BASEL. ISSN 2073-8994, 2017, vol. 9, no. 4., Registrované v: WOS

2. [1.1] PHUONG CHU - CHO, Seoungjae - SIM, Sungdae - KWAK, Kiho - CHO, Kyungeun. A Fast Ground Segmentation Method for 3D Point Cloud. In JOURNAL OF INFORMATION PROCESSING SYSTEMS. ISSN 1976-913X, 2017, vol. 13, no. 3, pp..491-499., Registrované v: WOS

3. [1.1] PHUONG MINH CHU - CHO, Seoungjae - PARK, Yong Woon - CHO, Kyungeun. Fast point cloud segmentation based on flood-fill algorithm. In 2017 IEEE INTERNATIONAL CONFERENCE ON MULTISENSOR FUSION AND INTEGRATION FOR INTELLIGENT SYSTEMS (MFI), 2017, pp. 656-659., Registrované v: WOS

Príloha D

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

Doc. RNDr. Karol Flachbart, DrSc.

Názov semestr. predmetu: Makroskopické kvantové systémy II

Počet hodín za semester: 13

Názov katedry a vysokej školy: Univerzita Pavla Jozefa Šafárika v Košiciach, Ústav fyzikálnych vied

Doc. RNDr. Slavomír Gabáni, PhD.

Názov semestr. predmetu: Materiály v extrémnych podmienkach

Počet hodín za semester: 48

Názov katedry a vysokej školy: Technická univerzita v Košiciach, Fakulta elektrotechniky a informatiky

RNDr. Marián Jurčišin, PhD.

Názov semestr. predmetu: Matematická fyzika

Počet hodín za semester: 42

Názov katedry a vysokej školy: Univerzita Pavla Jozefa Šafárika v Košiciach, Katedra teóretickej fyziky a astrofyziky/Ústav fyzikálnych vied

RNDr. Marián Jurčišin, PhD.

Názov semestr. predmetu: Všeobecná teória relativity

Počet hodín za semester: 28

Názov katedry a vysokej školy: Univerzita Pavla Jozefa Šafárika v Košiciach, Katedra teóretickej fyziky a astrofyziky/Ústav fyzikálnych vied

Prof. Ing. Karel Kudela, DrSc.

Názov semestr. predmetu: Úvod do fyziky plazmy

Počet hodín za semester: 26

Názov katedry a vysokej školy: Univerzita Pavla Jozefa Šafárika v Košiciach, Katedra teoretickej fyziky a astrofyziky

RNDr. Ján Nemčík, CSc.

Názov semestr. predmetu: aplikovaná QCD pri vysokých energiách

Počet hodín za semester: 30

Názov katedry a vysokej školy: České vysoké učení technické v Praze, Česká republika, Katedra fyziky

Mgr. Pavol Szabó, CSc.

Názov semestr. predmetu: Experimentálne metódy

Počet hodín za semester: 4

Názov katedry a vysokej školy: Technická univerzita v Košiciach, FEI

RNDr. Mária Zentková, CSc.

Názov semestr. predmetu: Experimentálne metódy skúmania materiálov 2,

Počet hodín za semester: 15

Názov katedry a vysokej školy: Prešovská univerzita v Prešove, Katedra fyziky, matematiky a techniky

RNDr. Mária Zentková, CSc.

Názov semestr. predmetu: Moderne magneticke materialy

Počet hodín za semester: 52

Názov katedry a vysokej školy: Prešovská univerzita v Prešove, Katedra fyziky, matematiky a techniky

RNDr. Mária Zentková, CSc.

Názov semestr. predmetu: Štruktúrna analýza a spektroskopia

Počet hodín za semester: 16

Názov katedry a vysokej školy: Prešovská univerzita v Prešove, Katedra fyziky, matematiky a techniky

RNDr. Mária Zentková, CSc.

Názov semestr. predmetu: Základy fyziky magnetických materiálov

Počet hodín za semester: 24

Názov katedry a vysokej školy: Prešovská univerzita v Prešove, Katedra fyziky, matematiky a techniky

Semestrálne cvičenia:

RNDr. Hana Čenčariková, PhD

Názov semestr. predmetu: Matematika I

Počet hodín za semester: 6

Názov katedry a vysokej školy: Technická univerzita v Košiciach, Katedra aplikovanej matematiky a informatiky

RNDr. Hana Čenčariková, PhD

Názov semestr. predmetu: Vybrané kapitoly z matematiky

Počet hodín za semester: 2

Názov katedry a vysokej školy: Technická univerzita v Košiciach, Katedra aplikovanej matematiky a informatiky

Doc. RNDr. Slavomír Gabáni, PhD.

