

**Fyzikálny ústav SAV**



**Správa o činnosti organizácie SAV  
za rok 2019**

Bratislava  
január 2020

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# 1. Základné údaje o organizácii

## 1.1. Kontaktné údaje

**Názov:** Fyzikálny ústav SAV

**Riaditeľ:** Doc. Mgr. Mário Ziman, PhD.

**Zástupca riaditeľa:** Mgr. Andrej Gendiar, PhD.

**Vedecký tajomník:** Mgr. Erik Bartoš, PhD.

**Predseda vedeckej rady:** Ing. Štefan Gmuca, CSc.

**Členka Snemu SAV:** RNDr. Katarína Gmucová, CSc.

**Adresa:** Dúbravská cesta 9, 845 11 Bratislava 45

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**E-mail:** secretary.fusav@savba.sk

### Názvy a adresy organizačných zložiek a detašovaných pracovísk:

Organizačné zložky: nie sú

Detašované pracoviská:

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

### Vedúci organizačných zložiek a detašovaných pracovísk:

Organizačné zložky: nie sú

Detašované pracoviská:

- **Spoločné pracovisko EIÚ a FÚ SAV**  
Ing. Rudolf Senderák, Piešťany

### Členovia Snemu SAV za organizačné zložky:

RNDr. Katarína Gmucová, CSc. (predsedníčka Snemu SAV, predsedníčka 1. komory Snemu SAV)

**Typ organizácie:** Príspevková od roku 1997

## 1.2. Údaje o zamestnancoch

Tabuľka 1a Počet a štruktúra zamestnancov

Štruktúra zamestnancov	K	K		K do 35 rokov		F	P	T	O
		M	Ž	M	Ž				
<b>Celkový počet zamestnancov</b>	118	89	29	23	9	107	76.36	60.01	0
<b>Vedeckí pracovníci</b>	75	66	9	8	2	68	56.49	56.24	0
<b>Odborní pracovníci VŠ</b> (výskumní a vývojoví zamestnanci <sup>1</sup> )	22	17	5	15	5	20	2.87	2.77	0
<b>Odborní pracovníci VŠ</b> (ostatní zamestnanci <sup>2</sup> )	7	0	7	0	1	5	5.26	1	0
<b>Odborní pracovníci ÚS</b>	14	6	8	0	1	14	11.74	0	0
<b>Ostatní pracovníci</b>	0	0	0	0	0	0	0	0	0

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

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

*K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2019 (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 31.12.2019 (bez riadnej materskej dovolenky, zamestnancov pôsobiacich v zahraničí v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zboroch)*

*P – celoročný priemerný prepočítaný počet zamestnancov*

*T – celoročný priemerný prepočítaný počet riešiteľov projektov*

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

*M, Ž – muži, ženy*

Tabuľka 1b Štruktúra vedeckých pracovníkov (kmeňový stav k 31.12.2019)

Rodová skladba	Pracovníci s hodnosťou				Vedeckí pracovníci v stupňoch		
	DrSc.	CSc./PhD.	prof.	doc.	I.	II.a.	II.b.
<b>Muži</b>	14	52	4	3	16	33	17
<b>Ženy</b>	1	9	0	0	1	2	6

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

Veková štruktúra (roky)	< 31		31-35		36-40		41-45		46-50		51-55		56-60		61-65		> 65	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
<b>Muži</b>	14	1.9	7	6.9	10	9.6	10	6.8	3	3.0	2	0.8	10	10.0	9	9.0	10	7.0
<b>Ženy</b>	4	0.2	3	2.7	2	1.5	1	0.1	0	0.0	0	0.0	0	0.0	2	2.0	1	0.5

A - Prepočet bez zohľadnenia úväzkov zamestnancov

B - Prepočet so zohľadnením úväzkov zamestnancov

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2019

	<b>Kmeňoví zamestnanci</b>	<b>Vedeckí pracovníci</b>	<b>Riešitelia projektov</b>
<b>Muži</b>	48.2	50.6	47.2
<b>Ženy</b>	44.5	46.1	39.8
<b>Spolu</b>	47.3	50.1	46.1

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

Dňom 1. októbra 2019 sa ujal funkcie riaditeľa Fyzikálneho ústavu SAV doc. Mgr. Mário Ziman, PhD. na štvorročné obdobie. Nastúpil po RNDr. Stanislavovi Hlaváčovi, CSc., ktorý bol vo funkcii dve funkčné obdobia.

## 2. Vedecká činnosť

### 2.1. Domáce projekty

Tabuľka 2a Domáce projekty riešené v roku 2019

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	20	2	166582	160547	-	-	1724	-
2. Projekty APVV	13	9	-	-	384724	373962	-	117472
3. Projekty OP ŠF	0	0	-	-	-	-	-	-
4. Projekty SASPRO	0	0	-	-	-	-	-	-
5. Iné projekty (FM EHP, ŠPVV, Vedecko-technické projekty, ESF, na objednávku rezortov a pod.)	0	1	-	-	-	-	-	47000

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

Tabuľka 2b Domáce projekty podané v roku 2019

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2019	-		
2. Projekty výziev OP ŠF podané r. 2019	Bratislava		
	Regióny		

## 2.2. Medzinárodné projekty

### 2.2.1. Medzinárodné projekty riešené v roku 2019

Tabuľka 2c Medzinárodné projekty riešené v roku 2019

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		
<b>1. Projekty 7. RP EÚ a Horizont 2020</b>	0	1	-	-	-	-	5316	69728
<b>2. Projekty ERA.NET, ESA, JRP</b>	0	2	-	-	-	-	37500	-
<b>3. Projekty COST</b>	1	1	-	3797	-	-	3797	-
<b>4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné</b>	2	1	633	633	91122	16768	12500	-
<b>5. Projekty v rámci medzivládnych dohôd</b>	0	9	-	-	-	-	-	137624
<b>6. Bilaterálne projekty MAD</b>	0	0	-	-	-	-	-	-
<b>7. Bilaterálne projekty ostatné</b>	0	0	-	-	-	-	-	-
<b>8. Podpora MVTs z národných zdrojov okrem SAV (APVV a iné)</b>	0	0	-	-	-	-	-	-
<b>9. Iné projekty</b>	0	0	-	-	-	-	-	-

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

## 2.2.2. Medzinárodné projekty Horizont 2020 podané v roku 2019

Tabuľka 2d Počet projektov Horizont 2020 v roku 2019

	A	B
<b>Počet podaných projektov Horizont 2020</b>		

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

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

## 2.2.3. Zámery na čerpanie štrukturálnych fondov EÚ v ďalších výzvach

**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

#### Kulombovské systémy v tepelnej rovnováhe

**Autor: Ladislav Šamaj**

V sérii prác študujeme tepelnú rovnováhu systémov nabitých častíc interagujúcich prostredníctvom kulombovského potenciálu.

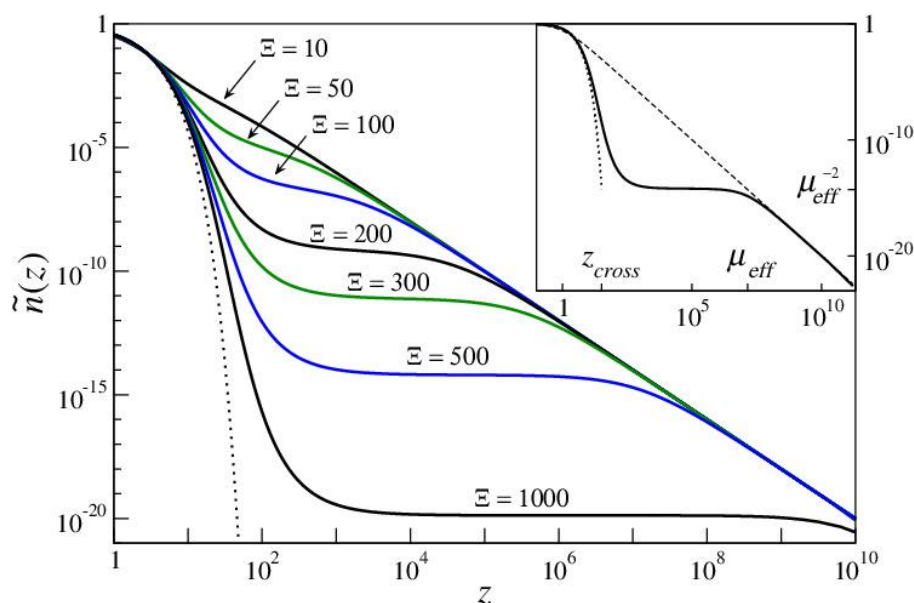
Pri ponorení makromolekúl (koloidov) do vody sa z ich povrchov uvoľňujú nabité častice. Cieľom väčšiny predložených prác je popis elektrickej dvojvrstvy v okolí koloidu a efektívnej interakcie medzi koloidmi sprostredkovanej pohyblivými časticami, špeciálne pochopenie anomálneho

príťahovania rovnako nabitých koloidov pri nízkych teplotách. V práci [1] kombinujeme selfkonzistentnú Poissonovu-Boltzmannovu teóriu (platnú pri vysokých teplotách) s koncepciou korelačnej diery (platnou pri nízkych teplotách). Na základe tejto kombinácie teórií popisujeme profil hustoty častíc indukovaný stenou s homogénnou povrchovou hustotou náboja ako interpoláciu medzi rýchlym exponenciálnym poklesom pre malé vzdialenosti od steny a pomalým mocninným poklesom pre veľké vzdialenosti cez rozsiahle plató v hustote (Obr.1).

Pre určenie efektívnej interakcie medzi koloidmi pri nízkych teplotách je vhodné vychádzať zo základného stavu systému, tzv. Wignerovej dvojvrstvy, a uvažovať harmonické výchylky častíc [3]. Analýza polydisperzných zmesí častíc s rôznymi nábojmi v oblasti vysokých teplôt bola témou práce [4]. Pre dve rovnobežné asymetricky nabité steny v určitej vzdialenosti od seba bol skonštruovaný fázový diagram, ktorý obsahuje prekursor kvázikryštálov [5]. Presné riešenia v oblasti vysokých teplôt boli v minulosti získané len v prípade homogénneho rozloženia náboja na povrchu koloidu, čo je nerealistické. V práci [6] odvádzame presné riešenia rovnovážnej štatistiky nábojov v okolí stien s periodicky modulovaným povrchovým nábojom.

Rovnovážna štatistická mechanika dvojrozmerných kulombovských systémov je presne riešiteľná nielen v limite vysokých teplôt, ale taktiež pre špecifickú teplotu kedy je model mapovateľný na systém voľných fermiónov. Špecifikom časti prezentovaných prác je skutočnosť, že sme v nich získali presné výsledky pre ľubovoľnú teplotu. Jedná sa konkrétne o odvodenie univerzálnej logaritmickkej korekcie grandpotenciálu na konečný objem [2], určenie dôležitej momentovej charakteristiky nábojového profilu indukovaného okolo cudzieho náboja v plazme [7] a nájdenie symetrie korelačných funkcií pre malé vzdialenosti nabitých častíc [8].





Obr. 1: Hustota častíc  $n$  ako funkcia vzdialenosti  $z$  od nabitej steny, pre rôzne hodnoty väzbovej konštanty  $\Xi$  nepriamo úmernej teplote.

1. I. Palaia, M. Trulsson, L. Šamaj, E. Trizac: A correlation-hole approach to the electric double layer with counter-ions only, *Mol. Phys.* **116** (2018) 3134-3146 [2017: 1.704 - IF]
2. L. Šamaj: Logarithmic finite-size correction in non-neutral two-component plasma on sphere, *J. Stat. Phys.* **173** (2018) 42-53 [2017: 1.496 - IF]
3. L. Šamaj, M. Trulsson, E. Trizac: Strong-coupling theory of counterions between symmetrically charged walls: from crystal to fluid phases, *Soft Matter* **14** (2018) 4040-4052 [2017: 3.709 - IF]
4. M. Trulsson, E. Trizac, L. Šamaj: Planar screening by charge polydisperse counterions, *J. Phys.: Condens. Matter* **30** (2018) 035001, 1-16 [2017: 2.617 - IF]
5. M. Antlanger, G. Kahl, M. Mazars, L. Šamaj, E. Trizac: The asymmetric Wigner bilayer, *J. Chem. Phys.* **149** (2018) 244904, 1-35 [2017: 2.843 - IF]
6. L. Šamaj, E. Trizac: Electric double layers with surface charge modulations: Exact Poisson-Boltzmann solutions, *Phys. Rev. E* **100** (2019) 042611, 1-17 [2018: 2.353 - IF]
7. L. Šamaj: Fourth moment of the charge density induced around a guest charge in two-dimensional jellium, *J. Stat. Phys.* **175** (2019) 1066-1079 [2018: 1.513 - IF]
8. L. Šamaj: Short-distance symmetry of pair correlations in two-dimensional jellium, *J. Stat. Phys.*, doi.org/10.1007/s10955-019-02430-0

Ďalej bez udania poradia:

### Optimálne perfektné pravdepodobnostné ukladanie a vyvolanie unitárnych procesov

**Autori:** Michal Sedlák, Mário Ziman, Alessandro Bisio a Sanjaye Ramgoolam

Skúmame otázku ukladania kvantovej dynamiky do kvantovej pamäte. Navrhujeme optimálny protokol pre  $N \rightarrow 1$  pravdepodobnostné ukladanie a vyvolanie unitárnych procesov na  $d$ -rozmerných kvantových systémoch. Ak zariadením vykonávajúcim neznámy unitárny proces môžeme pôsobiť najviac na  $N$  vstupov tak ľubovoľný experimentálny postup - protokol si možno predstaviť ako adaptívny protokol v ktorom  $k$ -ty kvantový stav vstupujúci do unitárneho procesu môže závisieť od všetkých predošlých vstupov i výstupov.

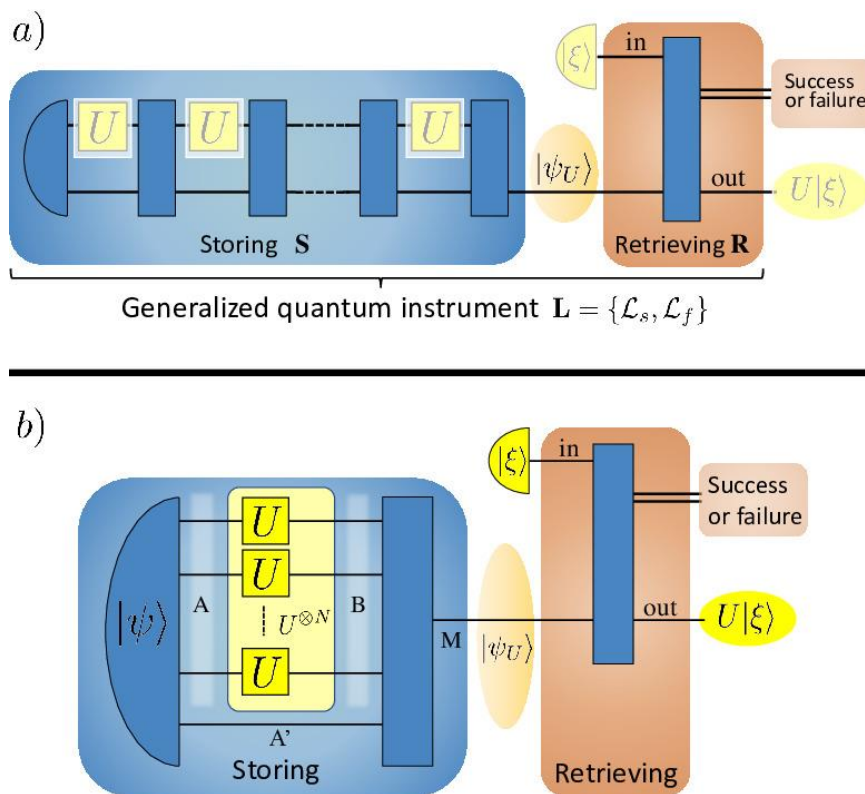
Práve možnosť tejto kvantovej adaptivity robí priestor protokolov veľmi veľkým a komplikovaným. Vďaka formalizmu kvantových hrebeňov sa však problém dá previesť na optimalizáciu semidefinítnych operátorov v istých lineárnych podpriestoroch. Vďaka symetriám sa

dá problém zjednodušiť, no je v podstate až prekvapivé, že aj vďaka podmienke perfektného spätného vyvolania transformácie bolo možné celý problém vyriešiť úplne analyticky. Výsledná optimálna pravdepodobnosť úspechu bezchybného vyvolania pôvodného unitárneho procesu na jednom ľubovolnom vstupe má jednoduchý tvar  $N/(N-1+d^2)$ .

Aby sme však problém vedeli vyriešiť pre ľubovoľne parametre  $N$  a  $d$  a získali uvedenú uzavretú formulu bolo potrebné dokázať novú kombinatorickú identitu pre ireducibilné reprezentácie permutačnej grupy. Toto sa nám podarilo jednak samostatne stavajúc na výsledkoch ruského matematika A. Vershika, ale aj úplne inými metódami v spolupráci so S. Ramgoolamom pracujúcim v oblasti komformálnej teórie poľa. Naše výsledky sú v úzkom vzťahu s nasledovnými dvoma problémami.

Optimalita protokolu Bartletta Rudolpha, Spekkensa a Turnera pre perfektnú synchronizáciu qubitových súradných systémov je priamim dôsledkom nášho výsledku. Hoci kvantová teleportácia bola vynájdená už v roku 1993 jej potreba korekcie na výstupnom stave bránila jej efektívnejšiemu využitiu pri štúdiu zložitosti kvantových algoritmov.

Port based teleportácia potrebu tejto korekcie nahrádza viacerými kvantovými systémami kam môže byť neznámy stav bezchybne teleportovaný. Ukazuje sa, že port-based teleportačné protokoly sa dajú upraviť na ukladanie a vyvolanie unitárnych procesov, dokonca aj s rovnakou pravdepodobnosťou úspechu ako je nami nájdené maximum  $N/(N-1+d^2)$ , avšak vyžadujú exponenciálne viac kvantových systémov na svoju realizáciu. Práve tento rozdiel znamená, že pravdepodobnostné vyvolanie uloženého procesu, ktoré možno interpretovať ako pravdepodobnostný kvantový procesor v našom prípade definuje celú triedu exponenciálne lepších procesorov.



Obr. 1: Ilustrácia  $N \rightarrow 1$  perfektného pravdepodobnostného ukladania a vyvolania unitárnych procesov: (a) najvšeobecnejší možný protokol (b) Optimálny protokol s využitím paralelizácie použitia unitárnych kanálov.

1. M. Sedlák, A. Bisio, and M. Ziman, "Optimal Probabilistic Storage and Retrieval of Unitary Channels", Phys. Rev. Lett. **122**, 170502 (2019) [2018: 9.227 - IF]
2. S. Ramgoolam and M. Sedlák, „Quantum information processing and composite quantum fields“, J. High Energy Phys. **170** (2019) [2018: 5.833 - IF]
3. M. Sedlák, and A. Bisio, „On some new hook-content identities“, arXiv:1809.02008.  
Submitted to Journal of Algebraic Combinatorics (accepted on 10.12.2019)

## **Štúdium hustej baryóvej hmoty pomocou virtuálnych fotónov**

**Autori:** S. Hlaváč, P. Filip

Častice nepodliehajúce silným interakciám môžu poskytnúť informáciu o procesoch v zrážkach relativistických ťažkých iónov, ktoré nedokážu poskytnúť silne interagujúce častice. Fotóny a dileptóny, ktoré sú emitované v priebehu kolízie vysokoenergetických iónov v hustej jadrovej hmote nám poskytujú informácie, ktoré nie sú dostupné pomocou hadrónov. Dileptóny sú preto ideálnou sondou na štúdium procesov v hustej jadrovej hmote, modifikácie vlastností hadronov a QCD hmoty v extrémnych podmienkach. Nevýhodou dileptónov však je, že sú produkované s veľmi malou pravdepodobnosťou a na ich detekciu je potrebné zariadenie, ktoré dokáže dileptóny identifikovať na 106-108 krát vyššiom pozadí hadrónov.

Na štúdium emisie dileptónov bol v GSI Darmstadt vyvinutý dileptónový spektrometer HADES (High Acceptance Di-Electron Spectrometer). Kolaborácia pozostávajúca z okolo 100 fyzikov z 18 ústavov a 9 európskych krajín nedávno oslávila 25. výročie svojho založenia. Spektrometer pozostáva z viacerých komponentov – toroidálneho supravodivého magnetu, RICH detektora, TOF detektora, MDC tracking detektorov, ktoré spolu umožňujú identifikáciu a spektrometriu dileptónov.

Invariantná hmotnosť  $e+e-$  párov bola študovaná v relativistických zrážkach iónov rôznych hmotností od  $p+p$  až do  $Au+Au$ . Pri porovnaní spektier z jednotlivých reakcií sa ukazuje, že normalizované spektrá dileptónov z ťažších systémov vykazujú v oblasti nad Dalitzovým rozpadom  $\pi^0$  mezónov systematický nadbytok produkcie dileptónov. Pozorovanú nadbytočnú produkciu dileptónov je možné vysvetliť najmä modifikáciou vlastností  $\rho$  mezónu, ktorá je spôsobená pravdepodobne vysokou baryónovou hustotou. Takáto modifikácia by mohla byť asociovaná s parciálnym znovunastolením dynamicky narušenej chirálnej symetrie.

1. Probing dense baryon-rich matter with virtual photons, Nature Physics, 15, 1040 (2019) [2018: 20.113 - IF]
2. Sub-threshold production of  $K^*(0)$  mesons and Lambda hyperons in Au plus Au collisions at root  $s(NN)=2.4$  GeV, Physics Letters B **793**, 457 (2019) [2018: 4.162 - IF]
3. Identical pion intensity interferometry in central Au + Au collisions at 1.23A GeV, Physics Letters B **795**, 446 (2019) [2018: 4.162 - IF]
4. Centrality determination of Au plus Au collisions at 1.23A GeV with HADES, European Physical Journal A **54**, 85 (2018) [2017: 2.799 – IF]

## **Štúdium atomárne tenkých vrstiev MoS<sub>2</sub> pre aplikácie v optoelektronike**

**Autori:** Peter Šiffalovič, Michal Bodík, Anna Kálosi, Jakub Hagara, Peter Nádaždy, Adriana Annušová, Naďa Mrkvyňková, Karol Végső, Yuriy Halahovets, Matej Jergel, Eva Majková

Signifikantná časť aktivít v roku 2019 bola venovaná príprave, charakterizácii a aplikácii tenkých MoS<sub>2</sub> vrstiev s malým počtom atomárnych rovín. Systematickou štúdiou exfoliácie MoS<sub>2</sub> v tekutej fáze sme identifikovali hraničnú hodnotu počiatočnej koncentrácie MoS<sub>2</sub> prášku po prvý-krát vôbec[1]. Zdokonalili sme modifikovanú metódu depozície podľa Langmuir-Schaefera

vhodnú pre prípravu homogénnych a elektricky vodivých vrstiev pod vákuovom žiahaní [2]. Ďalej sme prepracovali dve komplementárne metódy vhodné pre komplexnú charakterizáciu atomárne tenkých MoS<sub>2</sub> a to metódu polarizovanej Ramanovej mikrospektroskopie a metódu difrakcie pod malým uhlom dopadu [3–6]. Nakoniec sme študovali rast tenkých vrstiev organických polovodičov na monoatomárnej MoS<sub>2</sub> podložke [7].

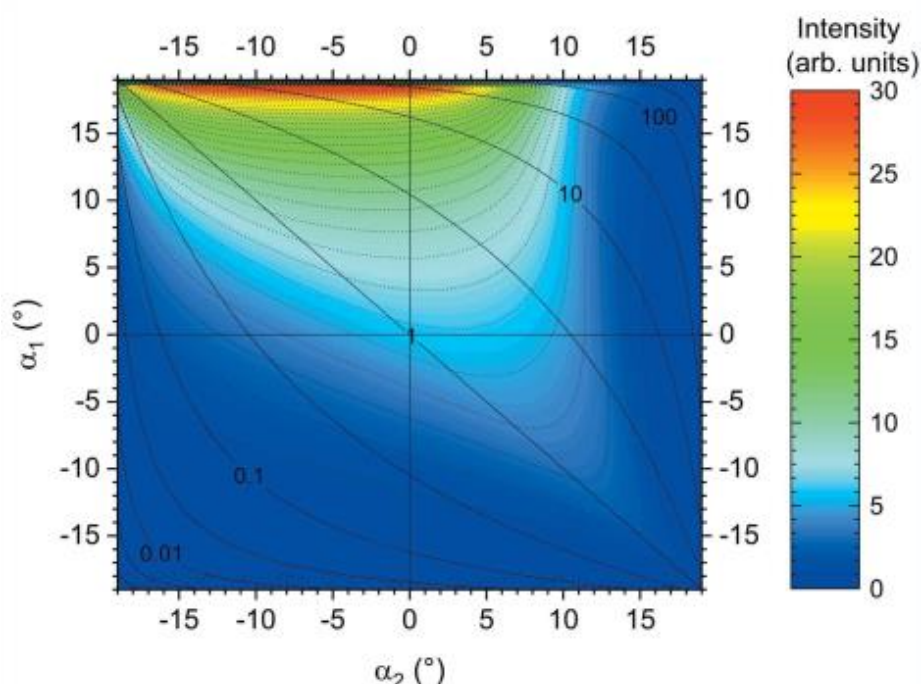
1. M. Bodík et al., An elevated concentration of MoS<sub>2</sub> lowers the efficacy of liquid-phase exfoliation and triggers the production of MoO<sub>x</sub> nanoparticles. In *Physical Chemistry Chemical Physics*, 2019, vol. **21**, no. 23, p. 12396-12405. [2018: 3.567 – IF]
2. M. Hulman et al. Polarized Raman Reveals Alignment of Few-Layer MoS<sub>2</sub> Films. In *Journal of Physical Chemistry C*, 2019, vol. **123**, no. 48, p. 29468-29475. [2018: 4.309 – IF]
3. P. Hutár et al., Highly Crystalline MoS<sub>2</sub> Thin Films Fabricated by Sulfurization. In *Physica Status Solidi B. Basic Research*, 2019, vol. **256**, no. 12, 1900342. [2018: 1.454 – IF]
4. A. Kálosi et al., Tailored Langmuir–Schaefer Deposition of Few-Layer MoS<sub>2</sub> Nanosheet Films for Electronic Applications. In *Langmuir*, 2019, vol. **35**, no. 30, p. 9802-9808. [2018: 3.683 - IF]
5. N. Mrkývková et al., Diindenoperylene thin-film structure on MoS<sub>2</sub> monolayer. In *Applied Physics Letters*, 2019, vol. **114**, no. 25, 251906. [2018: 3.521 - IF]
6. M. Sojková et al., Tuning the orientation of few-layer MoS<sub>2</sub> films using one-zone sulfurization. In *RSC Advances*, 2019, vol. **9**, no. 51, p. 29645-29651. [2018: 3.049 – IF]
7. M. Sojková et al., Carbide-free one-zone sulfurization method grows thin MoS<sub>2</sub> layers on polycrystalline CVD diamond. In *Scientific Reports*, 2019, vol. **9**, no. 2001. [2018: 4.011 – IF]

### 2.3.2. Aplikačný typ

#### **Vysokovýkonná röntgenová optika pre novú generáciu laboratórnych mikrofokusných röntgenových zdrojov**

**Autori:** Matej Jergel, Peter Nádaždy, Jakub Hagara, Yuriy Halahovets, Peter Šiffalovič, Eva Majková

Bola vypracovaná metóda systematického mapovania parametrov výstupného lúča V-kanálikových rtg monochromátorov v závislosti od uhlov asymetrie oboch difrakcií, ktorá umožňuje ich efektívny návrh s absolútnou optimalizáciou zvoleného parametra [1]. V spolupráci s firmou Integra TDS, s.r.o., Piešťany, bola vyvinutá technológia deterministického nanoobrábania povrchov, ktorá splňuje v jednom kroku všetky prísne požiadavky subnanometrovej rtg optiky [2-5]. Na základe systematického mapovania výstupných parametrov bola navrhnutá a technológiou deterministického nanoobrábania pripravená originálna zostava dvoch V-kanálikových monochromátorov optimalizovaná na maximálnu výstupnú intenzitu pri minimálnej strate rozlíšenia. Táto zostava difrakčnej rtg optiky bola nedávno testovaná na mikrofokusnom rtg zdroji fy Xenocs so vstavanou reflexnou optikou. Výsledky testovania ukázali, že takéto spojenie reflexnej a difrakčnej rtg optiky poskytuje vysoko kolimované a vysoko intenzívne fotónové zväzky nevyhnutné pre rtg štúdium nanoštruktúr a procesov na nanoškále. Otvára tak cestu k novej generácii mikrofokusných rtg zdrojov, ktoré umožnia vykonávať v laboratóriu viaceré rtg experimenty doposiaľ výlučne odkázané na synchrotrónové rtg žiarenie.



Obr.1: Rozloženie celkovej výstupnej intenzity CCM Ge (220) na dva uhly asymetrie pre žiarenie Ga K $\alpha$  a divergenciu zdroja 0,5 mrad. Plné obrysové čiary sa vzťahujú na m-faktor tvarovania lúča.

1. P.Nádaždy, J.Hagara, M.Jergel, E.Majková, P.Mikulík, Z.Zápražný, D.Korytár, P.Šiffalovič : Exploiting the Potential of Beam Compressing Channel-cut Monochromators for Laboratory High-resolution Small-angle X-ray Scattering Experiments, J. Appl. Cryst. **52** (2019), 498-506 [2018: 3.161 – IF]
2. Z.Zápražný, D.Korytár, M.Jergel, Y.Halahovets, M.Kotlár, I.Matko, J.Hagara, P.Šiffalovič, J.Kečkés, E.Majková : Characterization of the chips generated by the nanomachining of germanium for X-ray crystal optics, Int. J. Adv. Manuf. Technology **102** (2019), 2757-2767 [2018: 2.496 - IF]
3. Z.Zápražný, D.Korytár, M.Jergel, Y.Halahovets, I.Matko, P.Šiffalovič, J.Kečkés, P.Mikulík, E.Majková, Thu Nhi Tran Thi : Study of Surface Quality and Subsurface Damage of Germanium Optics produced by Single Point Diamond Nanomachining, SPIE Proc. 11032 (2019), art.no. 110320E [2018: 0.238 - SJR]
4. M.Jergel, Y.Halahovets, I.Matko, D.Korytár, Z.Zápražný, J.Hagara, P.Nádaždy, P.Šiffalovič, J.Kečkés, E.Majková : Finishing of Ge Nano-machined Surfaces for X-ray Crystal Optics, Int. J. Adv. Manuf. Technology **96** (2018), 3603-3617 [2017: 2.601 - IF]
5. D.Korytár, Z.Zápražný, C.Ferrari, C.Frigeri, M.Jergel, I.Matko, J.Kečkés : Cross-Sectional TEM Study of Subsurface Damage in SPDT Machining of Germanium Optics, Applied Optics, Applied Optics **57** (2018), 1940-1943 [2017: 1.791 – IF]

### 2.3.3. Medzinárodné vedecké projekty

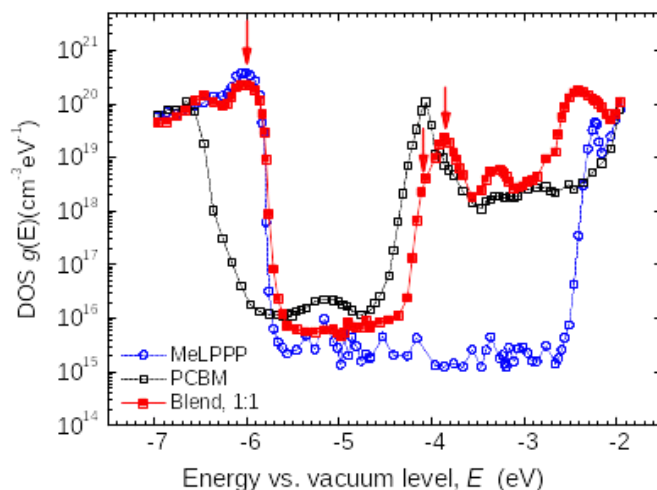
#### Elektrónová štruktúra a transport náboja v organických a hybridných štruktúrach pre efektívne využitie svetla

**Autori:** V. Nádaždy, P. Šiffalovič, K.Végső, R. Subair, P. Nádaždy, M. Bodík, M. Benkovičová, Y. Halahovets, M. Jergel, M. Majková

Oddelenie multivrstiev a nanoštruktúr FÚ SAV rozvinulo širokú medzinárodnú spoluprácu s poprednými výskumnými zahraničnými pracoviskami (viď zoznam publikácií) v oblasti výskumu elektrónovej štruktúry a transportu náboja v hybridných a organických štruktúrach pre konverziu

svetla a dosiahlo viaceré významné výsledky publikované vo vysokoimpaktovaných časopisoch.

V spolupráci s Imperial College London, Anglicko sme systematicky študovali vzťah medzi konformačným defektom a vlastnosťami transportu náboja v konjugovanom polyméri [1]. Ukázali sme, ako môže byť v organických polovodičoch cez molekulárnu štruktúru modifikovaná pohyblivosť náboja. V spolupráci s Univerzitou v Bayreuthe, Nemecko sme určili väzbovú energiu stavov generovaných presunom náboja medzi donorovou a akceptorovou zložkou v organických slnečných článkoch a objasnili sme mechanizmus zníženia aktivačnej energie potrebnej na separáciu elektrón-dierového páru [2]. V spolupráci s Univerzitou v Kalifornii, Santa Barbara, USA sme stanovili kvantitatívnu koreláciu medzi experimentálne určenou distribúciou stavov a transportom náboja [3]. V spolupráci s Univerzitou Tomaša Baťu v Zlíne, Česká republika sme popísali vplyv hrúbky polyméru na formovanie interakcií v polymérnom reťazci ako aj medzi reťazcami [4]. V oblasti organicko-anorganických hybridných perovskitových slnečných článkov (PSCs) sme v spolupráci s Univerzitou v Ríme Tor Vergata, Taliansko preskúmali vplyv dopovania elektrónovej transportnej vrstvy PCBM (derivát fullerénu) uhlíkovými nanočasticami a zvýšili sme účinnosť invertovaného PSC o 12% [5]. V spolupráci s Univerzitou v Pekingu, Čína sme kriticky zhodnotili pokrok v komercializácii PSCs a vypracovali sme aktuálny prehľad metód ich prípravy perspektívnych pre priemyselnú výrobu, a to hlavne z hľadiska termodynamiky kryštalizácie a fyzikálnych vlastností perovskitových vrstiev [6].



Obr. 1: Hustota stavov pre čistý Me-LPPP polymérny film (modré krúžky), čistý PCBM film (čierne štvorce) a zmes 1:1 MeLPPP:PCBM (červené štvorce), vynesená na logaritmickú stupnicu, získaná z energeticky rozlíšenej elektrochemickej impedančnej spektroskopie. Šípky označujú maximum v LUMO, ako aj maximum v HOMO zmesi.

1. X. Shi, V. Nádaždy, A. Perevedentsev, J. M. Frost, X. Wang, E. von Hauff, R. C. I. MacKenzie, and J. Nelson: Relating Chain Conformation to the Density of States and Charge Transport in Conjugated Polymers: The Role of the  $\beta$ -phase in Poly(9,9-dioctylfluorene). *Phys. Rev. X* **9**, 021038 (2019) [2018: 12.211 - IF]
2. S. Athanasopoulos, F. Schauer, V. Nádaždy, M. Weiß, F.J. Kahle, U. Scherf, H. Bässler, and A. Köhler: What is the Binding Energy of a Charge Transfer State in an Organic Solar Cell? *Adv. Energy Mater.* **9**, 1900814 (2019) [2018: 24.884 - IF]
3. A. Karki, G.J. A. H. Wetzelaer, G. N. M. Reddy, V. Nádaždy, M. Seifrid, F. Schauer, G. C. Bazan, B. F. Chmelka, P. W. M. Blom, and T.Q. Nguyen: Unifying Energetic Disorder from Charge Transport and Band Bending in Organic Semiconductors.



Adv. Funct. Mater. **29**, 1901109 (2019) [2018: 15.621 - IF]

4. P. Urbanek, I. Kuřitka, J. Sevcík, J. Toušková, J. Toušek, V. Nádaždy, P. Nádaždy, K. Vegso, P. Šiffalovič, R. Rutsch, M. Urbánek: An experimental and theoretical study of the structural ordering of the PTB7 polymer at a mesoscopic scale.

Polymer **169**, 243 (2019) [2018: 3.771 - IF]

5. R. Subair, D. Di Girolamo, M. Bodík, V. Nádaždy, B. Li, P. Nádaždy, Z. Markovic, M. Benkovicova, J. Chlpík, M. Kotlár, Y. Halahovets, P. Šiffalovič, M. Jergel, J. Tian, F. Brunetti, Eva Majková: Effect of the doping of PC61BM electron transport layer with carbon nanodots on the performance of inverted planar MAPbI<sub>3</sub> perovskite solar cells.

Sol. Energy **189**, 426 (2019) [2018: 4.674 - IF]

6. F. Huang, M. Li, P. Šiffalovič, G. Cao, and J. Tian: From scalable solution fabrication of perovskite films towards commercialization of solar cells.

Energy Environ. Sci. **12**, 518 (2019) [2018: 33.250 - IF]], cit. 34, WoS highly cited paper

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

Tabuľka 2e Štatistika vybraných kategórií publikácií

<b>PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ</b>	<b>Počet v r. 2019/ doplňky z r. 2018</b>
<b>1. Vedecké monografie a monografické štúdie vydané v domácich vydavateľstvách (AAB, ABB)</b>	<b>0 / 0</b>
<b>2. Vedecké monografie a monografické štúdie vydané v zahraničných vydavateľstvách (AAA, ABA)</b>	<b>0 / 0</b>
<b>3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané v domácich vydavateľstvách (BAB, ACB, CAB)</b>	<b>0 / 0</b>
<b>4. Odborné monografie a vysokoškolské učebnice a učebné texty vydané v zahraničných vydavateľstvách (BAA, ACA, CAA)</b>	<b>0 / 0</b>
<b>5. Kapitoly vo vedeckých monografiách vydaných v domácich vydavateľstvách (ABD)</b>	<b>0 / 0</b>
<b>6. Kapitoly vo vedeckých monografiách vydaných v zahraničných vydavateľstvách (ABC)</b>	<b>1 / 0</b>
<b>7. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v domácich vydavateľstvách (BBB, ACD)</b>	<b>0 / 0</b>
<b>8. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v zahraničných vydavateľstvách (BBA, ACC)</b>	<b>0 / 0</b>
<b>9. Vedecké práce registrované v Current Contents Connect (ADCA, ADCB, ADDA, ADDB)</b>	<b>93 / 0</b>
<b>10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus (ADMA, ADMB, ADNA, ADN B)</b>	<b>24 / 0</b>
<b>11. Vedecké práce v ostatných domácich časopisoch (ADFA, ADFB)</b>	<b>3 / 0</b>
<b>12. Vedecké práce v ostatných zahraničných časopisoch (ADEA, ADEB)</b>	<b>4 / 0</b>
<b>13. Vedecké práce v domácich recenzovaných zborníkoch (AEDA)</b>	<b>0 / 0</b>
<b>14. Vedecké práce v zahraničných recenzovaných zborníkoch (AECA)</b>	<b>1 / 0</b>
<b>15. Publikované príspevky na domácich vedeckých konferenciách (AFB, AFD)</b>	<b>5 / 0</b>
<b>16. Publikované príspevky na zahraničných vedeckých konferenciách (AFA, AFC)</b>	<b>9 / 0</b>
<b>17. Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS</b>	<b>0</b>
<b>18. Ostatné vydané periodiká</b>	<b>0</b>
<b>19. Zostavovateľské práce knižného charakteru (FAI)</b>	<b>0 / 0</b>
<b>20. Preklady vedeckých a odborných textov (EAJ)</b>	<b>0 / 0</b>
<b>21. Heslá v odborných terminologických slovníkoch a encyklopédiách (BDA, BDB)</b>	<b>0 / 0</b>
<b>22. Recenzie v časopisoch a zborníkoch (EDI)</b>	<b>0 / 0</b>

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



Tabuľka 2f Štatistika vedeckých prác podľa kvartilu vedeckého časopisu

<b>Kvartil vedeckého časopisu</b>	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Spolu</b>
<b>Podľa IF z r. 2018 (zdroj JCR)</b> <i>Počet článkov / doplnky 2017</i>	49 / 0	38 / 0	5 / 0	10 / 0	102 / 0
<b>Podľa SJR z r. 2018 (zdroj Scimago)</b> <i>Počet článkov / doplnky 2017</i>	74 / 0	16 / 0	12 / 0	15 / 0	117 / 0

Tabuľka 2g Ohlasy

<b>OHLASY</b>	<b>Počet v r. 2018/ doplnky z r. 2017</b>
<b>Citácie vo WOS (1.1, 2.1)</b>	2977 / 1
<b>Citácie v SCOPUS (1.2, 2.2)</b>	17 / 0
<b>Citácie v iných citačných indexoch a databázach (9, 10, 3.2, 4.2)</b>	0 / 0
<b>Citácie v publikáciách neregistrovaných v citačných indexoch (3, 4, 3.1, 4.1)</b>	5 / 1
<b>Recenzie na práce autorov z organizácie (5, 6, 7, 8)</b>	0 / 0

## 2.5. Aktívna účasť na vedeckých podujatiach

Tabuľka 2h Vedecké podujatia

<b>Prednášky a vývesky na medzinárodných vedeckých podujatiach</b>	85
<b>Prednášky a vývesky na domácich vedeckých podujatiach</b>	6

## 2.6. Vyžiadané prednášky

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

### 2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

Ing. Vlastimil Boháč, CSc.

22. — 24. 9. 2019, THERMAM 2019, Cesme, Turecko, „The models with accounted disturbance effects for the measurement of thermophysical properties of materials by Transient methods“

RNDr. Beata Butvinová, CSc.

18. — 21. 11. 2019, SURFIN-SREN VI 2019, Progress in Applied Surface, Interface and Thin Film Science 2019, Solar Renewable Energy News VI, Florencia, Taliansko, „Impact of surfaces on the magnetic properties of Fe-based nanocrystalline ribbons“

RNDr. Stanislav Dubnička, DrSc.