Názov semestr. predmetu: Experimentálne metódy

Počet hodín za semester: 4

Názov katedry a vysokej školy: Technická univerzita v Košiciach, Fakulta elektrotechniky a informatiky

RNDr. Marián Jurčišin, PhD.

Názov semestr. predmetu: Matematická fyzika

Počet hodín za semester: 14

Názov katedry a vysokej školy: Univerzita Pavla Jozefa Šafárika v Košiciach, Katedra teóretickej fyziky a astrofyziky/Ústav fyzikálnych vied

Prof. RNDr. Peter Samuely, DrSc.

Názov semestr. predmetu: Vybrané kapitoly z fyziky kondenzovaných látok

Počet hodín za semester: 48

Názov katedry a vysokej školy: Prírodovedecká fakulta UPJŠ, Ústav fyzikálnych vied

Mgr. Pavol Szabó, CSc.

Názov semestr. predmetu: Supravodivosť

Počet hodín za semester: 2

Názov katedry a vysokej školy: Technická univerzita v Košiciach, FEI

Semináre:

Terénne cvičenia:

Individuálne prednášky:

RNDr. Ivan Králik, CSc.

Názov semestr. predmetu: Úvod do Štandardného modelu

Počet hodín za semester: 2

Názov katedry a vysokej školy: Univerzita Pavla Jozefa Šafárika v Košiciach, Katedra jadrovej fyziky

RNDr. Natália Tomašovičová, CSc.

Názov semestr. predmetu: Experimentálne metódy v materialových vedách

Počet hodín za semester: 4

Názov katedry a vysokej školy: Technická univerzita v Košiciach, FEI

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
Česko	Ronald Langer	5			Dušan Bruncko	3
	Igor Strhársky	5			Dušan Bruncko	3
					Dušan Bruncko	3
					Hana Čenčariková	3
					Hana Čenčariková	3
					Hana Čenčariková	2
					Pavel Diko	2
					Peter Kopčanský	3
					Ivan Králik	3
					Ronald Langer	3
					Andrey Musatov	3
					Ľubomíra Regeciová	3
					Peter Skyba	4
					Igor Strhársky	3
					Jana Štetiarová	3
					Milan Timko	3
					Katarína Zakuťanská	3
					Katarína Zakuťanská	3
Čína					Zuzana Bednáriková	9
					Pavel Diko	10
					Diana Fedunová	9
					Miroslav Gančár	9
					Zuzana Gažová	9

					Petra Hajdová	10
					Ivan Škorvánek	8
Fínsko					Miroslav Marcin	7
					Ondrej Šofranko	7
Francúzsko					Jozef Kačmarčík	61
					Jozef Kačmarčík	31
					Peter Kopčanský	4
					Veronika Lacková	4
					Šimon Mackovjak	8
					Miroslav Marcin	15
					Milan Timko	4
					Natália Tomašovičová	4
Holandsko					Pavol Bobík	3
					Šimon Mackovjak	3
Lotyšsko					Peter Kopčanský	4
					Matúš Molčan	4
					Katarína Paulovičová	4
					Milan Timko	4
Maďarsko	Jozef Kováč	7			Peter Kopčanský	1
					Peter Kopčanský	1
					Peter Kopčanský	2
					Jozef Kováč	5
					Veronika Lacková	1
					Milan Timko	1
					Milan Timko	2
					Milan Timko	1

					Natália Tomašovičová	1
Nemecko					Peter Kopčanský	3
					Peter Kopčanský	5
					Veronika Lacková	5
					Šimon Mackovjak	4
					Jozefína Majorošová	5
					Matúš Mihálik	5
					Matúš Mihálik	5
					Blahoslav Pastirčák	5
					Peter Skyba	4
					Miloslav Straka	6
					Pavol Stríženec	11
					Milan Timko	5
					Milan Timko	3
					Katarína Zakuťanská	10
Poľsko					Peter Kopčanský	2
					Marián Mihalik	5
					Matúš Mihálik	5
					Michal Rajňák	2
					Milan Timko	2
Portugalsko					Peter Kopčanský	8
					Matúš Molčan	9
					Tomáš Tobiáš	9
Rakúsko					Karol Flachbart	3
					Slavomír Gabáni	3
Rumunsko					Iryna Antal	4