30. 1. — 3. 2. 2019, Excited QCD 2019, Schladming, Rakúsko, „Signs of universal vector-meson coupling constants  $f_\rho$ ,  $f_\omega$ ,  $f_\phi$  with photons“

Mgr. Andrej Gendiar, PhD.

7. — 8. 6. 2019, Workshop on Quantum Magnetism: Theoretical Challenges and Future Perspectives, UPJŠ Košice, Slovensko, „Majorana bound states affected by Coulomb interaction“

Ing. Štefan Gmuca, CSc.

23. — 29. 6. 2019, 38th Int. Workshop on Nuclear Theory, Borovets, Bulgaria, „Mapping of Dirac-Hartree-Fock approach onto the relativistic mean field model“

prof. Ing. Štefan Luby, DrSc.

15. 3. 2019, Int. Conf. All about People, Maribor, Alma Mater Europaea, „Participation and success rate of new EU member states in Horizon 2020 and their outlook in Horizon Europe“.
24. 4. 2019, Medz. konf. Muž Slnka, k 100. výročiu úmrtia M. R. Štefánika, Piešťany, „Návrat k Misii Štefánik“

RNDr. Eva Majková, DrSc.

25. — 27. 7. 2019, WCAM 2019 World Congress of Advanced Materials 2019, Osaka, Japonsko, E. Majkova et al., „Effect of carbon nanodots on the performance of perovskite solar cells“
13. — 15. 11. 2019, ANALYTIX2019 Europe, E. Majkova et al., „Kinetics of Nanostructure Formation by In-situ Grazing-Incidence X-ray Scattering – Three Topical Examples“

RNDr. Nad'a Mrk'vková, PhD.

15. — 18. 10. 2019, SPICE 2019, Mainz, Nemecko, „pi-Conjugated Molecules on Few-Layered MoS substrate“
8. — 11. 7. 2019, 2nd International Conference on: Interface Properties in Organic and Hybrid Electronics: Perspectives & Key Challenges, Cergy Pontoise, Francúsko, „Real-time study of diindenoperylene thin-film structure on MoS<sub>2</sub> monolayer“
4. — 8. 3. 2019, NESY winter school 2019, Rakúsko, „Diindenoperylene Molecules on 2D MoS<sub>2</sub> Substrates“

RNDr. Daniel Reitzner, PhD.

7. 1. 2019, Trojkra'ová konferencia, Praha, ČR, „Quantum Incompatibility“
15. 9. 2019, Cryocourse 2019, Zemplínska šírava, SK, „Introduction to Quantum Information“
30. 9. — 1. 10. 2019, Quapital summer school, Bratislava, SK, „Invitation to Quantum Information“

doc. Mgr. Mário Ziman, PhD.

24. 5. 2019, Quantum resources and their application, Sopot, Poľsko, „Quantum learning of quantum gates“
17. 10. 2019, Workshop on fundametals of quantum information processing, Mohali, India, „Quantum Encryption“
18. 10. 2019, Quantum Foundations, Technologies and Applications QFTA-2019, Mohali, India, „Incompatibility and nonlocality of quantum process measurements“

## **2.6.2. Vyžiadané prednášky na domácich vedeckých podujatiach**

Mgr. Cyril Adamuščin, PhD.

26. 5. — 1. 6. 2019, RNP 2019, Stará Lesná, „Vector meson dominance model of hyperons and issue of the F,D currents“

Ing. Štefan Gmuca, CSc.

2. — 5. 9. 2019, 24th Conference of Slovak Physicists, Žilina, „Keď Vesmír umrie“

prof. Ing. Štefan Luby, DrSc.

13. 11. 2019, Š. Luby, P. Kopčanský, J. Ivančo, XXIII. Kongres Slovenskej lekárskej spoločnosti, Bratislava, „Nanotechnológie v medicíne“

RNDr. Eva Majková, DrSc.

2. — 3. 10. 2019, 21. Škole vákuovej techniky, Štrbské Pleso, „Nanovrstvy pripravovane fyzikálnou depozíciou z pár“

RNDr. Anton Repko, PhD.

26. 5. — 1. 6. 2019, RNP 2019, Stará Lesná, „Nuclear structure by inelastic electron scattering“

### **2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách**

Mgr. Andrej Gendiar, PhD.

19. 2. 2019, University of Ostrava, Ostrava, Česká republika, „Numerics in Quantum Mechanics: Introduction to Tensor Networks“

8. 4. 2019, Jagelonian University, Krakow, Poľsko, „Phase Transition on Hyperbolic Surfaces and Fractals (Tensor-Network Studies)“

Ing. Ján Ivančo, DrSc.

4. 12. 2019, Univerzita Tomáše Bati, Zlín, ČR, „Electronically Functional Molecular Films and Related Interfaces“

prof. Ing. Štefan Luby, DrSc.

30. 10. 2019, Š. Luby, D. Straka, Akadémia vied ČR, Praha, ČR, „Success of Danube countries in the framework programmes of EU – the role of scientific diplomacy“

RNDr. Ľubomír Martinovič, CSc.

5. 12. 2019, BLTP, SÚJV Dubna, RF, „Perturbative and non-perturbative studies in light-front field theory and operator solutions of some two-dimensional models“

Mgr. Daniel Nagaj, PhD.

14. 2. 2019, University of Turku, Finland, „What you will be able to do on computers we don't have yet“

Mgr. Michal Sedlák, PhD.

12. 9. 2019, Department of Physics, Graduate School of Science, The University of Tokyo, Japan, „Optimal probabilistic storage and retrieval of unitary channels“

10. 10. 2019, Centre for Quantum Information and Foundations, Centre for Mathematical Sciences, Cambridge, UK, „Optimal probabilistic storage and retrieval of unitary channels“

## **2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2019**

### **2.7.1. Vynálezy, na ktoré bol v roku 2019 udelený patent**

#### **a) na Slovensku**

Názov vynálezu: Zariadenie na meranie hĺbkového profilu fotoluminiscenčného signálu v tenkovrstvových polovodičových štruktúrach

Číslo patentu: 288652

Dátum priority: 2014

Majiteľ / spolumajiteľ: Brunner Róbert, RNDr., CSc.; Bratislava; SK

Pôvodcovia vynálezu: Brunner Róbert

#### **b) v zahraničí**

### **2.7.2. Vynálezy prihlásené v roku 2019**

#### **a) na Slovensku**

b) v iných krajinách ako prioritná prihláška

c) PCT

d) EP

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

### 2.7.3. Úžitkové vzory na Slovensku

a) prihlásené v roku 2019

b) udelené v roku 2019

### 2.7.4. Realizované vynálezy

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

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

*Finančný prínos pre organizáciu SAV v roku 2019 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
Bartoš Erik	VEGA	2
Boháč Vlastimil	VEGA	1
Butvinová Beata	VEGA	1
Jergel Matej	VEGA	2

## 2.9. Účasť na spracovaní hesiel do encyklopédie Beliana

Počet autorov hesiel: 1

## 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
Běták Emil	0	0	1	0	0	0	0
Bodík Michal	0	0	3	0	0	0	0
Boháč Vlastimil	0	0	2	0	0	3	2

Butvin Pavol	0	0	0	0	0	0	2
Butvinová Beata	0	0	2	0	0	0	2
Gendiar Andrej	0	0	10	0	0	0	1
Gmuca Štefan	0	0	3	0	0	3	0
Gmucová Katarína	0	0	2	0	0	0	0
Ivančo Ján	0	0	2	0	0	0	0
Jergel Matej	0	0	5	0	0	0	0
Kalinay Pavol	0	0	4	0	0	0	0
Kliman Ján	0	0	0	0	2	0	1
Luby Štefan	0	0	2	0	0	0	2
Majková Eva	0	0	12	0	0	0	0
Martinovič Lubomir	0	0	1	0	0	0	0
Mihalkovič Marek	0	0	3	0	0	0	0
Nádaždy Vojtech	0	0	1	0	1	0	0
Pivoluska Matej	0	0	7	0	2	0	0
Plesch Martin	0	0	5	0	0	0	0
Reitzner Daniel	0	0	4	0	0	0	0
Sedlák Michal	0	0	3	0	0	0	0
Šauša Ondrej	0	0	5	0	0	0	0
Švec Peter	0	0	5	0	0	0	0
Ziman Mário	0	0	15	0	0	0	0
<b>Spolu</b>	<b>0</b>	<b>0</b>	<b>97</b>	<b>0</b>	<b>5</b>	<b>6</b>	<b>10</b>

## 2.11. Iné informácie k vedeckej činnosti.

Na pôde Fyzikálneho ústavu SAV prebehol Výročný seminár v dňoch 2. — 3. decembra 2019. Cieľom seminára bolo priblížiť prácu a výsledky jednotlivých oddelení ostatným pracovníkom ústavu a vyhodnotiť najvýznamnejšie výsledky ústavu za rok 2019. Každé oddelenie prezentovalo svoju prácu a dosiahnuté výsledky v niekoľkých prednáškach. Semináru sa zúčastnili aj dvaja členovia medzinárodného poradného zboru, prof. J. Eckert a prof. R. Kamiński.

### 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 2019

Forma	Počet k 31.12.2019				Počet doktorandov po doktorandskej skúške		Počet ukončených doktorantúr v r. 2019					
							Ukončenie z dôvodov					
	celkový počet		z toho novoprijatí				ukončenie úspešnou obhajobou		predčasné ukončenie		neúspešné ukončenie	
	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž
Denná zo zdrojov SAV	17	5	5	1	12	2	2	1	0	0	0	0
Denná z iných zdrojov	0	0	0	0	0	0	0	0	0	0	0	0
Externá	0	0	0	0	0	0	0	0	0	0	0	0
Spolu	17	5	5	1	12	2	2	1	0	0	0	0
Súhrn	22		6		14		3		0		0	

Uvádzajte len doktorandov organizácie ako externej vzdelávacej inštitúcie.

Riadok „Spolu“ je súčtom troch riadkov nad ním. Každá bunka v „Súhrn“ je súčtom dvoch buniek nad ňou. V stĺpci „Počet doktorandov po doktorandskej skúške“ sa uvádza počet doktorandov, ktorí počas roku 2019 boli aspoň 1 deň doktorandami po doktorandskej skúške. Sú číselne zahrnutí aj v predchádzajúcich stĺpcoch.

#### 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
<b>Počet</b>	0	0	0	0	0	0

#### 3.3. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou

Tabuľka 3c Menný zoznam ukončených doktorandov v roku 2019 úspešnou obhajobou

Meno doktoranda	Forma DŠ	Mesiac, rok nástupu na DŠ	Mesiac, rok obhajoby	Číslo a názov študijného odboru	Meno a organizácia školiteľa	Fakulta udeľujúca vedeckú hodnosť
Mgr. Katarína Čechová	interné štúdium hradené z prostriedkov SAV	9 / 2015	10 / 2019	4.1.5 jadrová a subjadrová fyzika	RNDr. Ondrej Šauša CSc., FU SAV	Fakulta matematiky, fyziky a informatiky UK

Mgr. Dušan Kamas	interné štúdium hradené z prostriedkov SAV	9 / 2014	10 / 2019	4.1.5 jadrová a subjadrová fyzika	Ing. Ján Kliman DrSc., FU SAV	Fakulta matematiky, fyziky a informatiky UK
Ing. Matúš Sedlák	interné štúdium hradené z prostriedkov SAV	9 / 2015	10 / 2019	4.1.5 jadrová a subjadrová fyzika	Mgr. Martin Venhart PhD., FU SAV	Fakulta matematiky, fyziky a informatiky UK

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

Tabuľka 3d Menný zoznam ukončených doktorandov v roku 2019 úspešnou obhajobou v nadštandardnej dĺžke štúdia

Meno doktoranda	Forma DŠ	Mesiac, rok nástupu na DŠ	Mesiac, rok obhajoby	Číslo a názov študijného odboru	Meno a organizácia školiteľa	Fakulta udeľujúca vedeckú hodnotu
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### 3.5. Uplatnenie absolventov doktorandského štúdia

Tabuľka 3e Prehľad uplatnenia absolventov doktorandského štúdia

Počet absolventov PhD. štúdia v roku 2019 (obhajoba leto 2019)	z toho koľkí sa zamestnali vo výskume (SAV, univerzity, rezortné výskumné ústavy)	z toho koľkí sa zamestnali v praxi mimo výskum, kde využívajú svoju kvalifikáciu	z toho koľkí sa zamestnali v praxi, kde nevyužívajú svoju kvalifikáciu	z toho koľkí boli nejaký čas nezamestnaní
0	0	0	0	0

Zoznam interných a externých doktorandov je uvedený v prílohe A.

### 3.6. Medzinárodné doktorandské štúdium

Tabuľka 3f Počet študentov v medzinárodných programoch doktorandského štúdia

Cotutelle	Co-direction	Iné	Zahraniční doktorandi štátne občianstvo/počet
0	0	0	IND/6, IRN/1, ITA/1, KAZ/1, SRB/1

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

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

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

Tabuľka 3g Zoznam študijných odborov, na ktoré má ústav uzatvorenú rámcovú dohodu, s uvedením univerzity/vysokej školy a fakulty, kde sa doktorandský študijný program uskutočňuje

Názov študijného odboru (ŠO)	Číslo ŠO	Doktorandské štúdium uskutočňované na (univerzita/vysoká škola a fakulta)
všeobecná fyzika a matematická fyzika	4.1.2	Fakulta matematiky, fyziky a informatiky UK
fyzika kondenzovaných látok a akustika	4.1.3	Fakulta matematiky, fyziky a informatiky UK
kvantová elektronika a optika	4.1.4	Fakulta matematiky, fyziky a informatiky UK
jadrová a subjadrová fyzika	4.1.5	Fakulta matematiky, fyziky a informatiky UK
fyzikálne inžinierstvo	5.2.48	Fakulta elektrotechniky a informatiky STU

Tabuľka 3h 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
Doc. RNDr. Emil Běták, DrSc. (všeobecná fyzika a matematická fyzika)	Doc. RNDr. Emil Běták, DrSc. (Filozoficko-prirodovedecká fakulta Slezské univerzity, Česká republika)	
Doc. RNDr. Emil Běták, DrSc. (jadrová a subjadrová fyzika)	Prof. RNDr. Vladimír Bužek, DrSc. (Fakulta matematiky, fyziky a informatiky UK)	
Doc. RNDr. Emil Běták, DrSc. (odbor v zahraničí)	prof. Ing. Štefan Luby, DrSc. (Alma Mater Europaea Ascoli Piceno, Taliansko)	
Ing. Vlastimil Boháč, CSc. (fyzikálne inžinierstvo)	prof. Ing. Ivan Štich, DrSc. (Fakulta prírodných vied UCM)	
Prof. RNDr. Vladimír Bužek, DrSc. (všeobecná fyzika a matematická fyzika)	Mgr. Martin Venhart, PhD. (Materiálovotechnologická fakulta STU v Trnave)	
RNDr. Stanislav Dubnička, DrSc. (všeobecná fyzika a matematická fyzika)		
RNDr. Stanislav Dubnička, DrSc. (jadrová a subjadrová fyzika)		
Mgr. Andrej Gendiar, PhD. (všeobecná fyzika a matematická fyzika)		
Mgr. Andrej Gendiar, PhD. (všeobecná fyzika a matematická fyzika)		
Ing. Štefan Gmuca, CSc. (jadrová a subjadrová fyzika)		
Ing. Matej Jergel, DrSc. (fyzika kondenzovaných látok a akustika)		
Ing. Matej Jergel, DrSc. (kvantová elektronika a optika)		
Ing. Matej Jergel, DrSc. (fyzikálne inžinierstvo)		
RNDr. Pavol Kalinay, CSc. (všeobecná fyzika a matematická fyzika)		



fyzika)		
Ing. Ján Kliman, DrSc. (fyzika)		
Ing. Ján Kliman, DrSc. (jadrová a subjadrová fyzika)		
Ing. Ján Kliman, DrSc. (jadrová energetika)		
Ing. Ján Kliman, DrSc. (fyzikálne inžinierstvo)		
Ing. Ján Kliman, DrSc. (odbor v zahraničí)		
Ing. Štefan Lányi, DrSc. (elektronika)		
RNDr. Eva Majková, DrSc. (kvantová elektronika a optika)		
RNDr. Eva Majková, DrSc. (fyzikálne inžinierstvo)		
Doc. RNDr. Martin Plesch, PhD. (teória vyučovania fyziky)		
RNDr. Ladislav Šamaj, DrSc. (všeobecná fyzika a matematická fyzika)		
Dr. Rer. Nat. Peter Šiffalovič, PhD. (kvantová elektronika a optika)		
Ing. Peter Švec, DrSc. (všeobecná fyzika a matematická fyzika)		
Ing. Peter Švec, DrSc. (fyzika kondenzovaných látok a akustika)		
Ing. Peter Švec, DrSc. (elektrotechnológie a materiály)		
Ing. Peter Švec, DrSc. (materiály)		
Ing. Peter Švec, DrSc. (fyzikálne inžinierstvo)		
Mgr. Martin Veselský, PhD. (jadrová a subjadrová fyzika)		

### 3.8. Údaje o pedagogickej činnosti

Tabuľka 3i Prednášky a cvičenia vedené v roku 2019

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	4	1	0	2
Celkový počet hodín v r. 2019	224	28	0	52

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

Tabuľka 3j Aktivity pracovníkov na VŠ

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

### 3.9. 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 2019 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

RNP 2019 – Relativistic Nuclear Physics from Hundreds MeV to TeV, Stará Lesná, Slovensko, 26.05.-01.06.2019

CEQIP 2019 – Central European Quantum Information Processing, Skalica, Slovensko, 03.06.-06.06.2019

APCOM 2019 – Applied Physics of Condensed Matter, Štrbské Pleso, Slovensko, 19.06.-21.06.2019

IC-MSQUARE 2019 – 8th Int. Conference on Mathematical Modeling in Physical Sciences, Bratislava, Slovensko, 26.08.-30.08.2019

CUF-MAST 2019 – Central Europe Forum for Materials and Applications for Sensors and Transducers, 8th IC-MAST, Bratislava, Slovensko, 02.09.-05.09.2019

2019 QUAPITAL Summer School, Bratislava, Slovensko, 35 účastníkov, 30.09.-04.10.2019

ISTROS 2019 – Isospin, STructure, Reactions and energy Of Symmetry, Častá-Papiernička, Slovensko, 50 účastníkov, 20.10.-25.10.2019

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

SURFINT-SREN 2019 – Progress in Applied Surface, Interface and Thin Film Science, Florencia, Taliansko, 18.11.-21.11.2019

#### 4.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2020 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

APCOM 2020 – Applied Physics of Condensed Matter/APCOM 2020 – Applied Physics of Condensed Matter, Štrbské Pleso, Slovensko, 09.06.-11.06.2020, (Peter Švec, [59410] 561, 562, 570, 582, peter.svec@savba.sk)

#### 4.1.3. Počet pracovníkov v programových a organizačných výboroch medzinárodných konferencií

Tabuľka 4a Programové a organizačné výbory medzinárodných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Báčová Silvia	0	0	1
Balogh Matúš	0	1	0
Brunner Róbert	0	0	1
Gmuca Štefan	0	0	1

Herzáň Andrej	0	0	1
Hlaváč Stanislav	4	0	0
Jergel Matej	1	0	0
Kantay Gulnur	0	1	0
Kliman Ján	2	0	1
Matoušek Vladislav	0	1	0
Mihalkovič Marek	0	0	1
Pinčík Emil	0	0	1
Rapčan Peter	0	0	1
Reitzner Daniel	0	0	1
Sedlák Matúš	0	1	0
Sedlák Michal	1	0	0
Švec Peter	1	0	1
Venhart Martin	0	0	1
Ziman Mário	0	0	2
Zitto Peter	0	0	1
<b>Spolu</b>	<b>9</b>	<b>4</b>	<b>14</b>

## 4.2. Členstvo a funkcie v medzinárodných orgánoch

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

Doc. RNDr. Emil Běták, DrSc.

Institute of Physics (funkcia: člen Fellowship Panelu)  
Institute of Physics (funkcia: fellow)

RNDr. Pavol Butvin, CSc.

European Physical Society (funkcia: člen)

Prof. RNDr. Vladimír Bužek, DrSc.

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

Mgr. Peter Filip, PhD.

European Physical Society (funkcia: individuálny člen)

Mgr. Andrej Gendiar, PhD.

Americká fyzikálna spoločnosť (funkcia: člen)

Ing. Ján Ivančo, DrSc.

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

Ing. Matej Jergel, DrSc.

Česko-Slovenská kryštalografická spoločnosť (funkcia: člen, 1996-2002 člen Rady)  
European Academy of Sciences and Arts (funkcia: člen)  
Európska organizácia používateľov synchrotrónového žiarenia a FEL (European Synchrotron and FEL Users Organization) (funkcia: národný delegát)  
Národný komitét IUPAP (funkcia: člen)

Ing. Štefan Lányi, DrSc.

Česká společnost pro nové materiály a technologie (funkcia: člen)  
Materials Research Society (funkcia: člen)

prof. Ing. Štefan Luby, DrSc.

Dunajská akademická konferencia (funkcia: prezident)  
Európska akadémia vied a umení (funkcia: senátor)  
Europska akademija vied a umení (funkcia: viceprezident)  
Identifikačný kód Slovenska (funkcia: gestor za EASA)  
Medzinárodná nadácia S.T.E.P.S. Grécko - USA (funkcia: člen rady)

RNDr. Eva Majková, DrSc.

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

RNDr. Igor Matko, CSc.

Československá mikroskopická spoločnosť (funkcia: člen)

RNDr. Emil Pinčík, CSc.

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

Doc. RNDr. Martin Plesch, PhD.

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

RNDr. Daniel Reitzner, PhD.

Fulbright Commision (funkcia: Alumni)

Ing. Mgr. Peter Staňo, PhD.

American Physical Society (funkcia: člen)

prof. Ing. Ivan Štich, DrSc.

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

Ing. Vladimír Štofanič, PhD.

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

Ing. Peter Švec, DrSc.

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

Ing. Peter Švec Jr., PhD.

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

#### **4.3. Účast' 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
Jergel Matej	Marie Curie Programme - AIAS-COFUND fellowships	4
Plesch Martin	Erasmus +	4

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

Medzinárodná medzivládna organizácia, Spojený ústav jadrových výskumov (SÚJV) v Dubne, založená v r. 1956, ako prvá z ostatných existujúcich medzinárodných organizácií zohrala kľúčovú úlohu v odbornom raste slovenskej vedeckej komunity, hlavne z oblasti fyzikálnych vied. Tento ústav od svojho založenia vychoval do 600 expertov na Slovensku, z ktorých mnohí doteraz pôsobia na 13-tich fakultách univerzít SR a 6-tich ústavoch SAV.

Z Fyzikálneho ústavu SAV s SÚJV úzko spolupracujú Oddelenie teoretickej fyziky (OTF) a Oddelenie jadrovej fyziky (OJF).

Kolektív OTF v rámci vydeleného cieľového projektu sa zúčastňuje na teoretickej identifikácii rezonančných stavov v rôznych zviazaných procesoch pomocou konštrukcií amplitúd procesov rešpektujúcich hlavne analyticitu, výskumom vákuových diagramov v „light-front“ poruchovej teórii kvantovaných polí, na teoretickom predpovedaní rozpadov ťažkých exotických mezónov (v súčasnosti experimentálne objavovaných na urýchľovačoch typu B-fabrick) v rámci nelokálneho relativistického kovariantného modelu uväznených kvarkov pomocou infračerveného cutoffu, ktoré spätne umožňujú identifikovať štruktúru skúmanej častice ako viazaného stavu štyroch kvarkov, alebo viazaného stavu dvoch ľahších mezónov, či hybridného stavu kvarkov a mezónov, a na

využití teórie strún k predpovediam časových radov, s možnosťou ich aplikácií na rôzne interdisciplinárne oblasti, spájajúce ekonomické, biologické, chemické a iné systémy.

Kolektív OJF v rámci troch vydelených cieľových projektov sa zúčastňuje na výskume syntézy a vlastností supert ťažkých prvkov a jadier na hranici stability, v oblasti relativistickej jadrovej fyziky a na prácach spojených s vybudovaním nového urýchl'ovačového komplexu Nuclotron/NICA.

Významné výsledky boli dosiahnuté v systematickej práci, orientovanej na určenie absolútnych účinných prierezov tvorby výparných rezíduí pri reakciách ťažkých iónov  $^{36}\text{Ar}$ ,  $^{40}\text{Ar}$ ,  $^{40}\text{Ca}$  a  $^{48}\text{Ca}$  s jadrami  $^{144}\text{Sm}$ ,  $^{148}\text{Sm}$ ,  $^{144}\text{Nd}$ ,  $^{166}\text{Er}$ , a  $^{\text{nat}}\text{Sm}$  blízkyh uzavretej neutrónovej šupke  $N=126$ . Jadrové reakcie bol realizované pri nízkej excitačnej energii v oblasti Coulombovskej bariéry. V procese totálnej fúzie kombinácie deformovaných a nedeformovaných jadier terča a projektilu bolo zistené, že výška bariéry pre polárnu a ekvatoriálnu interakciu, sa v závislosti od deformácie mení o 5 až 7 MeV. Výsledok bol získaný prvýkrát. Absolutné hodnoty účinných prierezov a excitačných funkcií boli získané pre 6 výparných kanálov. S cieľom zvýšiť efektívnosť hmotnostného spektrometra MASHA bola experimentálne skúmaná vhodnosť použitia nových materiálov z poly-grafénu a z uhlíkových nanotrubiék vo forme fólií, ako nosného materiálu pre tepelne extrémne namáhané terče Pu jadier. Bolo zistené, že najvyššiu reemisiu produktov jadrových reakcií vykazujú fólie z uhlíkových nanotrubiék. Na tejto téme bola v roku 2019 obhájená doktorandská dizertačná práca (D. Kamas, školiteľ J. Kliman).

V oblasti relativistickej jadrovej fyziky bola pozornosť sústredená na problematiku hľadania exotických eta-mezónových jadier v pA a dA zrážkach na Nuklotróne LFVE SÚJV s modifikovaným detekčným zariadením SCAN3. Bol testovaný prototyp neutrónového detektora so 4 scintilačnými vrstvami. Bola zmeraná účinnosť detektora 27 %. Bol zistený prah produkcie eta-jadier pri energii deuterónov 0,8GeV/nukleón. Naďalej sa pokračuje vo vývoji hybridného magnetického spektrometra SCAN-3 na detekciu nabitých a neutrálnych častíc produkovaných v stanici vnútorných terčov na Nuklotróne.

V uplynulom období sme sa venovali najmä vývoju algoritmov offline spracovania digitalizovaných signálov z detektorov v prostredí systému ROOT. Vypracovali sme algoritmus rýchlej detekcie pulzov a ich uchovania spolu s časovou informáciou. Pre umožnenie správneho nastavenia meracej aparatury sme vypracovali a otestovali subsystém on-line zobrazenia niektorých kritických parametrov zberu dát, ako napríklad monitorovanie stupňa zaplnenia hardvérových bufrov, monitorovanie dátových tokov na vstupoch a výstupoch zberovej elektroniky, monitorovanie a automatická korekcia niektorých chýb vznikajúcich počas zberu v zberovej elektronike.

Príprava tenkých terčikov je nevyhnutnou súčasťou experimentálnych aktivít v jadrovej astrofyzike, jadrových analytických metódach a v röntgen-fluorescenčnej analýze. Na prípravu tenkých terčikov z práškových materiálov sme vyvinuli modul využívajúci vibračný pohyb prachových zrn v intenzívnom elektrostatickom poli (HIVIPP – high energy vibrational powder plating). Zariadenie je zamerané na prípravu vzoriek pri normálnom atmosférickom tlaku. V testovacej fáze boli pripravené terčíky z práškového Mn deponované na tenkú Al fóliu. Vlastnosti pripravených terčikov boli študované pomocou XRF mikroskopu. Potvrdili sa očakávané vlastnosti takto pripravených vzoriek. V rozpracovaní technológie nanášania terčového materiálu na sklenené nite sa pokračuje.

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

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

## **5. Koncepcia dlhodobého rozvoja organizácie**

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

1. Clear picture of organisation and governing structure, appoints International Advisory body.
2. Transparent strategies regarding recruitment, internationalisation, EU research, outreach, PhD education, gender, teaching...
3. Stimulate scientist to participate in outreach activities.
4. Address gender situation.
5. Address the decreased teaching.

### **5.2. Hlavné body Akčného plánu organizácie a stav ich plnenia**

Cieľ: zvyšovať kvalitu publikovaných prác.

Stav plnenia: V roku 2019 bolo spolu 14 publikácií v časopisoch s impakt faktorom vyšším ako 8. Narastajúci počet citácií na články v predošlom roku svedčí o kvalite a aktuálnosti výskumných tém. Jeden z článkov bol zaradený na WOK medzi “highly cited papers”.

Cieľ: Navýšiť počet doktorandov na viac ako 20 a zlepšiť internacionalizáciu DŠ

Stav plnenia: V roku 2019 boli prijatí len zahraniční PhD študenti a celkový počet doktorandov je momentálne 22 s takmer polovičným podielom študentov zo zahraničia.

Cieľ: Aktivita v podávaní ERC a H2020 projektov.

Stav plnenia: V kategórii ERC je aktivita takmer nulová (jeden podaný projekt v roku 2019 ako spoluriešiteľ). V projektoch H2020 aktivita nie je nulová, ale úspešnosť podaných projektov bola počas celého sledovania veľmi nízka.

Cieľ: Vytvoriť nezávislý medzinárodný poradný výbor

Stav plnenia: zloženie výboru je nasledovné

- Prof. Jaroslav Fabian, Universität Regensburg
- Prof. Robert Kamiński, Instytut Fizyki Jądrowej im. Henryka Niewodniczańskiego, Krakow
- Prof. Dr. Jürgen Eckert, Montanuniversität Leoben

### **5.3. Aktualizácia Akčného plánu organizácie v roku 2019**

Akčný plán bol spravený v septembri 2017 na roky 2018 – 2020. Aktualizácia, resp. príprava nového akčného plánu je predmetom internej diskusie po nástupe nového riaditeľa. Aktuálny akčný plán bude v roku 2020 vyhodnotený a jeho aktualizácia na ďalšie obdobie prebehne v prvom kvartáli roku 2020.



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

### **6.1. Spoločné pracoviská organizácie**

#### **6.1.1. Spolupráca s univerzitami/VŠ (fakultami)**

**Názov univerzity/vysokej školy a fakulty:** Dokuz Eylul University Izmir, Turkey

**Oblasť spolupráce:** Termofyzikálne vlastnosti uhlíkových nanorúrok vyplňajúcich polymérne kompozity

**Sídlo spoločného pracoviska (ak je vytvorené):**

**Začiatok spolupráce:** 2016

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

**Názov univerzity/vysokej školy a fakulty:** Fakulta chemickej a potravinárskej technológie STU

**Oblasť spolupráce:** Experimenty na charakterizáciu vlastností keramickej peny

**Sídlo spoločného pracoviska (ak je vytvorené):**

**Začiatok spolupráce:** 2010

**Zhodnotenie:** Spolupráca je v oblasti merania termofyzikálnych parametrov keramickej peny za účelom optimalizácie technológie výroby.

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

**Oblasť spolupráce:** Spolupráca laboratórií elektrostatických urýchľovačov

**Sídlo spoločného pracoviska (ak je vytvorené):**

**Začiatok spolupráce:** 2017

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

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

**Oblasť spolupráce:** experimentálne

**Sídlo spoločného pracoviska (ak je vytvorené):**

**Začiatok spolupráce:** 2011

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

**Názov univerzity/vysokej školy a fakulty:** Prírodovedecká fakulta UK

**Oblasť spolupráce:** Katedra inžinierskej geológie

**Sídlo spoločného pracoviska (ak je vytvorené):**

**Začiatok spolupráce:** 2011

**Zhodnotenie:** Monitorovanie teplotno-vlhkostného režimu v tufovom masíve múzea sakálnych obydlí v Brhlovciach.

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

**Oblasť spolupráce:** Experimentálne a teoretické

**Sídlo spoločného pracoviska (ak je vytvorené):**

**Začiatok spolupráce:** 2010

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

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

**Oblasť spolupráce:** Ústav jadrového a fyzikálneho inžinierstva

**Sídlo spoločného pracoviska (ak je vytvorené):**

**Začiatok spolupráce:** 2011

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

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

### **6.1.2. Spoločné pracoviská s inými organizáciami SAV**

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

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

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

### **6.3. Spoločné projekty s univerzitami a ostatnými inštitúciami mimo SAV**

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

**Agentúra:**

**číslo projektu:**

**Spolupracujúce inštitúcie:** Arcibiskupský úrad, Bratislava

**Koordinátora projektu:**

**Začiatok spolupráce:** 2011

**Koniec spolupráce:** 0000

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

**Názov projektu:** Laboratórne merania termofyzikálnych vlastností hornín

**Agentúra:**

**číslo projektu:**

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

**Koordinátora projektu:**

**Začiatok spolupráce:** 2017

**Koniec spolupráce:** 0000

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

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

**Agentúra:**

**číslo projektu:**

**Spolupracujúce inštitúcie:** Katedra inžinierskej geológie, Univerzita Komenského, Bratislava  
**Koordinátora projektu:**  
**Začiatok spolupráce:** 2012  
**Koniec spolupráce:** 0000  
**Zhodnotenie:**

**Názov projektu:** Monitorovanie tuhnutia betónových zmesí

**Agentúra:**

**číslo projektu:**

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

**Koordinátora projektu:**

**Začiatok spolupráce:** 2010

**Koniec spolupráce:** 0000

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

**Názov projektu:** Laboratórne merania termofyzikálnych vlastností hliníkovej peny.

**Agentúra:**

**číslo projektu:**

**Spolupracujúce inštitúcie:** Ústav materiálov a mechaniky strojov, SAV

**Koordinátora projektu:**

**Začiatok spolupráce:** 2017

**Koniec spolupráce:** 0000

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

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

#### **6.4. Iné typy spoločných aktivít s inštitúciami mimo SAV**

## **7. Aplikácia výsledkov výskumu v spoločenskej a hospodárskej praxi**

### **7.1. Výsledky výskumu organizácie aplikované v praxi**

### **7.2. Kontraktový – zmluvný výskum (vrátane zahraničných kontraktov)**

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

## 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
Doc. RNDr. Emil Běták, DrSc.	Pracovná skupina pre fyziku Akreditačnej komisie	člen
RNDr. Stanislav Dubnička, DrSc.	Vláda SR	Splnomocnený zástupca vlády SR v SÚJV Dubna
Ing. Štefan Gmuca, CSc.	Národný tím technických expertov pre posudzovanie tovarov a technológií dvojakého použitia a vojenského materiálu	člen
RNDr. Stanislav Hlaváč, CSc.	Rada Úradu jadrového dozoru SR	člen rady
RNDr. Dušan Janičkovič	Národná podporná štruktúra pre Horizont 2020	Národný kontaktný bod pre Horizont 2020: Nanotechnológie, pokročilé materiály, výrobné procesy a postupy a biotechnológie
	Národná podporná štruktúra pre Horizont 2020	Národný expert pre Horizont 2020: Nanotechnológie, pokročilé materiály, výrobné procesy a postupy a biotechnológie
	Programový výbor pre Nanotechnológie, pokročilé materiály, biotechnológia, pokročilé výrobné procesy programu Horizon 2020	Delegát Programového výboru za SR
prof. Ing. Štefan Luby, DrSc.	pracovná skupina MŠVVŠ SR na prípravu Horizontu Europe	člen
	Programový výbor Horizont 2020 téma Bezpečné spoločnosti	člen za SR
RNDr. Eva Majková, DrSc.	Stála komisia Rady vlády pre vedu, techniku a inovácie	člen
	Komisia pre návrh štátnych vyznamenaní	člen
	pracovná skupina pre hodnotenie OP VaI	člen
	Monitorovací výbor Operačného programu Výskum a inovácie	člen
Mgr. Martin Venhart, PhD.	Výbor pre spoluprácu SR s CERN	tajomník výboru, koordinátor experimentov mimo LHC a teoretikov

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

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

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

<b>Meno pracovníka</b>	<b>Názov orgánu</b>	<b>Funkcia</b>
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## **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	32	tlač	3	TV	1
rozhlas	1	internet	1	exkurzie	2
publikácie	1	multimediálne nosiče	0	dokumentárne filmy	0
iné	8				

### 9.2. Vedecko-organizačná činnosť

Tabuľka 9b Vedecko-organizačná činnosť

Názov podujatia	Domáca/ medzinárodná	Miesto	Dátum konania	Počet účastníkov
RNP 2019 – Relativistic Nuclear Physics from Hundreds MeV to TeV	medzinárodná	Stará Lesná, Slovensko	26.05.-01.06.2019	-
CEQIP 2019 – Central European Quantum Information Processing	medzinárodná	Skalica, Slovensko	03.06.-06.06.2019	-
APCOM 2019 – Applied Physics of Condensed Matter	medzinárodná	Štrbské Pleso, Slovensko	19.06.-21.06.2019	-
IC-MSQUARE 2019 – 8th Int. Conference on Mathematical Modeling in Physical Sciences	medzinárodná	Bratislava, Slovensko	26.08.-30.08.2019	-
CUF-MAST 2019 – Central Europe Forum for Materials and Applications for Sensors and Transducers, 8th IC-MAST	medzinárodná	Bratislava, Slovensko	02.09.-05.09.2019	-
2019 QUAPITAL Summer School	medzinárodná	Bratislava, Slovensko	30.09.-04.10.2019	35
ISTROS 2019 – Isospin, STructure, Reactions and energy Of Symmetry	medzinárodná	Častá-Papiernička, Slovensko	20.10.-25.10.2019	50
SURFINT-SREN 2019 – Progress in Applied Surface, Interface and Thin Film Science	medzinárodná	Florenca, Taliansko	18.11.-21.11.2019	-

### 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

Ing. Vlastimil Boháč, CSc.

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

Prof. RNDr. Vladimír Bužek, DrSc.

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

RNDr. Stanislav Dubnička, DrSc.

MEDICUS (funkcia: člen red. rady)

Mgr. Andrej Gendiar, PhD.

Acta Physica Slovaca (funkcia: výkonný redaktor)

Ing. Štefan Lányi, DrSc.

Československý časopis pro fyziku (funkcia: člen RR)

prof. Ing. Štefan Luby, DrSc.

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

Doc. RNDr. Martin Plesch, PhD.

IYPT Magazine (funkcia: člen Advisory Board)  
Nature Scientific Reports (funkcia: člen Editorial board)

prof. Ing. Ivan Štich, DrSc.

Acta Physica Slovaca (funkcia: editorial board)

Ing. Peter Švec, DrSc.

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



Mgr. Martin Veselský, PhD.

Nuclear Science and Techniques (funkcia: člen redakčnej rady)

## **9.6. Činnosť v domácich vedeckých spoločnostiach**

Mgr. Erik Bartoš, PhD.

Slovenská fyzikálna spoločnosť (funkcia: člen)

Doc. RNDr. Emil Běták, DrSc.

Jednota slov. matematikov a fyzikov (funkcia: člen)

RNDr. Juraj Boháčik, CSc.

Slovenská fyzikálna spoločnosť (funkcia: hospodár)

RNDr. Pavol Butvin, CSc.

Slovenská fyzikálna spoločnosť (funkcia: člen)

Slovenská magnetická spoločnosť pri SVTS (funkcia: člen)

RNDr. Beata Butvinová, CSc.

Slovenská fyzikálna spoločnosť (funkcia: člen)

Slovenská magnetická spoločnosť pri SVTS (funkcia: člen)

RNDr. Stanislav Dubnička, DrSc.

Slovenská fyzikálna spoločnosť (funkcia: člen)

Mgr. Andrej Gendiar, PhD.

Slovenská fyzikálna spoločnosť (funkcia: člen)

Ing. Štefan Gmuca, CSc.

Slovenská fyzikálna spoločnosť (funkcia: podpredseda)

RNDr. Katarína Gmucová, CSc.

Slovenská fyzikálna spoločnosť (funkcia: člen)

Ing. Matej Jergel, DrSc.

Jednota slovenských matematikov a fyzikov (funkcia: člen)

Slovenská fyzikálna spoločnosť (funkcia: člen)

Učená spoločnosť Slovenska (funkcia: člen)

RNDr. Pavol Kalinay, CSc.

Slovenská fyzikálna spoločnosť (funkcia: člen)

RNDr. Marián Krajčí, DrSc.

Slovenská fyzikálna spoločnosť (funkcia: člen)

Ing. Štefan Lányi, DrSc.

Slovenská fyzikálna spoločnosť (funkcia: predseda revíznej komisie)

Dr.Rer.Nat. Ing. Mgr. Andrej Liptaj, PhD.

Slovenská fyzikálna spoločnosť (funkcia: člen)

RNDr. Štefan Olejník, DrSc.

Učená spoločnosť SAV (funkcia: riadny člen)

Doc. RNDr. Martin Plesch, PhD.

Odborná komisia Turnaja mladých fyzikov (funkcia: podpredseda)

RNDr. Daniel Reitzner, PhD.

Club of Individualities, Intenda Foundation (funkcia: Member)

prof. Ing. Ivan Štich, DrSc.

Učená spoločnosť SAV (funkcia: riadny člen)

Ing. Peter Švec, DrSc.

Učená spoločnosť SAV (funkcia: riadny člen)

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

V rámci podujatia Týždeň vedy a techniky na Slovensku, 4. — 8. 11. 2019 FÚ SAV zorganizoval vlastný „(Týž)Deň otvorených dverí na FÚ SAV 2019“ určený širokej verejnosti, ale hlavne študentom stredných a vysokých škôl. Počas týždňa venovaného prednáškam a prehliadkam laboratórií Nanolab, Laboratória fyziky kovov s transmisným elektrónovým mikroskopom nás navštívilo päť skupín stredoškôľakov z rôznych gymnázií Bratislavského kraja. Spolu si vypočuli sedem populárnych prednášok a absolvovali päť prehliadok našich laboratórií.