					Martina Koneracká	4
					Peter Kopčanský	4
					Peter Kopčanský	5
					Matúš Molčan	4
					Milan Timko	4
					Milan Timko	5
					Vlasta Závišová	4
Rusko					Veronika Gdovinová	7
					Marián Jurčišin	37
					Eva Jurčišinová	37
					Peter Kopčanský	9
					Martin Menkyna	68
					Andrey Musatov	7
					Ján Mušínský	87
					Blahoslav Pastirčák	7
					Blahoslav Pastirčák	89
					Richard Pinčák	88
					Michal Pudlák	64
					Michal Pudlák	19
					Michal Rajňák	8
					Milan Timko	9
					Tomáš Tobiáš	8
					Natália Tomašovičová	7
Srbsko					Peter Kopčanský	4
					Peter Kopčanský	2

					Milan Timko	2
					Milan Timko	4
Španielsko					Peter Kopčanský	5
					Andrey Musatov	5
					Michal Pudlák	16
					Katarína Šipošová	5
					Milan Timko	5
Švajčiarsko					Peter Kaliňák	22
					Peter Kaliňák	23
					Peter Kaliňák	21
					Ivan Králik	25
					Ivan Králik	18
					Ivan Králik	25
					Ingrid Kuľková	7
					Pavol Murín	25
					Pavol Murín	18
					Ján Mušínský	25
					Filoména Sopková	17
					Miloslav Straka	7
					Miloslav Straka	10
					Miloslav Straka	16
					Miloslav Straka	15
					Pavol Stríženec	9
					Pavol Stríženec	3
					Pavol Stríženec	15
					Pavol Stríženec	19
					Pavol Stríženec	13
					Pavol Stríženec	5

					Pavol Stríženec	7
					Pavol Stríženec	18
					Pavol Stríženec	7
					Jozef Špalek	30
					Jozef Špalek	23
Taiwan	Natália Tomašovičová	30			Zuzana Bednáríková	6
					Diana Fedunová	6
					Zuzana Gažová	6
					Peter Kopčanský	12
					Peter Kopčanský	7
					Jozefína Majorošová	16
					Andrey Musatov	12
					Katarína Šipošová	12
					Katarína Šipošová	12
					Milan Timko	7
					Milan Timko	12
					Natália Tomašovičová	14
Taliansko					Martina Koneracká	6
					Peter Kopčanský	4
					Peter Kopčanský	5
					Katarína Šipošová	3
					Milan Timko	4
					Milan Timko	5
					Vlasta Závišová	6
Ukrajina					Peter Kopčanský	3
					Peter	5

					Kopčanský	
					Peter Kopčanský	3
					Andrey Musatov	6
					Andrey Musatov	3
					Katarína Paulovičová	3
					Katarína Šipošová	6
					Milan Timko	5
					Milan Timko	3
					Milan Timko	3
USA					František Andrejka	59
Počet vyslaní spolu	4	47			163	1733

(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
Bulharsko	Assoc. prof. Nina Hristova Nikolova	7				
Česko	Ing. Jaroslav Chum, PhD.	4				
	Ing. Jaroslav Chum, PhD.	3				
	Ing. Jiří Baše	4				
	Ing. Jiří Baše	3				
Čína					Huang Simin	8
					Qian JUN	8
Poľsko	Dr. Hab. Lukasz Laskowski	3				
	Dr. Magdalena Fitta	3				
	Dr. Magdalena Laskowska	3				
Taiwan					Chien-Yu	5

					Lin	
					Josephine W. Wu	5
					prof. Steven S.-S. Wang	5
					Su-Chun How	5
Ukrajina	Dr. Oleksii Dudnyk	6				
	Dr. Sergii Burylov	6				
Vietnam	Dr. Nguyen Trung Hieu	6				
	prof. Dr. Do Hung Manh	6				
Počet prijatí spolu	12	54			6	36