Na podujatí odzneli prednášky:

- Cyril Adamuščín: „Plochá či guľatá“
- Andrej Gendiar: „Kvantová fyzika na zakrivenom priestore“
- Andrej Liptaj: „Zobrazovanie pomocou magnetickej rezonancie“
- Martin Plesch: „Fyzika očami fyzikov“
- Michal Sedlák: „Nakuknutie do sveta kvantového počítania a kryptografie“
- Martin Venhart: „Ako vyzerá periodická sústava chemických prvkov v 21. storočí“

Pracovníci FÚ SAV sa zúčastnili na Európskej Noci výskumníkov 2019 kde v samostatných stánkoch zoznamovali účastníkov s neznámymi vlastnosťami nanosveta a jeho pestrými farbami (Farebný svet nanočastíc) a šifrátori z Centra pre výskum kvantovej informácie pripravili pre vaše potešenie šifrovaciu hru D3\$ifru7 (<http://sifrovacka.nocvyskumnikov.sk/2019/>).

## 10. Činnosť knižnično-informačného pracoviska

### 10.1. Knižničný fond

Tabuľka 10a Knižničný fond

Knižničné jednotky spolu		
z toho	knihy a zviazané periodiká	9592
	audiovizuálne dokumenty	
	elektronické dokumenty (vrátane digitálnych)	
	mikroformy	
	iné špeciálne dokumenty - dizertácie, výskumné správy	
	Rukopisy, vzácne tlače	
Počet titulov dochádzajúcich periodík		21
z toho zahraničné periodiká		20
Ročný prírastok knižničných jednotiek		20
v tom	kúpou	20
	darom	
	výmenou	
	bezodplatným prevodom	
	náhradou	
Úbytky knižničných jednotiek		
Knižničné jednotky spracované automatizovane		1356

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)		416
v tom z r. 1	prezenčné výpožičky	341
	absenčné výpožičky	
v tom z r. 1	odborná literatúra pre dospelých	
	výpožičky periodík	75
MVS iným knižniciam		28
MVS z iných knižníc		
MMVS iným knižniciam		
MMVS z iných knižníc		
Počet vypracovaných bibliografií		

Počet vypracovaných rešerší	2
-----------------------------	---

### 10.3. Používatelia

Tabuľka 10c Používatelia

Registrovaní používatelia	100
Návštevníci knižnice spolu (bez návštevníkov podujatí)	107

### 10.4. Iné údaje

Tabuľka 10d Iné údaje

On-line katalóg knižnice na internete ( 1=áno, 0=nie)	1
Náklady na nákup knižničného fondu v €	1507

### 10.5. Iné informácie o knižničnej činnosti

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

## **11. Aktivity v orgánoch SAV**

### **11.1. Členstvo vo Výbore Snemu SAV**

RNDr. Katarína Gmucová, CSc.

- členka
- predsedníčka I. komory

### **11.2. Členstvo v Predsedníctve SAV a vo Vedeckej rade SAV**

Mgr. Martin Venhart, PhD.

- Člen Predsedníctva SAV
- Člen Vedeckej rady SAV

### **11.3. Členstvo vo vedeckých kolégiách SAV**

### **11.4. Členstvo v komisiách SAV**

Mgr. Andrej Gendiar, PhD.

- Edičná rada SAV (člen)

RNDr. Katarína Gmucová, CSc.

- Akreditačná komisia SAV (členka)
- Komisia pre transformáciu SAV (členka)
- Legislatívna komisia SAV (členka)
- Škodová komisia SAV (členka)

Ing. Matej Jergel, DrSc.

- Komisia SAV pre vyhodnocovanie medzinárodných projektov (člen)

Ing. Peter Švec, DrSc.

- Komisia SAV pre rovnosť príležitostí (člen)

Mgr. Martin Venhart, PhD.

- Komisia SAV pre komunikáciu a médiá (Člen komisie)
- Komisia SAV pre rovnosť príležitostí (Člen komisie)
- Komisia SAV pre spoluprácu s vedeckými spoločnosťami (Člen komisie)
- Rada SAV pre program Otvorená akadémia (Predseda)

## **11.5. Členstvo v orgánoch VEGA**

Ing. Ján Ivančo, DrSc.

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

Ing. Matej Jergel, DrSc.

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

RNDr. Marián Krajčí, DrSc.

- Komisia č. 1 (člen)

RNDr. Igor Matko, CSc.

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

Mgr. Martin Veselský, PhD.

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

## 12. Hospodárenie organizácie

### 12.1. Výdavky organizácie

Tabuľka 12a Výdavky organizácie (skutočnosť k 31. 12. 2019 v €)

Typ organizácie (PO)		Zdroje, z ktorých sa kryli jednotlivé výdavky			
Výdavky	Spolu	kapitola SAV (111)	iné štátne a verejné zdroje	ostatné zdroje	% krytia z kapitoly SAV
<b>1. Bežné výdavky</b>	3359006	2288385	684262	386359	68
z toho: mzdy (610)	1509316	1319709	129934	59673	87
vedecká výchova štipendiá (640)	182511	163861	17916	734	90
poistné a príspevok do poisťovní (620)	516606	448818	45450	22338	87
tovary a služby (630)	897829	353897	316703	227229	39
transfery partnerom projektov (640)	252744	2100	174259	76385	83
<b>2. Kapitálové výdavky</b>	30475	18967	0	11508	62
z toho: obstarávanie kapitálových aktív	30475	18967	0	11508	62
kapitálové transfery					

### 12.2. Zdroje financovania organizácie

Tabuľka 12b Zdroje financovania organizácie (skutočnosť k 31. 12. 2019 v €)

Typ organizácie (PO)		Z toho kategórie			
Zdroje	Spolu	Kapitálové zdroje	zdroje na mzdy (610)	zdroje na odvody do poisťovní (620)	zdroje na transfery partnerom projektov
<b>1. kapitola SAV (111)</b>	2315751	18967	1319709	448818	
z toho: VEGA	162271				
MVTS výskumné projekty	46211	15510			
MVTS podpora	5949				
SASPRO/MOREPRO	37155				
Vydávanie časopisov	3776				
Vedecká výchova (štipendiá)	163861				
OTAS (630)	146190				



<b>2. ŠF EÚ vr. fin. zo ŠR</b>					
<b>3. medzinárodné grantové projekty</b>	207352		51562	18166	
z toho: H2020	69728		51562	18166	
<b>4. iné štátne a verejné zdroje (spolu)</b>	684262		126673	44310	168629
z toho: APVV	489964		126673	44310	168629
podpora z kapitoly MŠVVaŠ SR (stimuly)	47000	10700	24000	7948	
<b>5. ostatné zdroje</b>	17965				
z toho: príjmy z prenájmu	17965				
príjmy z podnikateľskej činnosti					
príjmy z expertnej činnosti a služieb					

### **13. Nadácie a fondy pri organizácii SAV**

### **14. Iné významné činnosti organizácie SAV**

## **15. Vyznamenania, ocenenia a ceny udelené pracovníkom organizácie v roku 2019**

### **15.1. Domáce ocenenia**

#### **15.1.1. Ocenenia SAV**

##### **Tiwari Rupali**

Young Investigator Award Competition MASUREMENT 2019

*Oceňovateľ: IMS SAS*

*Opis: Best Poster Presentation*

#### **15.1.2. Iné domáce ocenenia**

##### **Luby Štefan**

Plaketa pri 25. výročí ozbrojených síl SR

*Oceňovateľ: Ministerstvo obrany SR*

*Opis: kov, priemer 5 cm*

### **15.2. Medzinárodné ocenenia**

**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)**

## **17. Problémy a podnety pre činnosť SAV**

- Reagovať na problémy a podnety aj z minulých rokov.
- MVTS, VEGA – poslať nepriame náklady v týchto projektoch sumárne priamo ako režijný príspevok ústavu, resp. umožniť vydokladovať nepriame náklady ako položku – réžia ústavu.
- Vytvoriť centrálny fond na výplatu rekreačných poukazov. Nevyčerpaná časť sa prerozdeli podľa výkonnového financovania.

**Správu o činnosti organizácie SAV spracoval(i):**

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

**Riaditeľ organizácie SAV**

**Predseda vedeckej rady**

.....  
Doc. Mgr. Mário Ziman, PhD.

.....  
Ing. Štefan Gmuca, CSc.

## Prílohy

### Príloha A

#### Zoznam zamestnancov a doktorandov organizácie k 31.12.2019

##### Zoznam zamestnancov podľa štruktúry

	Meno s titulmi	Úväzok (v %)	Ročný prepočítaný úväzok
<b>Vedúci vedeckí pracovníci DrSc.</b>			
1.	Doc. RNDr. Emil Běták, DrSc.	70	0.66
2.	Prof. RNDr. Vladimír Bužek, DrSc.	100	1.00
3.	RNDr. Stanislav Dubnička, DrSc.	75	0.75
4.	Prof.RNDr. Miroslav Grajcar, DrSc.	25	0.25
5.	Ing. Ján Ivančo, DrSc.	100	1.00
6.	Ing. Matej Jergel, DrSc.	100	1.00
7.	Ing. Ján Kliman, DrSc.	70	0.70
8.	RNDr. Marián Krajčí, DrSc.	100	1.00
9.	Ing. Štefan Lányi, DrSc.	70	0.70
10.	prof. Ing. Štefan Luby, DrSc.	100	1.00
11.	RNDr. Eva Majková, DrSc.	50	0.50
12.	RNDr. Miroslav Nagy, DrSc.	100	0.13
13.	RNDr. Ladislav Šamaj, DrSc.	100	1.00
14.	prof. Ing. Ivan Štich, DrSc.	100	1.00
15.	Ing. Peter Švec, DrSc.	100	1.00
<b>Vedúci vedeckí pracovníci CSc., PhD.</b>			
1.	Mgr. Andrej Gendiar, PhD.	100	1.28
2.	RNDr. Stanislav Hlaváč, CSc.	100	1.00
<b>Samostatní vedeckí pracovníci</b>			
1.	Mgr. Cyril Adamuščin, PhD.	100	1.00
2.	Mgr. Erik Bartoš, PhD.	100	1.00
3.	Ing. Vlastimil Boháč, CSc.	100	1.00
4.	RNDr. Juraj Boháčík, CSc.	50	0.50
5.	Mgr. Ján Brndiar, PhD.	100	1.00
6.	RNDr. Pavol Butvin, CSc.	33	0.33
7.	RNDr. Beata Butvinová, CSc.	100	1.00
8.	Mgr. Peter Filip, PhD.	100	0.00
9.	Ing. Štefan Gmuca, CSc.	100	1.00

10.	RNDr. Katarína Gmucová, CSc.	100	1.00
11.	Mgr. Andrej Herzáň, PhD.	100	1.00
12.	RNDr. Pavol Kalinay, CSc.	100	1.00
13.	Mgr. Roman Krčmár, PhD.	100	1.00
14.	Dr.Rer.Nat. Ing. Mgr. Andrej Liptaj, PhD.	100	1.00
15.	RNDr. Lubomir Martinovič, CSc.	100	0.00
16.	RNDr. Igor Maťko, CSc.	100	1.00
17.	Ing. Vladislav Matoušek, CSc.	100	1.00
18.	RNDr. Marek Mihalkovič, CSc.	100	1.00
19.	Ing. Vojtech Nádaždy, CSc.	100	1.00
20.	Mgr. Daniel Nagaj, PhD.	100	0.28
21.	RNDr. Emil Pinčík, CSc.	100	1.00
22.	RNDr. Matej Pivoluska, PhD.	100	1.00
23.	Doc. RNDr. Martin Plesch, PhD.	100	1.00
24.	RNDr. Daniel Reitzner, PhD.	70	0.85
25.	RNDr. Anton Repko, PhD.	100	0.56
26.	Mgr. Michal Sedlák, PhD.	100	1.00
27.	Ing. Mgr. Peter Staňo, PhD.	25	0.25
28.	RNDr. Ondrej Šauša, CSc.	100	1.00
29.	Dr. Rer. Nat. Peter Šiffalovič, PhD.	70	0.85
30.	Ing Peter Švec Jr., PhD.	100	1.00
31.	Ing. Igor Travěnek, CSc.	100	1.00
32.	RNDr. Robert Turanský, PhD.	100	1.00
33.	Mgr. Martin Venhart, PhD.	90	0.90
34.	Ing. Viliam Vretenár, PhD.	50	0.50
35.	Doc. Mgr. Mário Ziman, PhD.	100	1.00
<b>Vedeckí pracovníci</b>			
1.	Mgr. Adriana Annušová, PhD.	100	1.00
2.	RNDr. Róbert Brunner, CSc.	100	1.00
3.	Mgr. Katarína Čechová, PhD.	10	0.07
4.	Ing. Yuriy Halahovets, PhD.	100	1.00
5.	RNDr. Monika Hofbauerová, PhD.	100	0.26
6.	Ing. Ján Hudec, PhD.	34	0.34
7.	Ing. Irena Janotová, PhD.	100	0.49
8.	Mgr. Dušan Kamas, PhD.	100	0.00

9.	Ing. Pavol Konopka, PhD.	100	0.33
10.	Ing. Mário Kotlár, PhD.	10	0.10
11.	Mgr. Martina Miklošovičová, PhD.	50	0.50
12.	Mgr. Mohammed Hamed Mohammady, PhD.	100	0.77
13.	RNDr. Nad'a Mrkývková, PhD.	70	0.85
14.	Mgr. Peter Rapčan, PhD.	100	1.28
15.	Ing. Jaroslav Rusnák, PhD.	100	1.00
16.	Dr. Sheik Sazim, PhD.	100	0.16
17.	Ing. Matúš Sedlák, PhD.	100	0.37
18.	Mgr. Ján Škoviera, PhD.	100	1.00
19.	Ing. Vladimír Štofanič, PhD.	25	0.25
20.	Dr. Sourbh Thakur, PhD.	100	0.23
21.	RNDr. Kamil Tokár, PhD.	100	1.00
22.	Mgr. Karol Végső, PhD.	90	0.96
23.	Dr. Sebastian Vielhauer, PhD.	50	0.21

**Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)**

1.	Mgr. Matúš Balogh	5	0.05
2.	Mgr. Michal Bodík	5	0.05
3.	Mgr. Alica Brunová	5	0.05
4.	Mgr. Mirdit Doda	5	0.05
5.	Ing. Alen Fos	5	0.02
6.	Mgr. Jakub Hagara	5	0.05
7.	Mgr. Vladimír Held	5	0.02
8.	RNDr. Dušan Janičkovič	100	1.00
9.	Ing. Anna Kálosi	100	0.37
10.	Mgr. Gulnur Kantay	5	0.05
11.	Mgr. Jozef Klimó	100	0.25
12.	Mgr. Jakub Krajňák	5	0.05
13.	Mgr. Peter Nádaždy	5	0.05
14.	Mgr. Jaroslav Pavličko	5	0.05
15.	Mgr. Eva Pospíšilová	5	0.05
16.	Ing. Rudolf Senderák, Piešťany	30	0.30
17.	MSc. Ashin Shaji	5	0.05
18.	Mgr. Shivang Srivastava	5	0.04
19.	Mgr. Riyas Subair	5	0.05



20.	Mgr. Andrej Špaček	5	0.02
21.	Mgr. Rupali Tiwari	5	0.05
22.	Mgr. Róbert Urban	100	0.18
<b>Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)</b>			
1.	Mgr. Ursula Juhásová	55	0.00
2.	Ing. Mária Jusková	35	0.35
3.	Ing. Lenka Kabátová	50	0.56
4.	Ing. Jana Kováčová	100	1.00
5.	Ing. Beata Solčianska	100	1.00
6.	Mgr. Mária Surovcová, PhD.	100	1.00
7.	Mgr. Angelika Winczerová	128	1.28
<b>Odborní pracovníci ÚSV</b>			
1.	Silvia Bačová	100	1.00
2.	Marta Bubničová	100	1.00
3.	Michal Halász	100	1.00
4.	Emília Hoffmannová	100	1.00
5.	Jana Koláriková	100	1.00
6.	Štefan Lučanský, dielňa	100	1.00
7.	Marian Markovič	100	1.00
8.	Gustáv Pomšár, Ved. dielňa, technik	100	1.00
9.	Ivan Sabo	60	0.60
10.	Oľga Švančarová	70	0.70
11.	Zita Vaňovičová	75	0.44
12.	Rebeca Voleková	50	0.23
13.	Peter Zitto	50	0.50
14.	Jana Zvončeková, Piešťany	100	1.00

#### **Zoznam zamestnancov, ktorí odišli v priebehu roka**

	<b>Meno s titulmi</b>	<b>Dátum odchodu</b>	<b>Ročný prepočítaný úväzok</b>
<b>Samostatní vedeckí pracovníci</b>			
1.	RNDr. Pavol Butvin, CSc.	31.12.2019	0.33
<b>Vedeckí pracovníci</b>			
1.	RNDr. Tomáš Krajňák, PhD.	30.4.2019	0.33
2.	Mgr. Lubos Krupa, PhD.	31.8.2019	0.00
<b>Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)</b>			

1.	Mgr. Jozef Klimo	31.12.2019	0.25
2.	Ing. Martina Zemanová	15.1.2019	0.02
<b>Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)</b>			
1.	Mgr. Mária Kopecká	2.7.2019	0.07
<b>Odborní pracovníci ÚSV</b>			
1.	Blanka Nemčovská	31.5.2019	0.27

#### Zoznam doktorandov

	Meno s titulmi	Škola/fakulta	Študijný odbor
<b>Interní doktorandi hrazení z prostředkov SAV</b>			
1.	Mgr. Matúš Balogh	Fakulta matematiky, fyziky a informatiky UK	4.1.5 jadrová a subjadrová fyzika
2.	Mgr. Michal Bodík	Fakulta matematiky, fyziky a informatiky UK	4.1.4 kvantová elektronika a optika
3.	Mgr. Alica Brunová	Fakulta matematiky, fyziky a informatiky UK	4.1.4 kvantová elektronika a optika
4.	Mgr. Mirdit Doda	Fakulta matematiky, fyziky a informatiky UK	4.1.2 všeobecná fyzika a matematická fyzika
5.	Ing. Alen Fos	Fakulta elektrotechniky a informatiky STU	5.2.48 fyzikálne inžinierstvo
6.	Mgr. Jakub Hagara	Fakulta matematiky, fyziky a informatiky UK	4.1.4 kvantová elektronika a optika
7.	Mgr. Vladimír Held	Fakulta matematiky, fyziky a informatiky UK	4.1.4 kvantová elektronika a optika
8.	Mgr. Gulnur Kantay	Fakulta matematiky, fyziky a informatiky UK	4.1.5 jadrová a subjadrová fyzika
9.	Mgr. Jozef Klimo	Fakulta matematiky, fyziky a informatiky UK	4.1.5 jadrová a subjadrová fyzika
10.	Mgr. Jakub Krajňák	Fakulta matematiky, fyziky a informatiky UK	4.1.5 jadrová a subjadrová fyzika
11.	Mgr. Peter Nádaždy	Fakulta matematiky, fyziky a informatiky UK	4.1.4 kvantová elektronika a optika
12.	MSc. Sudarsanan Ragini Nidhin	Fakulta matematiky, fyziky a informatiky UK	4.1.2 všeobecná fyzika a matematická fyzika
13.	Mgr. Jaroslav Pavličko	Fakulta matematiky, fyziky a informatiky UK	4.1.2 všeobecná fyzika a matematická fyzika
14.	Mgr. Eva Pospíšilová	Fakulta matematiky, fyziky a informatiky UK	4.1.2 všeobecná fyzika a matematická fyzika
15.	Mgr. Farnoush Salehtash	Fakulta matematiky, fyziky a informatiky UK	4.1.4 kvantová elektronika a optika
16.	MSc. Ashin Shaji	Fakulta matematiky, fyziky a informatiky UK	4.1.4 kvantová elektronika a optika
17.	Mgr. Shivang Srivastava	Fakulta matematiky, fyziky a informatiky UK	4.1.2 všeobecná fyzika a matematická fyzika
18.	Mgr. Riyas Subair	Fakulta matematiky, fyziky a informatiky UK	4.1.4 kvantová elektronika a optika
19.	Mgr. Andrej Špaček	Fakulta matematiky, fyziky	4.1.5 jadrová a subjadrová

		a informatiky UK	fyzika
20.	Mgr. Rupali Tiwari	Fakulta elektrotechniky a informatiky STU	5.2.48 fyzikálne inžinierstvo
21.	Mgr. Róbert Urban	Fakulta matematiky, fyziky a informatiky UK	4.1.5 jadrová a subjadrová fyzika
22.	MSc. Nana Siddhartha Yenamandala	Fakulta matematiky, fyziky a informatiky UK	4.1.2 všeobecná fyzika a matematická fyzika
<b>Interní doktorandi hrazení z iných zdrojov</b>			
<i>organizácia nemá interných doktorandov hrazených z iných zdrojov</i>			
<b>Externí doktorandi</b>			
<i>organizácia nemá externých doktorandov</i>			

**Zoznam zamestnancov prijatých do jedného roka od získania PhD.**

	<b>Meno s titulmi</b>	<b>Dátum obhajoby</b>	<b>Dátum prijatia</b>	<b>Úväzok (v %)</b>
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**Zoznam emeritných vedeckých zamestnancov**

	<b>Meno s titulmi</b>
1.	RNDr. Mária Hartmanová, DrSc.
2.	RNDr. Emília Illeková, DrSc.
3.	Ing. Ľudovít Kubičár, DrSc.
4.	Prof., RNDr. Eva Majerníková, DrSc.
5.	RNDr. Peter Mrafko, CSc.
6.	RNDr. Anton Šurda, CSc.