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

Krajina	Názov konferencie	Meno pracovníka	Počet dní
Belgicko	BDS 2018	Michal Rajňák	7
Česko	Czech-Polish-Slovak Optical Conference	Jana Kubacková	5
		Zoltán Tomori	5
	PCFES 2018	Marián Mihalik	5
Dánsko	MAGMEET 2018	Iryna Antal	6
		Andrea Antošová	5
		Zuzana Gažová	5
		Veronika Gdovinová	5
		Iryna Khmara	5
		Martina Koneracká	6
		Peter Kopčanský	4
		Jozefína Majorošová	5
		Milan Timko	4
		Vlasta Závišová	6
Francúzsko	CSHRM	Peter Samuely	6
		Pavol Szabó	6
	SIT 2018	Michal Kopčík	6
		Pavol Szabó	6
	THERMEC 2018	Ivan Škorvánek	7
Grécko	ICNFP 2018	Peter Kaliňák	13
	NN18	Ivan Baťko	8
		Marianna Baťková	8
India	BMN 2018	Peter Kopčanský	5
		Milan Timko	5
Japonsko	KINKEN WAKATE 2018	Ivan Škorvánek	7
	QFS 2018	Marcel Človečko	9
Kórejská republika	IcAUMUS 2018	Ivan Škorvánek	8
Litva	NGP 2018	Zuzana Bednáriková	5
		Diana Fedunová	5

		Miroslav Gančár	5
		Zuzana Gažová	5
		Vladimír Vaník	5
Maďarsko	CCCH 2018	Matúš Molčan	1
Nemecko	European XFEL	Daša Lučanská	5
		Katarína Zakuťanská	5
Poľsko	CLC 2018	Peter Kopčanský	5
		Milan Timko	5
	WSWQA	Peter Kopčanský	2
		Milan Timko	2
	XIX ISC	Jozef Kováč	3
Portugalsko	WG1 and WG3	Peter Samuely	10
Rakúsko	SCTE 2018	Gabriel Pristáš	5
Rusko	MQFT 2018	Martin Menkyna	7
	SSHPP 2018	Karol Flachbart	9
		Slavomír Gabáni	9
Slovinsko	ECIS 2018	Marián Sedlák	6
Švajčiarsko	JEM-EUSO Meeting	Pavol Bobík	5
		Šimon Mackovjak	7
Taiwan	YABEC 2018	Zuzana Bednáriková	3
		Diana Fedunová	3
		Zuzana Gažová	3
Taliansko	AtmoHEAD 2018	Šimon Mackovjak	5
	CHAOS 2018	Martin Menkyna	5
	ICTP	Michal Kopčík	7
		Peter Samuely	5
		Ondrej Šofranko	7
	Quark Matter 2018	Peter Kaliňák	9
Ukrajina	PLMMP	Peter Kopčanský	2
		Katarína Šipošová	6
		Milan Timko	2
USA	ICM 2018	Karol Flachbart	10
	TMS 2018	Ivan Škorvánek	8
Vietnam	IWAMSN 2018	Branislav Kunca	9
		Ivan Škorvánek	9
Spolu	34	64	371

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

Skratky použité v tabuľke C:

AtmoHEAD 2018 - ATmospheric MONitoring for High Energy Astroparticle Detectors
 BDS 2018 - 10th Conference on Broadband Dielectric Spectroscopy and its Applications
 BMN 2018 - International Conference on Biomedical applications of Magnetic Nanoparticles
 CCCH 2018 - 11th Conference on Colloid Chemistry
 CHAOS 2018 - The 11th CHAOS 2018 International Conference
 CLC 2018 - XXII Conference on Liquid Crystals
 CSHRM - Coherent superconducting hybrids and related materials, Les Arcs
 Czech-Polish-Slovak Optical Conference - The 21st Czech-Polish-Slovak Optical Conference
 ECIS 2018 - European Colloid and Interface Society
 European XFEL - 2018 European XFEL Users Meeting and Satellite Meetings, Hamburg
 IcAUMUS 2018 - International Conference of Asian Union of Magnetic Societies