## Príloha B

### Projekty riešené v organizácii

#### Medzinárodné projekty

#### Programy: Medzivládna dohoda

##### 1.) Grant vládneho splnomocnenca — SÚJV (JINR)

**Zodpovedný riešiteľ:** Emil Běták  
**Trvanie projektu:** 1.1.2019 / 31.12.2023  
**Evidenčné číslo projektu:** 01-3-1135-2019/2023  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 1 - Rusko: 1  
**Čerpané financie:** SÚJV: 5362 €

##### Dosiahnuté výsledky:

##### 2.) Cieľový projekt — Theoretical study of heavy and exotic hadrons properties in the framework of a relativistic quark model (*Theoretical study of heavy and exotic hadrons properties in the framework of a relativistic quark model*)

**Zodpovedný riešiteľ:** Stanislav Dubnička  
**Trvanie projektu:** 1.7.2017 / 31.12.2023  
**Evidenčné číslo projektu:** 01-3-1135-2019/2023  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Spojený ústav jadrových výskumov v Dubne  
**Počet spoluriešiteľských inštitúcií:** 1 - Rusko: 1  
**Čerpané financie:** SÚJV: 26810 €

##### Dosiahnuté výsledky:

V spolupráci s kolegami z BLTP, Dubna a FMPI, Bratislava, bol rozvinutý model na popis rozpadu ťažkého tetrakvarku  $Y(4260)$  s uvažovaním viacerých rozpadových kanálov: konečných stavov " $Z_c(3900)+\pi$ " a " $D(*)+\bar{D}^{(*)}$ " (kde zátvorky vyjadrujú rôzne alternatívy). Správny popis by mal viesť k pozorovanej šírke rozpadu v prvom prípade a k malým rozpadovým šírkam v prípade druhom, keďže ani jeden z možných koncových stavov, ktoré v tomto prípade zápis zahŕňa, pozorovaný nebol. Modelom sme vyhodnotili dva scenáre: popis  $Y$  tetrakvarku ako molekuly a tiež ako "pravého" tetrakvarku. Porovnanie výsledkov a nameraných údajov naznačuje, že  $Y$  by sa mohol správať ako molekula dvoch di-kvarkov.

##### 3.) Grant vládneho splnomocnenca — SÚJV (JINR)

**Zodpovedný riešiteľ:** Stanislav Dubnička  
**Trvanie projektu:** 1.1.2009 / 31.12.2019  
**Evidenčné číslo projektu:** 02-0-1081-2009/2019  
**Organizácia je koordinátorom projektu:** nie

**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 1 - Rusko: 1  
**Čerpané financie:** SÚJV: 7149 €

Dosiahnuté výsledky:

**4.) Cieľový projekt — Investigation of relativistic nuclear interactions at the NUCLOTRON/NICA accelerator complex** (*Investigation of relativistic nuclear interactions at the NUCLOTRON/NICA accelerator complex*)

**Zodpovedný riešiteľ:** Štefan Gmuca  
**Trvanie projektu:** 1.9.2009 / 31.12.2020  
**Evidenčné číslo projektu:** 02-1-1087-2009/2020  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Spojený ústav jadrových výskumov  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** SÚJV: 26810 €

Dosiahnuté výsledky:

Projekt je venovaný problematike hľadania a štúdia exotických eta-mezónových jadier v pA a dA zrážkach na Nuklotróne LFVE SÚJV s modifikovaným detekčným zariadením SCAN3. Bol testovaný prototyp neutrónového detektora so 4 scintilacnými vrstvami. Bola zmeraná účinnosť detektora 27 %. Bol zistený prah produkcie eta-jadier pri energii deuterónov 0,8 GeV/nukleón. V rámci vývoja hybridného magnetického spektrometra SCAN-3 na detekciu nabitých a neutrálnych častíc produkovaných v stanici vnútorných terčov na Nuklotróne. V uplynulom období sme sa venovali najmä vývoju algoritmov off-line spracovania digitalizovaných signálov z detektorov SCAN3 v prostredí systému ROOT. Vypracovali sme algoritmus rýchlej detekcie pulzov a ich uchovania spolu s časovou informáciou. Pre umožnenie správneho nastavenia meracej aparatury sme vypracovali a otestovali subsystém on-line zobrazenia niektorých kritických parametrov zberu dát.

**5.) Grant vládneho splnomocnenia — Investigation of relativistic nuclear interactions at the NUCLOTRON/NICA accelerator complex** (*Investigation of relativistic nuclear interactions at the NUCLOTRON/NICA accelerator complex*)

**Zodpovedný riešiteľ:** Štefan Gmuca  
**Trvanie projektu:** 1.1.2009 / 31.12.2020  
**Evidenčné číslo projektu:** 02-1-1087-2009/2020  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Spojený ústav jadrových výskumov v Dubne  
**Počet spoluriešiteľských inštitúcií:** 1 - Rusko: 1  
**Čerpané financie:** SÚJV: 7149 €

Dosiahnuté výsledky:

## **6.) Cieľový projekt — Research on Relativistic Heavy and Light Ion Physics** (*Research on Relativistic Heavy and Light Ion Physics*)

**Zodpovedný riešiteľ:** Ján Kliman  
**Trvanie projektu:** 1.1.2009 / 31.12.2021  
**Evidenčné číslo projektu:** 03-5-1130-2017/2021  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Spojený ústav jadrových výskumov v Dubne  
**Počet spoluriešiteľských inštitúcií:** 1 - Rusko: 1  
**Čerpané financie:** SÚJV: 26810 €

### Dosiahnuté výsledky:

Projekt Eta-jadrá je venovaný problematike hľadania a štúdia exotických eta-mezónových jadier v pA a dA zrážkach na Nuklotróne LFVE SÚJV a je v štádiu budovania modifikovaného detekčného zariadenia SCAN3. V rámci projektu sa buduje nový hybridný magnetický spektrometer SCAN-3 na

detekciu nabitých a neutrálnych častíc produkovaných v stanici vnútorných terčov na Nuklotróne. Boli vyvinuté nové algoritmy pre offline spracovanie digitalizovaných signálov z detektorov v prostredí systému ROOT. Bol testovaný prototyp neutrónového detektora so 4 scintilačnými vrstvami a určená účinnosť detektora 27 %.

Boli skúmané fyzikálne procesy, ktoré vplývajú na vytvorenie mezónových jadier z excitovaných jadier – rezíduí, ktoré sa zúčastňujú na primárnych interakciách. Bolo zistené, že excitácia jadier – rezíduí je kolektívneho charakteru, kedy veľká skupina nuklónov vykazuje korelovaný pohyb už pri primárnej zrážke. Bolo zistené, že kolektívny pohyb má silný vplyv na formovanie mezónového jadra. Experimentálne bol zistený rezonančný charakter interakcie d+C. V spektre efektívnych hmotností  $\pi^-?$  párov v oblasti 1500 MeV/c<sup>2</sup> bola vyhodnotená rezonancia s  $M_{\text{eff}}=1447,8 \pm 3,6$  MeV/c<sup>2</sup> a šírkou  $\Delta M=38,8 \pm 10,4$  MeV/c<sup>2</sup>.

## **7.) Grant vládneho splnomocnenca — Synthesis and Properties of Superheavy Elements, Structure of Nuclei and Limits of Nuclear Stability** (*Synthesis and Properties of Superheavy Elements, Structure of Nuclei and Limits of Nuclear Stability*)

**Zodpovedný riešiteľ:** Ján Kliman  
**Trvanie projektu:** 1.1.2017 / 31.12.2021  
**Evidenčné číslo projektu:** 03-5-1130-2017/2021  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Spojený ústav jadrových výskumov v Dubne  
**Počet spoluriešiteľských inštitúcií:** 1 - Rusko: 1  
**Čerpané financie:** SÚJV: 7149 €

### Dosiahnuté výsledky:

Významné výsledky boli dosiahnuté v systematickej práci, orientovanej na určenie absolútnych účinných prierezov tvorby výparných rezíduí pri reakciách ťažkých iónov <sup>36</sup>Ar, <sup>40</sup>Ar, <sup>40</sup>Ca a <sup>48</sup>Ca s jadrami <sup>144</sup>Sm, <sup>166</sup>Er, a <sup>nat</sup>Sm blízkyh uzavretej neutrónovej šupke N=126. Jadrové reakcie boli realizované pri nízkej excitačnej energii, v oblasti Coulombovskej bariéry.

V procese totálnej fúzie kombinácie deformovaných a nedeformovaných jadier terča a projektilu bolo zistené, že výška bariéry sa v závislosti od ich deformácie mení o 5 až 7 MeV. Výsledok bol získaný prvýkrát. Absolútne hodnoty účinných prierezov a excitačných funkcií boli získané pre 6

výparných kanálov.

S cieľom zvýšiť efektívnosť hmotnostného spektrometra MASHA bola experimentálne skúmaná vhodnosť použitia nových materiálov z polygrafénu a z uhlíkových nanotrubiiek vo forme fólií, ako nosného materiálu pre tepelne extrémne namáhané terče Pu jadier. Bolo zistené, že najvyššiu reemisiu produktov jadrových reakcií vykazujú fólie z uhlíkových nanotrubiiek.

**8.) Cieľový projekt — Vytvorenie elektronickej aparatury pre experimenty v relativistickej fyzike ťažkých a ľahkých iónov na urýchľovači Nuclotron** (*Creation of electronic equipment for experiments in relativistic nuclear physics of heavy and light ions at the Nuclotron accelerator*)

**Zodpovedný riešiteľ:** Vladislav Matoušek  
**Trvanie projektu:** 1.1.2012 / 31.12.2020  
**Evidenčné číslo projektu:** 02-1-1087-2009/2020  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 1 - Rusko: 1  
**Čerpané financie:** SÚJV: 26810 €

Dosiahnuté výsledky:

Projekt je venovaný problematike hľadania a štúdia exotických eta-mezónových jadier v pA a dA zrážkach vo VBLHEP JINR pomocou detekčného zariadenia SCAN-3. Hybridný magnetický spektrometer SCAN-3 je určený na detekciu nabitých a neutrálnych častíc produkovaných v stanici vnútorných terčov na Nuklotrone. V priebehu roku bol testovaný prototyp neutrónového detektora so 4 scintilačnými vrstvami a bola zmeraná účinnosť detektora (27 %). Taktiež bol zistený prah produkcie eta-jadier pri energii deuterónov 0,8 GeV/nukleón.

V oblasti vývoja nových metód spracovania nameraných dát z experimentov boli vyvinuté nové algoritmy viackanálovej iteratívnej dekonvolúcie, ktoré zlepšujú detekciu pík v zašumených experimentálnych dátach. Ďalej sa zdokonalil algoritmus rýchlej detekcie pulzov v on-line režime počas experimentu. To umožní presnejšie nastavenie meracej aparatury.

V uplynulom období sme venovali pozornosť aj vývoju riadiaceho programu pohybu terčov vo zväzku urýchľovača, keďže vznikla potreba integrácie prostredia ROOT do riadiaceho programu. To nám umožnilo využiť infraštruktúru prostredia ROOT, hlavne jeho grafický subsystém a zabezpečilo kompatibilitu vstupných a výstupných dátových štruktúr s ostatnými programami používanými v laboratóriu.

Pre potreby vzdialeného ovládania a monitorovania bol vyvinutý zjednodušený klientský program komunikujúci so serverom cez ethernet. Tento program je určený pre užívateľov počas rutínnej prevádzky v priebehu experimentov na stanici vnútorných terčov a zabezpečuje potrebnú izoláciu OS stanice terčov od systému na stanovišti operátora.

Zabezpečili sme ďalšie vysokonapäťové moduly pre napájanie scintilačných detektorov v detektore SCAN-3 a hardvér pre vybudovanie optického ethernetového spojenia medzi stanicou vnútorných terčov a miestnosťou operátora na odstránenie porúch vznikajúcich v spojení počas práce urýchľovača. Dosiahnuté výsledky boli prezentované na medzinárodnej konferencii RNP 2019, Stará Lesná.

**9.) Grant vládneho splnomocnenca — SÚJV (JINR)**

**Zodpovedný riešiteľ:** Miroslav Nagy  
**Trvanie projektu:** 1.1.2019 / 31.12.2023  
**Evidenčné číslo projektu:** 01-3-1135-2019/2023

**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 1 - Rusko: 1  
**Čerpané financie:** SÚJV: 3575 €

Dosiahnuté výsledky:

**Programy: COST**

**10.) Multifunkcionálne nanokarbónové kompozitné materiály** (*Multi-Functional Nano-Carbon Composite Materials Network*)

**Zodpovedný riešiteľ:** Peter Šiffalovič  
**Trvanie projektu:** 1.9.2016 / 31.8.2020  
**Evidenčné číslo projektu:** CA15107  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Karlsruhe Institute of Technology Institute of Nanotechnology  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** -  
Podpora medzinárodnej spolupráce z národných zdrojov: 3797 €

Dosiahnuté výsledky:

Inklúzia uhlíkových nanorúriek (carbon nanotubes, CNTs) do polymérnej matrice má vplyv na ich mechanické a elektrické vlastnosti. Orientované CNTs v polymérnej matici môžu mať výrazný vplyv na jej anizotropné mechanické vlastnosti. Avšak inklúzia orientovaných CNTs nie je jednoduchá. V roku 2019 sme vypracovali pomerne jednoduchú techniku výroby polyamidových nanokompozitov, ktoré obsahujú jednu orientovanú vrstvu CNTs. Langmuirov film orientovaných CNTs bol transferovaný do polyamidovej matrice pomocou sprejovania priamo na CNTs na vodnej hladine. Výsledky potvrdzujú očakávanú anizotropiu mechanických vlastností. Anizotropia pevnosti v ťahu dosahuje rozdiel až 12x medzi smerom orientácie CNTs a smerom kolmým na neho. Dosiahnuté výsledky potvrdzujú efektívnosť nami navrhovanej metódy inklúzie CNTs do polymérnych matric s výrazne vylepšeniami mechanickými vlastnosťami.

**11.) Kvantové technológie vo vesmíre** (*Quantum Technologies in Space*)

**Zodpovedný riešiteľ:** Mário Ziman  
**Trvanie projektu:** 1.10.2016 / 1.10.2020  
**Evidenčné číslo projektu:** CA 15220  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** -  
Podpora medzinárodnej spolupráce z národných zdrojov: 3797 €

Dosiahnuté výsledky:



Pripravili sme projekt vo výzve Templeton foundations, ktorý bol odsúhlasený na financovanie.

## **Programy: CERN/MŠ**

### **12.) CERN - ISOLDE (CERN - ISOLDE)**

**Zodpovedný riešiteľ:** Martin Veselský  
**Trvanie projektu:** 1.1.2009 / 31.12.2020  
**Evidenčné číslo projektu:** CERN - ISOLDE  
**Organizácia je** áno  
**koordinátorom projektu:**  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 2 - Švajčiarsko: 1, Slovensko: 1  
**Čerpané financie:** -

#### Dosiahnuté výsledky:

## **Programy: Multilaterálne - iné**

### **13.) Bezolovnaté perovskitové solárne články s dlhodobou stabilitou (Pb-free Perovskite solar cells with Long-term stability)**

**Zodpovedný riešiteľ:** Mária Omastová  
**Zodpovedný riešiteľ v organizácii SAV:** Eva Majková  
**Trvanie projektu:** 1.11.2017 / 31.10.2020  
**Evidenčné číslo projektu:** V4-Kórea Joint Reseach Program on Chemistry and Chemical Engineering  
**Organizácia je** nie  
**koordinátorom projektu:**  
**Koordinátor:** Soo Young Kim, Chung Ang University, Seoul  
**Počet spoluriešiteľských inštitúcií:** 11 - Česko: 3, Maďarsko: 4, Kórejská republika: 2, Poľsko: 2  
**Čerpané financie:** -  
Podpora medzinárodnej spolupráce z národných zdrojov: 12500 €

#### Dosiahnuté výsledky:

V rámci projektu sme sa zamerali na výskum inovatívnej nábojovej transportnej vrstvy pre elektrony na báze SnO<sub>2</sub> nanočastíc ako náhradu TiO<sub>2</sub> vrstiev, ktorých príprava vyžaduje vyššie teploty. Pripravili sme priame perovskitové solárne články s SnO<sub>2</sub> vrstvou s účinnosťou 15%. Jeden z cieľov projektu je náhrada nábojovej transportnej vrstvy pre diery spiro-OMeTAD. Poľskí partneri vyvíjajú v rámci projektu material bTAThDaz, ktorý má potenciál byť vhodnou nábojovou transportnou vrstvou. V rámci projektu sme preskúmali elektrónovú štruktúru v okolí zakázaného pásma metódou ER EIS, a ukázali sme, že z pohľadu detailov elektrónovej štruktúry vyvíjaný material má potenciál nahradiť spiro.

V štruktúre invertovaného PSCs sme preskúmali vlastnosti zmesi PCBM a bTAThDaz ako nábojovej transportnej vrstvy pre elektrony. Výsledky sú sumarizované v spoločnej publikácii riešiteľov projektu zaslanej do tlače, publikácii v Solar Energy a pozvanej prednáške na WCAM 2019.

### **14.) Rozvoj učenia založeného na bádání pomocou IYPT (Development of Inquiry Based**

**Zodpovedný riešiteľ:** Martin Plesch  
**Trvanie projektu:** 1.11.2019 / 30.6.2022  
**Evidenčné číslo projektu:** 2019-1-SK01-KA201-060798  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 7 - Rakúsko: 2, Bulharsko: 1, Česko: 1, Maďarsko: 1, Slovensko: 1, Slovinsko: 1  
**Čerpané financie:** Erasmus +: 1349 €  
Podpora medzinárodnej spolupráce z národných zdrojov: 633 €

Dosiahnuté výsledky:

Vzhľadom na to, že projekt začal len 1.11.2019, bolo uskutočnené prvé stretnutie partnerov a začala sa práca na prvom výstupe.

**Programy: ERANET**

**15.) Vysokorozmerná kvantová fotonická platforma** (*High dimensional quantum Photonic Platform*)

**Zodpovedný riešiteľ:** Mário Ziman  
**Trvanie projektu:** 1.4.2018 / 30.3.2021  
**Evidenčné číslo projektu:**  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Centre National de la Recherche Scientifique  
**Počet spoluriešiteľských inštitúcií:** 4 - Rakúsko: 1, Francúzsko: 1, Veľká Británia: 1, Taliansko: 1  
**Čerpané financie:** -  
Podpora medzinárodnej spolupráce z národných zdrojov: 25000 €

Dosiahnuté výsledky:

Navrhli sme optimálny protokol pre kvantové učenie a v rámci konzorcia sme analyzovali možnosti jeho experimentálnej implementácie. Dôsledkom je analýza neuniverzálnych optimálnych protokolov.

**Programy: Horizont 2020**

**16.) Výrobky z rias získané pomocou nových magnetických kultivačných a extrakčných techník** (*Valuable Products from Algae Using New Magnetic Cultivation and Extraction Techniques*)

**Zodpovedný riešiteľ:** Peter Švec  
**Trvanie projektu:** 1.4.2017 / 31.3.2020  
**Evidenčné číslo projektu:** 745695  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** National Technical University of Athens  
**Počet spoluriešiteľských inštitúcií:** 12 - Rakúsko: 3, Belgicko: 1, Cyprus: 1, Španielsko: 1, Francúzsko: 1, Veľká Británia: 2, Grécko: 1, Taliansko: 2

**Čerpané financie:**

H2020: 69728 €

Podpora medzinárodnej spolupráce z národných zdrojov: 5316 €

Dosiahnuté výsledky:

Na širokom súbore nanočastíc Fe<sub>3</sub>O<sub>4</sub> pripravených partnermi pri rôznych podmienkach pomocou pyrolýzy v prúde plazmy s pokrytím rôznymi typmi zeolitov sme sledovali vývoj štruktúry a povrchu, mieru pokrytia, rozmery nanočastíc a vhodnosť takto upravených materiálov pre magnetický záchyt na kultivačných plochách a adsorbciu riasami. Na základe výsledkov bolo možné čiastočne optimalizovať procesy záchytu, uvoľnenia a recyklácie častíc po extrakcii biomasy. Výsledky boli priebežne využité partnermi v projekte. V rámci riešenia projektu sme spoločne s hlavným partnerom spoluorganizovali malú konferenciu IC-MAST (Bratislava, 2. – 4. 9. 2019), kde sme v dedikovanej sekcii a diskusii pri okrúhlom stole prezentovali spoločné výsledky.