ICM 2018 - International Conference on Magnetism
ICNFP 2018 - 7th International Conference on Frontiers of New Physics
ICTP - International Conference on Multi-Condensate Superconductivity in Solids and Ultra-Cold Gases
IWAMSN 2018 - The 9th International Workshop on Advanced Materials Science and Nanotechnology
JEM-EUSO Meeting - 23rd JEM-EUSO Collaboration Meeting
KINKEN WAKATE 2018 - Symposium of 30th Anniversary of Nano Crystalline Soft Magnetic Alloys
MAGMEET 2018 - 12th International Conference on the Scientific and Clinical Applications of Magnetic Carriers
MQFT 2018 - Models in Quantum Field Theory 2018
NGP 2018 - 4th Symposium on Non-Globular proteins
NN18 - 15th International Conference on Nanosciences & Nanotechnologies
PCFES 2018 - 12th Prague Colloquium on f-Electron Systems
PLMMP - 8th International Conference Physics Liquid Matter: Modern Problems
QFS 2018 - Quantum Fluids and Solids 2018
Quark Matter 2018 - Quark Matter 2018
SCTE 2018 - 21st International Conference on Solid Compounds of Transition Elements, Vienna
SIT 2018 - International Workshop on the Superconductor-Insulator Transition and Low-Dimensional Superconductors 2018
SSHPP 2018 - XVII. conference of Solid state & High pressure problems
THERMEC 2018 - International Conference on Processing and Manufacturing of Advanced Materials
TMS 2018 - 147-th Annual Meeting and Exhibition, Phoenix
WG1 and WG3 - School on quantum materials and workshop on vortex behavior in unconventional superconductors
WSWQA - 47th Winter School on Wave and Quantum Acoustics, Szczyrk
XIX ISC - New Technologies and Achievements in Metallurgy, Material Engineering, Production Engineering and Physics
YABEC 2018 - 24th Symposium of Young Asian Biological Engineers Community

Príloha F**Vedecko-popularizačná činnosť pracovníkov organizácie SAV**

Meno	Spoluautori	Typ¹	Názov	Miesto zverejnenia	Dátum alebo počet za rok
Ing. Ján Baláž, PhD.		TL	K Merkúru letíme, lebo je to náš domov	SME http://space.saske.sk/results/popul/2018-10-17-SME.pdf	17.10.2018
Ing. Ján Baláž, PhD.		PB	Košický vesmírny program	Gymázium M.R.Štefánika, Košice	3.10.2018
Ing. Ján Baláž, PhD.		PB	Vedecký brloh - Dobrodružná honba za kométou	Elektrárňa Piešťany https://www.facebook.com/pg/ElektrarnaPiešťany/photos/?tab=album&album_id=2228774783812288	17.11.2018
Ing. Ján Baláž, PhD.		RO	Vesmírna misia k planéte Merkúr	RTVS-SRo https://www.rtv.sk/clanok/178049	19.10.2018
Ing. Ján Baláž, PhD.	Gabriela Angibaud	RO	Nočná pyramída - vesmír	RTVS-SRo https://www.rtv.sk/radio/archiv/11436/1026572	16.11.2018
Ing. Ján Baláž, PhD.	Jozef Demeter	TV	Misia Merkúr	TV Markíza http://space.saske.sk/results/popul/2018-10-14-markiza.mp4	14.10.2018
Ing. Ján Baláž, PhD.	Jozef Demeter, Marián Ujházy, Pavol Rapavý, Daniela Rapavá	TV	Vesta na oblohe	TV Markíza http://space.saske.sk/results/popul/2018-07-16-markiza.mp4	16.7.2018
Ing. Ján Baláž, PhD.	Jozef Demeter, Pavol Bobík	TV	Pristáli sme na Marse	TV Markíza http://space.saske.sk/results/popul/2018-11-27-markiza.mp4	27.11.2018
Ing. Ján Baláž, PhD.	Jozef Demeter, Rudolf Andoga	TV	Čínska vesmírna stanica padne k zemi.	TV Markíza, http://space.saske.sk/results/popul/2018-03-08-markiza.mp4	8.3.2018
Ing. Ján Baláž, PhD.	Mária Čigášová	RO	Vyznania (misia BepiColombo)	Rádio Lumen https://www.lumen.sk/archiv-play/103115	28.10.2018
Ing. Ján Baláž, PhD.	Martin Strážinec, Juraj Tóth	TV	Experiment - Hrozí nám zrážka s vesmírnym telesom ?	RTVS - STV2 https://www.rtv.sk/telvizia/archiv/13668	13.12.2018
Ing. Ján Baláž, PhD.	Michal Havran, Jakub Kapuš, Bohuslav Chrenko	TV	Večera s Havranom - Všetci na Mars	RTVS-STV2 https://www.rtv.sk/telvizia/archiv/13042/151786	20.3.2018
Ing. Ján Baláž, PhD.	Otakar Horák	TL	Kométu tvorí ľahká načuchraná hmota	Denník N http://space.saske.sk/results/popul/2018-02-08-DennikN.pdf	8.2.2018
Ing. Ján Baláž, PhD.	Otakar Horák	TL	Kozmický inžinier: Osídlit' iné telesá je ťažké, jednoduchšie je starať sa o život na	Denník N. https://dennikn.sk/1013466/kozicky-inzinier-osidlit-ine-	5.2.2018

			Zemi	telesa-je-tazke-jednoduchsie-je-starat-sa-o-zivot-na-zemi/	
Ing. Ján Baláž, PhD.	Otakar Horák	TL	NASA nie je len o pristáti človeka na Mesiaci.	Denník N. https://dennikn.sk/1239338/nasa-nie-je-len-o-pristati-cloveka-na-mesiaci-pribeh-vesmirnej-agentury-ktora-60-rokov-skuma-vesmir-a-zem/	27.9.2018
Ing. Ján Baláž, PhD.	P. Valko	PB	Kozmické vedecké prístroje / Fundamentals of Space Scientific Instruments	FEI-STU Bratislava / BC300 https://fmph.uniba.sk/fileadmin/fmfi/aktuality/kalendar/201718/vedecke_pristroje.jpg	27.3.2018
Ing. Ján Baláž, PhD.	Patricia Kordiaková, Vladimír Lichvár	TV	ŠTÚDIO TA3: J. Baláž o práci Slovákov na misii k Merkúru	TV-TA3 https://www.ta3.com/lanok/1140089/studio-ta3-j-balaz-o-praci-slovakov-na-misii-k-merkuru.html	1.11.2018
Ing. Ján Baláž, PhD.	Pavol Valko	PB	Misia Rosetta	FEI STU Bratislava	3.7.2018
Ing. Ján Baláž, PhD.	Peter Vršanský	PB	Košický kozmický výskum (Sústredenie víťazov projektu Petržalská Superškola)	Hotel Academia, Stará Lesná	30.5.2018
Ing. Ján Baláž, PhD.	Renáta Zelná	TL	Konštruktér o Falcon Heavy: Človeku sa nechce veriť, že to je realita a nie sci-fi	SME https://tech.sme.sk/c/20755682/konstrukter-o-falcon-heavy-cloveku-sa-nechce-verit-ze-to-je-realita-a-nie-sci-fi.html	8.2.2018
Ing. Ján Baláž, PhD.	Tomáš Kolár	TL	Družicou po prvý raz zachytili vesmírny odpad	Denník N https://dennikn.sk/1238093/druzicou-po-prvy-raz-zachytili-vesmirny-odpad/	24.9.2018
Ing. Ján Baláž, PhD.	Tomáš Vasilko	TL	Na Veľkú noc dopadne na Zem čínska vesmírna stanica, nevie sa, kedy ani kde	Denník N https://dennikn.sk/1080718/na-velku-noc-dopadne-na-zem-cinska-vesmirna-stanica-nevie-sa-kedy-ani-kde/	29.3.2018
Ing. Ján Baláž, PhD.	Tomáš Vasilko	TL	Sonda prvýkrát preskúma vnútro Marsu	Denník N https://dennikn.sk/1300380/sonda-prvykrat-preskuma-vnutro-marsu-ak-zvladne-sedem-minut-hrozy-pri-pristavani/	23.11.2018
Ing. Ján Baláž, PhD.	Veronika Haberová	TV	Ocenený vedec J. Baláž o unikátnych projektoch kozmického výskumu	TV Košice:Dnes https://kosicednes.sk/tv/oceneny-vedec-j-balaz-o-unikatnych-projektoch-kozmickeho-vyskumu/	2.2.2018
RNDr. Pavol Bobík, PhD		TV	Reportáž: Hayabusa 2	TV Markíza Televízne noviny	28.6.2018