**Programy: JRP**

**17.) 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

**Zodpovedný riešiteľ v organizácii SAV:**

Peter Švec

**Trvanie projektu:**

1.9.2018 / 31.8.2021

**Evidenčné číslo projektu:****Organizácia je**

nie

**koordinátorom projektu:****Koordinátor:**

Ústav experimentálnej fyziky SAV

**Počet spoluriešiteľských inštitúcií:**

1 - Turecko: 1

**Čerpané financie:**

-

Podpora medzinárodnej spolupráce z národných zdrojov: 12500 €

Dosiahnuté výsledky:

S ohľadom na potreby zníženia magnetickej koercivity v materiáloch na báze Fe-Co-Mo sme preskúmali rýchlochladený systém Fe-Co-Mo-Cu-B s dôrazom na koreláciu povrchu a magnetických vlastností aj pomocou AFM a MFM v amorfnom (J. Non-Cryst.Solids) a nanokryštalickom stave (J. Non-Cryst.Solids, zaslané). Spravili sme počiatočné experimenty na optimalizáciu citlivosti a šumových vlastností magnetických senzorov typu fluxgate s oválnym jadrom s ohľadom na vrstvenie jadra a na budiaci a snímací systém (2x AIP Conf. Proc.). Na systémoch bohatých na Co sme ukázali možnosti riadeného spracovania pomocou žiarenia v magnetickom poli na cielene nastavenie a optimalizáciu magnetických a snímacích charakteristík (2x prednáška, konf. PAMIR), kde sme ukázali na výhody využitia rôznej hrúbky rýchlochladených vrstiev jadra snímača na princípe GMI.

**Domáce projekty****Programy: VEGA**

**1.) Teoretický výskum hyperónov a ťažkých exotických mezónov** (*Theoretical investigation of hyperons and heavy exotic mesons*)

**Zodpovedný riešiteľ:**

Erik Bartoš

**Trvanie projektu:** 1.1.2017 / 31.12.2020  
**Evidenčné číslo projektu:** 2/0153/17  
**Organizácia je** áno  
**koordinátorom projektu:**  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských** 1 - Slovensko: 1  
**inštitúcií:**  
**Čerpané financie:** VEGA SAV: 8481 €

Dosiahnuté výsledky:

Bol vyhodnotený najnižší hadrónový príspevok k magnetickej anomálii miónu. Novonavrhnutý experiment v CERN, uskutoční v blízkej budúcnosti zmeranie príspevku z údajov v priestoru-podobnej oblasti na rozptylovom procese. Náš vklad spočíva v predpovedaní správania kvarkového príspevku bežiacej alfa konštanty v priestoru-podobnej oblasti, ktorý možno extrahovať z účinných prierezov  $e+e- \rightarrow$  hadróny v času-podobnej oblasti. Na základe tejto predpovede sme následne vyhodnotili samotný príspevok k magnetickej anomálii miónu: s hodnotou vyššou než u iných autorov.

Tiež bol rozvinutý modelom na popis rozpadu ťažkého tetrakvarku  $Y(4260)$ , kde sme uvažovali viacero rozpadových kanálov. Modelom sme vyhodnotili dva scénare: popis  $Y$  tetrakvarku ako molekuly a tiež ako "pravého" tetrakvarku. Porovnanie výsledkov a nameraných údajov naznačuje, že  $Y$  by sa mohol správať ako molekula dvoch di-kvarkov.

Výsledky boli publikované v 1 CC článku a 3 príspevkoch v zborníkoch z konferencií.

**2.) Vývoj senzorov a metód pre prechodové metódy merania termofyzikálnych vlastností látok a ich aplikácia pre možnosti sezónneho uskladnenia tepelnej energie.** (*Development of sensors and measurement methods for transient techniques for the measurement of thermophysical properties of materials and their application for seasonal storage of heat energy*)

**Zodpovedný riešiteľ:** Vlastimil Boháč  
**Zodpovedný riešiteľ v** Vlastimil Boháč  
**organizácii SAV:**  
**Trvanie projektu:** 1.1.2017 / 31.12.2019  
**Evidenčné číslo projektu:** 2/0192/17  
**Organizácia je** áno  
**koordinátorom projektu:**  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských** 0  
**inštitúcií:**  
**Čerpané financie:** VEGA SAV: 4838 €

Dosiahnuté výsledky:

Bol odvodený nový model pre prechodovú impulznú metódu pre geometriu vzorky vo forme vrstvy (dosky), ktorá zahŕňa rušivé účinky tepelnej kapacity tepelného zdroja a koeficientu prestupu tepla medzi tepelným zdrojom a vzorkou, ktorý predstavuje efekt kontaktného tepelného odporu. Ďalšími voľnými parametrami v modeli sú koeficienty teplotnej a tepelnej vodivosti. Oba efekty ovplyvňujú prestup tepla do vzorky a deformujú teplotnú odozvu. Efekt spôsobuje oneskorenie nárastu teploty v inflexnom bode nábehu teplotnej odozvy asi o 2 sekundy.

V ďalšej práci sme model analyzovali pomocou teórie koeficientov citlivosti a následne výpočtom neistôt odhadu všetkých štyroch voľných parametrov v tomto modeli. Veľmi vysoká neistota stanovenia hodnôt tepelnej kapacity zdroja tepla a koeficientu prenosu tepla spôsobuje, že parametre nie je možné jednoznačne stanoviť. Pre tento prípad, bola vyvinutá nová metodika

postupu stanovenia voľných parametrov modelu.

Overená metodika stanovenia termofyzikálnych parametrov bola použitá na meranie dvadsiatich vzoriek prírodného kameňa a vzoriek malty s vláknami polyméru. Uskutočnilo sa viac ako 700 meraní, ktoré budú uverejnené v pripravovaných článkoch.

Nová metodika stanovenia termofyzikálnych parametrov bola uverejnená v dvoch publikáciách a ďalší článok bol už zaslaný na zverejnenie. Ďalšie články týkajúce sa uvedených výsledkov meraní vlastností kameňov, overenia doskového modelu na PMMA vzorke a analýzy vplyvu rušivých parametrov modelu ako aj vplyvu rovinnosti vzoriek sú pred dokončením.

### 3.) Jadrová astrofyzika pri nízkych energiách (*Low energy nuclear astrophysics*)

**Zodpovedný riešiteľ:** Štefan Gmuca  
**Trvanie projektu:** 1.1.2016 / 31.12.2019  
**Evidenčné číslo projektu:** VEGA 2/0176/16  
**Organizácia je** áno  
**koordinátorom projektu:**  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** VEGA SAV: 5637 €

#### Dosiahnuté výsledky:

Študovali sa excitačné funkcie fúzných xn-vyparovacích kanálov pri reakciách vedúcich k izotopom Hg a Rn pomocou dobre známej metódy catcherovej fólie. Zväzky iónov  $^{36}\text{Ar}$ ,  $^{40}\text{Ar}$ ,  $^{48}\text{Ca}$  sa použili na produkciu izotopov Hg a Rn v reakciách syntézy  $^{144}\text{Sm}$  ( $^{40}\text{Ar}$ , xn)  $^{184}\text{-xHg}$ ,  $^{148}\text{Sm}$  ( $^{36}\text{Ar}$ , xn)  $^{184}\text{-xHg}$ ,  $^{166}\text{Er}$  ( $^{40}\text{Ar}$ , xn)  $^{206}\text{-xRn}$  a  $^{142}\text{Nd}$  ( $^{48}\text{Ca}$ , xn)  $^{190}\text{-xHg}$ . Je detailne opísaná vylepšená verzia metódy zachytávacej fólie použitej v tomto experimente. Opísané je tiež spracovanie údajov potrebné pre túto metódu vrátane metódy dekonvolúcie použitej na odstránenie následkov spôsobených znížením energie zväzku pomocou absorbných fólií. Analyzoval sa aj vplyv deformácie cieľových jadier a projektilov na konečný účinný prierez xn-vyparovacích kanálov.

### 4.) Vzťahy medzi elektrónovou štruktúrou a mikroštruktúrou tenkých kopolymérnych vrstiev (*Relations between electronic structure and microstructure of copolymer thin films*)

**Zodpovedný riešiteľ:** Katarína Gmucová  
**Trvanie projektu:** 1.1.2017 / 31.12.2020  
**Evidenčné číslo projektu:** 2/0163/17  
**Organizácia je** áno  
**koordinátorom projektu:**  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** VEGA SAV: 3827 €

#### Dosiahnuté výsledky:

Novosyntetizované [1]benzotieno[3,2-b]benzotiofén deriváty (ko-oligoméry) s alkyltiofénovým jadrom určené na použitie v OFET tranzistoroch boli charakterizované elektrochemickou impedančnou spektroskopiou s energetickým rozlíšením (ER-EIS). Tenké vrstvy študovaných ko-oligomérov boli nanosené tepelným odparením vo vysokom vákuu a boli určené HOMO a

LUMO orbitály.

Do štúdie PFO a PFO-DBT sme zaradili ďalší kopolymér F8BT. Všetky materiály boli analyzované elektrochemicky a röntgenovskými metódami. Začali sme spolupracovať so skupinou teoretikov a experimentálne DOS dáta sa porovnávali s teoretickými.

Rozdiely medzi hodnotami teoretických pásov (stanovené pomocou DFT), transportných pásov (stanovené pomocou UPS / IPES), elektrochemických pásov (stanovené pomocou ER-EIS, CV) a optických pásov (stanovené pomocou UV-Vis) boli diskutované v konferenčnom príspevku.

Publikácie: 1 x CC časopis

### **5.) Kombinácia nanočastíc a esenciálnych olejov na zmiernenie biologického poškodenia rôznych typov stavebných materiálov** (*Combination of nanoparticles and essential oils for mitigating the biodeterioration on various types of building materials*)

**Zodpovedný riešiteľ:** Monika Hofbauerová  
**Trvanie projektu:** 1.1.2019 / 31.12.2021  
**Evidenčné číslo projektu:** 2/0059/19  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** VEGA SAV: 7709 €

#### Dosiahnuté výsledky:

V súlade s harmonogramom projektu sme za prvý rok riešenia projektu skúmali antimikrobiálny efekt rôznych esenciálnych olejov (EOs) a superhydrofóbnych nanočastíc (SHNPs) pomocou disk-difúzných testov citlivosti na mikroorganizmy. Na základe výsledkov testu sme vybrali tri druhy EOs schopných inhibovať rast určitých mikroorganizmov, akými sú mikrovláknité huby *Aspergillus fumigatus* a *Exophiala xenobiotica* izolované zo stavebného materiálu. Ďalším krokom testovania antimikrobiálnej aktivity vybraných EOs a SHNPs bola ich aplikácia v rôznych koncentráciách na vybraný stavebný materiál (smrekové drevo a pieskovec). Sledovala sa schopnosť rastu mikrovláknitých húb na povrchu ošetrovaného materiálu a ich penetrácia do štruktúry materiálu v in vitro podmienkach. Pri týchto podmienkach sme zaznamenali značný antimikrobiálny efekt na povrchu ošetrovaného materiálu už pri nízkych koncentráciách EOs a SHNPs. Publikované výsledky: 1 článok CC, 1 zborník z konferencie.

### **6.) Pokročilé monochromátory s pridanou funkcionalitou úpravy zväzku pre röntgenovú metrológiu a röntgenové zobrazovanie** (*Advanced monochromators with added functionality of the beam conditioning for X-ray metrology and X-ray imaging*)

**Zodpovedný riešiteľ:** Matej Jergel  
**Trvanie projektu:** 1.1.2018 / 31.12.2020  
**Evidenčné číslo projektu:** 2/0092/18  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** VEGA SAV: 13718 €

#### Dosiahnuté výsledky:

Pokračovali sme vo vývoji technológie nanoobrábania povrchov rtg kryštálovej optiky. Zamerali sme sa na doriešenie problému finalizácie povrchov s cieľom odstrániť neželanú periodickú mriežku ako dôsledok deterministického charakteru nanoobrábania, a to pomocou chemomechanického leštenia, iónových zväzkov a UV lasera. Najlepšie výsledky sme dosiahli posledne menovanou metódou, ktorá umožnila odstrániť povrchovú mriežku pri zachovaní všetkých benefítov nanoobrábania. Lokálna povrchová drsnosť bola na úrovni 1 nm a menej a vysokorozlišovacia elektrónová mikroskopia ukázala monokryštalickú štruktúru a absenciu dislokácií až po samotný povrch. V súvislosti s absenciou amorfnej fázy sme sa začali venovať hlbšiemu štúdiu procesov nanoobrábania, keďže vysoká kvalita povrchu sa dosahuje úberom materiálu v plastickom režime.

Pokračovali sme v cielenom návrhu kanálikových rtg monochromátorov na báze Ge optimalizovaných na zvolený výstupný parameter so započítaním reálnych parametrov rtg zväzku z mikrofokálnych rtg zdrojov s reflexnou Montelovou optikou. Zamerali sme sa na maximalizáciu fotónového toku na pixel detektora, čo je osobitne dôležité pre meranie slabo rozptyľujúcich nanoštruktúr. Týmto postupom sme napokon navrhli originálny V-kanálikový monochromátorov s asymetrickými difrakciami Ge220 optimalizovaný pre rtg zdroj Nanostar s Ga kvapalnou anódou, ktorý sa nachádza v klastri laboratórií Nanolab. Tento budeme realizovať novou technológiou nanoobrábania a následne testovať.

Výsledky boli publikované v 6 CC článkoch a 10 zborníkoch z konferencií.

#### **7.) Difúzny transport v priestorovo ohraňovaných štruktúrach** (*Diffusional transport in spatially confined structures*)

<b>Zodpovedný riešiteľ:</b>	Pavol Kalinay
<b>Trvanie projektu:</b>	1.1.2018 / 31.12.2020
<b>Evidenčné číslo projektu:</b>	2/0008/18
<b>Organizácia je koordinátorom projektu:</b>	áno
<b>Koordinátor:</b>	Fyzikálny ústav SAV
<b>Počet spoluriešiteľských inštitúcií:</b>	0
<b>Čerpané financie:</b>	VEGA SAV: 2088 €

##### Dosiahnuté výsledky:

Využili sme techniku mapovania advekčno-difúznej rovnice s nekonzervatívnou silou v nehomogénnom kvázi-1D kanáli na analýzu difúzie častice unášanej Poiseuille-ovým tokom v 3D trubici s premenným prierezom. Rozšírili sme formulu pre efektívnu difuzivitu Taylorovej disperzie o členy závisiace od pozdĺžnych zmien (derivácií) polomeru trubice. Záchyt častíc pozorovaný pri splnení špecifických podmienok by mohol vylepšiť flotačnú metódu separácie častíc. Výsledky boli publikované vo Phys. Rev. E.

#### **8.) Kritické vlastnosti neštandardných tenzorových sietí** (*Critical properties of non-standard tensor networks*)

<b>Zodpovedný riešiteľ:</b>	Roman Krčmár
<b>Trvanie projektu:</b>	1.1.2019 / 31.12.2021
<b>Evidenčné číslo projektu:</b>	2/0123/19
<b>Organizácia je koordinátorom projektu:</b>	áno
<b>Koordinátor:</b>	Fyzikálny ústav SAV
<b>Počet spoluriešiteľských</b>	0

**inštitúcií:**

**Čerpané financie:** VEGA SAV: 5219 €

Dosiahnuté výsledky:

V roku 2019 sme sa venovali implementácii kvantového Isingovho modelu na Sierpinského pyramíde. Štúdiu zovšeobecnených spinových systémov, ktorých stupne volnosti sú troj, štvor a päťrozmerné. Články o polohe fazových prechodov šesťstavového hodinového modelu a o škálovaní entropie previazania kvantového Isingovho modelu na hyperbolických mriežkach boli prijaté na publikovanie do karentovaného časopisu Acta Physica Polonica A.

**9.) Mikroštruktúra a sorpčné vlastnosti uhlíkových vlákien pripravených karbonizáciou celulóзовých prekurzorov** (*Microstructure and sorption properties of carbon fibers prepared by carbonization of cellulose precursors*)

**Zodpovedný riešiteľ:** Igor Maťko  
**Trvanie projektu:** 1.1.2017 / 31.12.2020  
**Evidenčné číslo projektu:** 2/0127/17  
**Organizácia je** áno  
**koordinátorom projektu:**  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských** 2 - Slovensko: 2  
**inštitúcií:**  
**Čerpané financie:** VEGA SAV: 2784 €

Dosiahnuté výsledky:

Pokračovala širšia štúdia využitia uhlíkových vlákien pripravených karbonizáciou delignifikovanej celulózy ako nosiče čiastočiek aktívnej substancie. Primárna štúdia sa zamerala na hydratovaný hydroxid železitý, boli tiež pripravené a charakterizované aj kompozity obsahujúce čiastočky hydroxidu, alebo oxidu iných kovov. Perspektíva využitia tohto typu materiálov je v oblasti procesov na baze absorpcie (filtrovanie).

V rámci širšej spolupráce boli tiež pripravené a charakterizované kompozity, kde sú takto pripravené uhlíkové vlákna využité ako nosiče aktívnych organických zlúčenín, konkrétne sa jednalo o enzým lakáza. Bola ukázaná možnosť využitia takto pripraveného materiálu ako senzitívny biosenzor na detekciu fenolických substrátov.

Ďalej boli z hľadiska sorpčných vlastností charakterizované súvisiace materiály s kontrolovanou jemnou poróznou štruktúrou (SBA15 a SG100).

Dosiahnuté výsledky boli publikované v dvoch CC publikáciách a jednom konf. príspevku (zborník TAS2019).

**10.) Modifikácia rozhraní pre zlepšenie parametrov perovskitových solárnych článkov** (*Interface modifications for parameters improvement of perovskite solar cells*)

**Zodpovedný riešiteľ:** Vojtech Nádaždy  
**Trvanie projektu:** 1.1.2018 / 31.12.2021  
**Evidenčné číslo projektu:** 2/0081/18  
**Organizácia je** áno  
**koordinátorom projektu:**  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských** 0  
**inštitúcií:**  
**Čerpané financie:** VEGA SAV: 12090 €



#### Dosiahnuté výsledky:

Optimalizovali sme prípravu vrstvy SnO<sub>2</sub> na sklený substrát s flórom dopovaného oxidu cínu (FTO) z roztoku nanočastíc SnO<sub>2</sub>. To nám umožnilo prípravu štandardných laboratórnych perovskytových článkov (PSC) v takzvanej priamej planárnej štruktúre (FTO/SnO<sub>2</sub>/MAPbI<sub>3</sub>/Spiro-OMeTAD/Ag) s reprodukovateľnou účinnosťou PCE = 16%. S invertovaným planárnym PSC, prípravu ktorého sme zvládli minulý rok máme k dispozícii oba typy štruktúry PSC na nasledujúce vyšetrovanie vplyvu modifikácie rozhraní 2-rozmernými nanomateriálmi pre zlepšenie ich funkcionality. Na zlepšenie stability PSC sme aplikovali enkapsuláciu PSC depozíciou tenkej vrstvy Al<sub>2</sub>O<sub>3</sub> rôznej hrúbky metódou depozície atomárnych vrstiev. Momentálne prebieha charakterizácia parametrov PSCs v závislosti od času a vyhodnocovanie nameraných dát. Taktiež sme sa venovali vyšetrovaniu fyzikálnych vlastností organických polymérov, ktoré majú potenciál využitia ako vrstvy transportu náboja do PSC.

Výsledky boli publikované v 3 CC časopise a 2 zborníkoch z konferencie.

#### **11.) Aplikácia matematickej fyziky v rôzne škálovateľných systémoch** (*Application of mathematical physics in various scalable systems*)

<b>Zodpovedný riešiteľ:</b>	Richard Pinčák
<b>Zodpovedný riešiteľ v organizácii SAV:</b>	Erik Bartoš
<b>Trvanie projektu:</b>	1.1.2019 / 31.12.2022
<b>Evidenčné číslo projektu:</b>	2/0009/19
<b>Organizácia je koordinátorom projektu:</b>	nie
<b>Koordinátor:</b>	Ústav experimentálnej fyziky SAV
<b>Počet spoluriešiteľských inštitúcií:</b>	0
<b>Čerpané financie:</b>	0

#### Dosiahnuté výsledky:

Nový prístup založený na použití Chern–Simons prúdu v genotype a nového matematického modelu skrytých stavov v genóme ako vstup pre support spinor machine na predpovedanie zakrivenia v slučke V3 z databázy genetických variácií. Replikačný cyklus HIV sa dá vizualizovať pomocou uzlov a linkov cez reťazovú sekvenciu v modifikovanej Khovanovskej homológii pre biológiu. Na predpovedanie genetickej variácie v časových radoch slučky V3 sme použili Holo-Hilbertovu spektrálnu analýzu nad tromi frekvenčnými moduláciami FM1, FM2, a FM3 Chern-Simons prúdu v časových radoch HIV virálneho genómu. Smer spinorového poľa s genetickou variabilitou v 30 vzorkách bol predpovedaný pomocou support spinor machine a konvolučnej neurónovej siete na základe zobrazovacej techniky generovanej z tenzorovej korelačnej siete.

Výsledky boli publikované v práci Annalen der Physik, 2 CC práce boli prijaté do tlače.

#### **12.) Výskum elektrických a optických vlastností nanoštrukturovaných polovodičových rozhraní**

<b>Zodpovedný riešiteľ:</b>	Emil Pinčík
<b>Trvanie projektu:</b>	1.7.2017 / 31.12.2019
<b>Evidenčné číslo projektu:</b>	1/0676/17
<b>Organizácia je koordinátorom projektu:</b>	nie

**Koordinátor:** Elektrotechnická fakulta ŽU  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** VEGA SAV: 1724 €

Dosiahnuté výsledky:

Tento končiaci projekt sa venoval najmä mikroštruktúrnym a optickým vlastnostiam poréznych nanokryštalických Si vrstiev. Výskum bol realizovaný v kooperácii s IAS EF Žilinskej Univerzity v Liptovskom Mikuláši. Mikroštruktúrne vlastnosti boli skúmané najmä pomocou elektrónovej mikroskopie a SPM. Experimentálne výsledky boli analyzované pomocou štatistických, Abbott-Firestone, Fourier a multifraktálnych metód. Boli hľadané korelácie medzi drsnosťou povrchov a fraktalitou skúmaných štruktúr. Bol skúmaný aj Ramanovský rozptyl na sformovaných štruktúrach.