RNDr. Pavol Bobík, PhD		TV	Reportáž: Lovce planét	TV Markíza Televízne noviny	1.10.2018
RNDr. Pavol Bobík, PhD		TV	Reportáž: Pristáli sme na Marse	TV Markíza Televízne noviny	27.11.2018
RNDr. Pavol Bobík, PhD		TV	Reportáž: TESS	TV Markíza Televízne noviny	18.4.2018
RNDr. Pavol Bobík, PhD		TV	Reportáž: Záhadný objekt (Oumuamua)	TV Markíza Televízne noviny	14.11.2018
Doc. RNDr. Dušan Bruncko, CSc.	-	TL	Budovanie GRID farmy	http://vedanadosah.cvtsr.sk/budovanie-grid-farmy	10.10.2018
Doc. RNDr. Dušan Bruncko, CSc.	-	PB	CERN a~ATLAS experiment na urychlovaci	Revuca, gymnázium	4.10.2018
Doc. RNDr. Dušan Bruncko, CSc.	-	PB	CERN a~ATLAS experiment na urychlovaci	Revuca, Muzeu "Prve slovenske gymnázium" v rámci projektu vedecka kaviaren	4.10.2018
Doc. RNDr. Dušan Bruncko, CSc.	-	PB	Svet elementarnych castic	zakladna skola, Sedlice	6.12.2018
Doc. RNDr. Slavomír Gabáni, PhD.		PB	Vedecký brloh	Štátna vedecká knižnica v Prešove	7.11.2018
Doc. RNDr. Slavomír Gabáni, PhD.	Gabriel Pristáš	iné	Noc výskumníka, experimenty "Vákuové dobrodružstvá"	Optima Košice	28.9.2018
Doc. RNDr. Slavomír Gabáni, PhD.	Pavol Szabó, Zuzana Vargaesťoková	iné	Víkend s SAV	Primaciálne námestie Bratislava	8.9.2018
RNDr. Jozef Kačmarčík, PhD		PB	Popularizačná prednáška s názvom: Vákuum - prednáška o "ničom" a experimenty s "ničím"?	Konferencia Kalibračného združenia SR, Kongresová sála Alexandra Hotel, Púchov	25.4.2018
RNDr. Jozef Kačmarčík, PhD		PB	Popularizačná prednáška: Fyzika nízkych teplôt a supravodivosť	ZŠ Československej armády 15, Moldava nad Bodvou	14.6.2018
RNDr. Ivan Králik, CSc.		PB	K počiatkom Vesmíru: Cesta tam a späť - Kvarkovo-gluónová plazma	Hands on Particle Physics Masterclasses, Prešovská univerzita, Prešov	23.2.2018
RNDr. Ivan Králik, CSc.		PB	Pohľady do mikrosвета	Hands on Particle Physics International Masterclasses, UPJŠ Košice	7.3.2018
Ing. Ingrid Kul'ková		TL	Tlačová správa	https://www.kosiceonline.sk/zena-v-kolektive-fyzikov-sav-zvykla-som-si-ze-sa-muzi-vyjadruju-exaktne-na-klebety-si-nepotrpim	31.12.2018
Ing. Ingrid Kul'ková	Bruncko, Urban	iné	Praha-Olomouc-Bratislava-Kosice ATLAS workshop	https://indico.cern.ch/event/699787/	2018

RNDr. Jozefína Majorošová, PhD.		iné	Noc výskumníkov	http://www.nocvyskumnikov.sk/program/mesto-košice.html	28.9.2018
Ing. Matúš Molčan, PhD.		iné	Noc výskumníkov	http://www.nocvyskumnikov.sk/	28.9.2018
Ing. Matúš Molčan, PhD.	Zuzana Molčanová	PB	Vedecký brloh: Zábavný magnetizmus	https://www.facebook.com/events/987488568082191/	23.6.2018
RNDr. Marián Putiš, PhD.	Pavol Bobík, Blahoslav Pastirčák	iné	Noc Výskumníkov	Atrium Optima Košice	28.9.2018
Prof. RNDr. Peter Samuely, DrSc.		RO	vystúpenia pre médiá	RTVS, komerčné rádiá	2018
Prof. RNDr. Peter Samuely, DrSc.		TV	Vystúpenia pre médiá	RTVS, komerčné TV	2018
Ing. Miloslav Straka		PB	LHC gridová farma IEPSAS-Košice	https://indico.openbrain.sk/event/29/contributions/71/attachments/9/15/slovak_T2F_2018.pdf	27.9.2018
Ing. Miloslav Straka	Ingrid Kul'ková	PB	Gridová infraštruktúra a jej využívanie	Ústav Experimentálnej Fyziky SAV Košice	23.3.2018
Ing. Miloslav Straka	RNDr. Martin Vaľa, PhD	PB	Hodnotenie výsledkov , gridová farma IEPSAS-Košice a SPŠE Košice	SPŠE Košice	26.4.2018
Ing. Miloslav Straka	RNDr. Martin Vaľa, PhD	RO	Radio Kosice - rozhovor o gride a gridových farmach	Radio Kosice online	16.11.2018
Mgr. Pavol Szabó, CSc.		iné	Noc výskumníkov 2018 - vedecký koordinátor	OC Atrium Optima	28.9.2018
Mgr. Pavol Szabó, CSc.		PB	Svet pri absolútnej nule	Letný festival - Gombasek	18.7.2018
Mgr. Pavol Szabó, CSc.		PB	Víkend s SAV	Primaciálne námästie, Bratislava	8.9.2018
RNDr., Ing. Katarína Šipošová, PhD.	Dana Švarcbergerová	iné	Európska noc výskumníkov, 13-ty ročník	http://www.nocvyskumnikov.sk/	28.9.2018
RNDr. Zuzana Vargaštoková, PhD	S. Gabáni, P. Szabó	PB	Víkend so SAV	Bratislava	8.9.2018
RNDr. Mária Zentková, CSc.		iné	Vedecký brloh na Vandrovke -Chémia. Štátna vedecká knižnica Prešov.	http://www.svkpo.sk/sk/novinky/?news_action_type=detail&news_id=197&news_archive=1	14.6.2018
RNDr. Mária Zentková, CSc.	Slavomír Gabáni, Miroslav Marcin	iné	Vedecký brloh na Vandrovke -Fyzika. Štátna vedecká knižnica Prešov.	http://www.tyzdenvedy.sk/buxus/generate_page.php?page_id=12442	7.11.2018
RNDr. Pavol Bobík, PhD		iné	Európska noc výskumníkov	Obchodné centrum Optima Košice	1

Doc. RNDr. Dušan Bruncko, CSc.	-	TL	Experiment ATLAS	http://vedanadosah.cvti.sk/experiment-atlas	1
Mgr. Iryna Khmara		iné	Noc Výskumníkov	http://www.nocvyskumnikov.sk/program/mesto-košice.html	1
Prof. Ing. Karel Kudela, DrSc.	Ján Feranec	TL	článok 16.1.2018	Pravda	1
Ing. Zuzana Mitróová, PhD		iné	Noc výskumníkov	Optima Košice	1
RNDr. Gabriel Pristáš, PhD.		PB	Noc výskumníkov	OC Optima	1
Mgr. Pavol Szabó, CSc.		iné	Košická univerzita vševedy - v maď. jazyku - organizovanie prednášok	Rovás Majel- centrum, Alžbetina 42, Košice	4
RNDr. Natália Tomašovičová, CSc.	Gabriela Glinská, Kristína Krajčíková, Katarína Zakuťanská, Oleg Shylenko, Vladimír Komanický, Vladimíra Tomečková	iné	Noc výskumníka	OC Optima, Košice	1
RNDr. Zuzana Vargaštoková, PhD	M. Marcin, M. Človečko	PB	Noc výskumníkov	Optima, Košice	1
RNDr. Mária Zentková, CSc.		iné	Vedecký brloh v Košiciach	https://www.facebook.com/Vedeckybrloh/	10
RNDr. Mária Zentková, CSc.		iné	Vedecký Brloh v Piestanoch	https://www.facebook.com/ElektrarnaPiestany/	10
RNDr. Mária Zentková, CSc.	Miroslav Marcin	iné	Krotitelia Myšlienok -Otvorená Akadémia - Kreatívne družiny	Dohoda o spolupraci	5

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