Výsledky výskumu boli publikované v 1 zahraničnej a 2 domácich recenzovaných publikáciách, a formou 5 abstraktov zo zahr. konferencií.

### 13.) Výskum pasivovaných štruktúr štandardného porézneho kremíka a čierneho kremíka

**Zodpovedný riešiteľ:** Emil Pinčík  
**Trvanie projektu:** 1.1.2018 / 31.12.2020  
**Evidenčné číslo projektu:** 2/0149/18  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** VEGA SAV: 1866 €

Dosiahnuté výsledky:

Projekt skúmal najmä optické vlastnosti poréznych Si štruktúr pripravovaných na objemovom kryštalickom Si substráte ako aj amorfných jedno- a viac-vrstvových štruktúr deponovaných na definovaný sklenený substrát. Prebiehal výskum pasivácie defektných stavov v spomínaných štruktúrach pomocou kzanidizačných HCN a KCN roztokov. Najpodstatnejším aktuálnym výsledkom projektu je skutočnosť, že sa výraznejšie pokročilo pri spracovaní a analýze fotoluminiscenčných vlastností spomínaných štruktúr. Väčšina z nich obsahuje okrem dominantného fotoluminiscenčného signálu aj interferenčný superponovaný signál, ktorý často máva veľmi nízku až zanedbateľnú intenzitu. Analýzou interferenčného signálu (ak je jeho prítomnosť verifikovaná) sa dajú získať podstatné informácie o fyzikálnych vlastnostiach vrstiev na ktorých interferenčný jav vzniká a na ktorých súčasne sledujeme aj fotoluminiscenciu. Výskum predstavuje relatívne náročné matematicko-fyzikálne spracovanie získaných dát.

Výsledky výskumu boli publikované v 1 zahraničnej a 2 domácich recenzovaných publikáciách, a formou 5 abstraktov zo zahr. konferencií.

### 14.) Benchmark Kvantových počítačov prístupných cez Klaud (*Benchmarking Quantum computers on Cloud*)

**Zodpovedný riešiteľ:** Martin Plesch  
**Trvanie projektu:** 1.1.2019 / 31.12.2022  
**Evidenčné číslo projektu:** 2/0136/19  
**Organizácia je koordinátorom projektu:** áno

**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** VEGA SAV: 6263 €

Dosiahnuté výsledky:

V priebehu prvého roka projektu boli rozbehnuté viaceré aktivity, ktoré smerujú k publikačným výstupom. Jeden článok je akceptovaný, jeden zaslaný a dva v príprave.

**15.) Výskum skreslenia DLTS signálov. (*Study of deformed DLTS signal.*)**

**Zodpovedný riešiteľ:** Jaroslav Rusnák  
**Trvanie projektu:** 1.1.2017 / 31.12.2019  
**Evidenčné číslo projektu:** 2/0024/17  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** VEGA SAV: 1724 €

Dosiahnuté výsledky:

Použitie metodiky DLTS (Deep Level Transient Spectroscopy) bola primárne určená pre polovodiče. V tomto projekte bola použitá aj pre iné materiály, napríklad PMMA alebo materiály na báze dimethacrylát. Bola použitá dekompozícia prechodových javov s exponenciálnym priebehom. Spomenutý signál bol dekomponovaný na dve zložky a následne boli určené aktivačné energie defektných stavov. V princípe nie je obmedzený počet zložiek. Z dostupných zdrojov, pre termickú DLTS táto metóda ešte nebola publikovaná. Použitím dekompozície pri analýze termickej DLTS spektra môžeme považovať za kvalitatívne lepšie charakterizácie defektných stavov. Dosiahnuté výsledky boli opublikované v RSC Advances.

**16.) Kvantové spracovanie informácie štruktúrami vyššieho rádu (*Higher order quantum information processing*)**

**Zodpovedný riešiteľ:** Michal Sedlák  
**Trvanie projektu:** 1.1.2019 / 31.12.2021  
**Evidenčné číslo projektu:** 2/0161/19  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** VEGA SAV: 5219 €

Dosiahnuté výsledky:

Cieľom projektu HOQIP je konsolidácia matematického rámca pre kvantové štruktúry vyššieho rádu. V prvom roku projektu sme sa zamerali na pochopenie triedy protokolov, ktorá je na rozhraní medzi fixne kauzálnymi usporiadanými protokolmi a tými so superpozíciou rôznych kauzálnych poradí. Ide o protokoly, kde sa kauzálna poradie v neskorších krokoch určuje výsledkom merania v k-tom kroku. Sme presvedčení, že by sa takéto zobrazenia dali charakterizovať sadou lineárnych podmienok pre množinu pozitívnych semidefinítnych operátorov. Začali sme tieto typy protokolov skúmať na nasledovnej úlohe. K dispozícii sú tri black boxy – označme ich A,B,C. Vieme, že každý

z nich implementuje unitárnu transformáciu a buď A je zhodné s C ( $A=C$ ), alebo B je zhodné s C ( $B=C$ ). Úlohou je pri fixnom počte použití jednotlivých black boxov jednoznačne rozlíšiť tieto dve možnosti. Najprv sme túto úlohu začali riešiť pre jedno paralelné použitie black boxov A,B,C. Nateraz sa nám nepodarilo nájsť analytické riešenie, no z výsledkov získaných pomocou semidefinítneho programovania vyplýva, že optimálna stratégia nie je len zmesou dvoch stratégií, kde sa jeden black box nepoužije a testuje sa rozdielnosť zvyšných dvoch. Dá sa preto predpokladať, že i pri sekvenčných protokoloch bude záležať na poradí black boxov. Táto úloha má zároveň vzťah aj k programovateľnosti viacnásobných kvantových procesov, pretože výsledky merania určujúce kauzálne poradie v ďalších krokoch protokolu možno chápať aj ako sadu ortogonálnych stavov, ktoré programujú zvyšnú časť protokolu.

#### **17.) Základný stav a nízкотеплотné vlastnosti klasických coulombovských systémov** (*Ground state and low-temperature properties of classical Coulomb systems* )

<b>Zodpovedný riešiteľ:</b>	Ladislav Šamaj
<b>Trvanie projektu:</b>	1.1.2018 / 31.12.2020
<b>Evidenčné číslo projektu:</b>	2/0003/18
<b>Organizácia je koordinátorom projektu:</b>	áno
<b>Koordinátor:</b>	Fyzikálny ústav SAV
<b>Počet spoluriešiteľských inštitúcií:</b>	0
<b>Čerpané financie:</b>	VEGA SAV: 6480 € FÚ SAV: 1349 €

##### Dosiahnuté výsledky:

Pre systém ekvivalentných nábojov v blízkosti steny s periodicky modulovaným povrchovým nábojom bol odvodený vo vysokotepelnej Poisson-Boltzmannovej limite profil hustoty nábojov. Pre dvojrozmerné coulombovské systémy bola odvodená krátkodosahová symetria párových korelačných funkcií, v bulku ako aj v polonekonečnej geometrii. Výsledky boli publikované v 4 CC publikáciách.

#### **18.) Fyzikálne vlastnosti vody uväznenej v mezopóroch a kryoprotektíva** (*Physical properties of water confined in mesopores and cryoprotectants*)

<b>Zodpovedný riešiteľ:</b>	Ondrej Šauša
<b>Trvanie projektu:</b>	1.1.2017 / 31.12.2020
<b>Evidenčné číslo projektu:</b>	2/0157/17
<b>Organizácia je koordinátorom projektu:</b>	áno
<b>Koordinátor:</b>	Fyzikálny ústav SAV
<b>Počet spoluriešiteľských inštitúcií:</b>	0
<b>Čerpané financie:</b>	VEGA SAV: 4131 €

##### Dosiahnuté výsledky:

Analyzovali sa výsledky experimentov s meraním dôb života pozitronia a určili sa hodnoty lokálneho voľného objemu  $V_h$  u čistej vody, DMSO a kryoprotektívnych zmesí s nízkym podielom DMSO (1,8-10% objemových) v uväznenom stave v regulérnej matici SBA15 s cylindrickými mezopórmami priemeru 4nm pri teplotách 15-300K. Teplotné zmeny lokálneho voľného objemu sú indikátorom štrukturálnych zmien sledovanej uväznenej látky. Z meraní sa stanovili teploty, pri ktorých dochádza k voľnoobjemovým zmenám: okolie sklovitého prechodu

Tg (150-170K) a okolie 210K. Posledná teplota dobre korešponduje so zisteniami z literatúry ohľadne NMR experimentov s uväznenou vodou ako oblasť zmeny dynamiky molekúl.

Uskutočnili sa simulácie molekulovej dynamiky dvojzložkového systému DMSO a vody v širokom teplotnom rozmedzí medzi 100 – 300 K, pre objemové koncentrácie DMSO 2, 10 a 100 %. Simulácie ukázali, že DMSO pri nízkych teplotách silne klastruje, s prechodom do klastrov v oblasti okolo 160-170 K, čo pravdepodobne bráni tvorbe kryštálov ľadu alebo aspoň redukuje ich rozmery.

Pokračovalo sa v medzinárodnej spolupráci s viacerými pracoviskami na téme voľnoobjemových charakteristík matric s využitím ako nosičov lakázy pre biosenzory.

Publikácie v 5 CC časopisoch, 2 ne-CC, v 1 knižných príspevkoch a 3 zborníkoch z konferencií.

## **19.) Povrchy a 2D materiály** (*Surfaces and 2D materials*)

**Zodpovedný riešiteľ:** Ivan Štich  
**Trvanie projektu:** 1.1.2018 / 31.12.2020  
**Evidenčné číslo projektu:** 2/0123/18  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** VEGA SAV: 10047 €

### Dosiahnuté výsledky:

Venovali sme sa modelovaniu Ramanovských aktivít (nízko aj vysoko frekvenčných) v niekoľkokvrstvovom fosforéne pod vplyvom strainu. Ukázali sme, že strain je veľmi efektívny nástroj na ladenie elektrónových a vibračných vlastností 2D materiálov.

Výsledky boli publikované v 2 CC publikáciách.

## **20.) Nanoštruktúra a vlastnosti komplexných kovových materiálov** (*Atomically resolved structure and properties of complex metallic materials*)

**Zodpovedný riešiteľ:** Peter Švec  
**Trvanie projektu:** 1.1.2017 / 31.12.2020  
**Evidenčné číslo projektu:** VEGA 2/0082/17  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** VEGA SAV: 18721 €

### Dosiahnuté výsledky:

Na kovových sklách na báze Al s tranzitívnymi kovmi a kovmi vzácnych zemín (Al-Ni/Co-REM, REM = Gd, Tb, Yb) sme skúmali stabilizáciu amorfnej fázy, jej elektrónovú štruktúru a priebeh transformácie do kryštalického stavu. Tento je v uvedených vzorkách komplexnejší a vykazuje zvyčajne tri až päť stupňov. S výhodou sme na ich identifikáciu a kvantifikáciu využili diferenciálnu rastrovaciu kalorimetriu a meranie elektrického odporu. Výsledky ukázali, že sklotvornosť a stabilita skiel typu Al-(Ni+Co)-REM sú vyššie o viac ako 100 stupňov v porovnaní s Al-Ni-REM alebo Al-Co-REM (publikácia v J. Alloys and Compounds, a v Technical Physics, dva

konferenčné príspevky – RCCT2019, St. Petersburg, LAM-17, Lyon) v dôsledku zmien v elektrónovej štruktúre.

Analyzovali sme štruktúru, stechiometriu a mechanické vlastnosti tenkých vrstiev  $\text{Ti}_{1-x}\text{Ta}_x\text{B}_2$  ±Delta pripravených súbežným magnetronovým naprašovaním zo zdrojov  $\text{TiB}_2$  a  $\text{TaB}_2$  v širokom rozsahu koncentrácií Ti a Ta. Stechiometriu a detailnú atomárne rozlíšenú štruktúru sme analyzovali pomocou (S)TEM a elektrónovej difrakcie. Poukázali sme na význam pomeru bóru voči atómom jednotlivých kovov (Ti, Ta) na tvrdosť a modul pružnosti takýchto perspektívnych pokrytí (publikácia v Surface & Coatings Technology).

V rýchlchlazenom systéme Fe-Co-Sn/P-B sme ukázali na vplyv povrchovej kryštalizácie na magnetické vlastnosti, najmä koercivitu, tvar hysteréznej sľučky a permeabilitu týchto materiálov. Ukázali sme tiež, že malá substitúcia cínu fosforom vedie k vylepšeniu magnetickej „mäkosti“ v dôsledku zníženia tohto javu a následného zníženia povrchových mikronapätí (pozvaná prednáška, konferencia SURFINT-SREN VI). Poznatky získané systematickým štúdiom súvisu koercivity, povrchovej štruktúry, relaxačných žíhaní a štruktúrnych transformácií sme využili priebežne pri vývoji magnetickej ultramäkkých materiálov pre jadrá nízkošumových snímačov magnetických polí typu fluxgate (publikácie v J. Supercond. Nov. Magn. a AIP Conf. Proc.). Vyvinuté snímače sú schopné merať hodnoty polí nižšie ako 10 pT s citlivosťou cca 2 MV/T a šumom menším ako 1 pT/sqrt(Hz) pri 1 Hz. Systémy sú vhodné pre široké využitie o. i. v geológii, medicíne, skúmaní geomagnetických polí pomocou satelitov, atď.

## **21.) Experimentálne štúdium jadrových reakcií a jadrovej štruktúry s využitím zväzkov z tandemového urýchl'ovača** (*Experimental investigation of nuclear reactions and nuclear structure using the Tandetron beams*)

<b>Zodpovedný riešiteľ:</b>	Martin Venhart
<b>Zodpovedný riešiteľ v organizácii SAV:</b>	Martin Venhart
<b>Trvanie projektu:</b>	1.1.2017 / 31.12.2019
<b>Evidenčné číslo projektu:</b>	
<b>Organizácia je koordinátorom projektu:</b>	áno
<b>Koordinátor:</b>	Fyzikálny ústav SAV
<b>Počet spoluriešiteľských inštitúcií:</b>	0
<b>Čerpané financie:</b>	VEGA SAV: 18000 € FÚ SAV: 7308 €

### Dosiahnuté výsledky:

Boli študované izotopy  $^{41}\text{K}$ ,  $^{61}\text{Cu}$ , a  $^{58}\text{Ni}$  metodikou nepružného rozptylu protónov, alfa častíc a jadrových reakcií. Dáta sú veľmi vysokej štatistickej kvality vzhľadom na možnosť dlhodobých meraní, ktorých realizácia je možná v laboratóriách malých rozmerov. V roku 2019 bolo publikovaných 9 článkov, obhájená jedna dizertačná, jedna diplomová a jedna bakalárska práca.

## **22.) Pamäťové a kauzálne štruktúry a procesy pri kvantovom spracovaní informácie** (*Memory and causal structures and applications in quantum information processing*)

<b>Zodpovedný riešiteľ:</b>	Mário Ziman
<b>Trvanie projektu:</b>	1.1.2017 / 31.12.2019
<b>Evidenčné číslo projektu:</b>	2/0173/17
<b>Organizácia je koordinátorom projektu:</b>	áno

**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** VEGA SAV: 9600 €  
FÚ SAV: 3448 €

Dosiahnuté výsledky:

Dokončili sme výskum o vzťahu rozložiteľnosti kvantových časových evolúcií a kvantových procesov. Okrem toho sme študovali vplyv šumu na algoritmy databázového vyhľadávania pomocou kvantových kráčaní. Výsledky boli publikované v 4 článkoch.

**Programy: APVV**

**23.) 2D-materiály a ich funkcionalizácia (2D materials and their functionality)**

**Zodpovedný riešiteľ:** Ján Brndiar  
**Trvanie projektu:** 7.1.2016 / 30.6.2019  
**Evidenčné číslo projektu:** APVV-15-0759  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** APVV: 26005 €

Dosiahnuté výsledky:

Venovali sme sa elektrónovým a vibračným vlastnostiam v rovnováhe a pod vplyvom strainu. Kľúčovou vlastnosťou 2D materiálov sú ich zakázané pásy, ktoré sú obvykle priame. Ukazuje sa, že stanoviť ich presnú hodnotu nie je jednoduché, nakoľko experimenty (fotoluminiscencia, optická absorpcia, atď.) ako aj štandardné modelovacie metódy (DFT, GW, GW+BSE) vykazujú rozptyly cca. 1 eV, a tak tieto výsledky majú nízku hodnotu. Je zrejmé, že pre akúkoľvek aplikáciu je nutné najprv určiť šírku zakázaného pásu ideálneho 2D materiálu, t.j. napr. striktne jednovrstvového materiálu bez defektov. Na určenie šírky fundamentálneho zakázaného pásu (quasi-particle gap) sme použili many-body techniky kvantového Monte Carla a získali takto najpresnejšie odhady quasi-particle šírky zakázaného pásu v jednovrstvovom fosforéne. Výsledky boli publikované v 2 CC publikáciách.

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

**Zodpovedný riešiteľ:** Hana Čenčariková  
**Zodpovedný riešiteľ v organizácii SAV:** Andrej Gendiar  
**Trvanie projektu:** 1.7.2017 / 30.6.2021  
**Evidenčné číslo projektu:** APVV-16-0186  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Ústav experimentálnej fyziky SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** APVV: 12045 €

Dosiahnuté výsledky:

Analyzovali sme kvantové, semikvantové a klasické fázové prechody v spinovo-elektrónových systémoch. Študovali sme exotické mriežkové štruktúry na fraktálnych aj Euklidovských geometriách v prítomnosti magnetických a elektrických polí. Na výpočet boli použité zovšeobecnené numerické algoritmy tenzorových sietí, menovite, Higher-Order Tensor Renormalization Group, Tensor Product Variational Formulation a Corner Transfer Matrix Renormalization Group. Výsledky sú uverejnené v 3 CC publikáciách, ďalšie 3 CC publikácie sú v tlači (výjdu začiatkom roku 2020) a 2 rukopisy sú v recenznom konaní.

**25.) 2D materiály iné ako grafén: monovrstvy, heteroštruktúry a hybridné vrstvy (2D materials beyond graphene: monolayers, heterostructures and hybrids)**

<b>Zodpovedný riešiteľ:</b>	Martin Hulman
<b>Zodpovedný riešiteľ v organizácii SAV:</b>	Peter Šiffalovič
<b>Trvanie projektu:</b>	1.7.2016 / 31.12.2019
<b>Evidenčné číslo projektu:</b>	APVV-15-0693
<b>Organizácia je koordinátorom projektu:</b>	nie
<b>Koordinátor:</b>	Elektrotechnický ústav SAV
<b>Počet spoluriešiteľských inštitúcií:</b>	0
<b>Čerpané financie:</b>	APVV: 14674 €

Dosiahnuté výsledky:

V roku 2019 sme sa sústredili na koreláciu Ramanovej spektroskopie a RTG rozptylových techník (GIWAXS) pre charakterizáciu atomárne tenkých (few-layer, FL) MoS<sub>2</sub> vrstiev. Pomocou polarizovaných Ramanových meraní sme preštudovali možnosť určenia kryštalografickej orientácie unitárnej bunky, čo bolo následne overené pomocou GIWAXS meraní. Naša nová metóda charakterizácie FL-MoS<sub>2</sub> vrstiev umožňuje lokalizáciu kryštalografickej orientácie FL-MoS<sub>2</sub> zrn s presnosťou lepšou ako 1 mikrometer, čo nie je možné pomocou štandardnej GIWAXS metódy.  
CC publikácie: 5

**26.) Nanočasticové senzory pre plynné biomarkery chorôb (Nanoparticles-based sensors of gaseous biomarkers of diseases)**

<b>Zodpovedný riešiteľ:</b>	Ján Ivančo
<b>Trvanie projektu:</b>	1.7.2015 / 28.6.2019
<b>Evidenčné číslo projektu:</b>	APVV-14-0891
<b>Organizácia je koordinátorom projektu:</b>	áno
<b>Koordinátor:</b>	Fyzikálny ústav SAV
<b>Počet spoluriešiteľských inštitúcií:</b>	0
<b>Čerpané financie:</b>	APVV: 15286 €

Dosiahnuté výsledky:

Nanočasticové vrstvy WO<sub>3</sub> sa používajú aj v senzoroch stopových koncentrácií niektorých plynov a pár. Študovali sme prípravu a vlastnosti nanočastíc WO<sub>3</sub> s cieľom pripraviť nanočastice so



zvýšeným obsahom triklinickej kryštalografickej fázy (vyskytujúcej sa v teplotnom intervale -40 až +17 °C v objemovom WO<sub>3</sub>) a zvýšiť teplotu fázového prechodu z triklinickej na monoklinickú fázu pre WO<sub>3</sub> na báze nanočastíc. Dopovaním chrómom boli pripravené nanočastice WO<sub>3</sub>, ktoré si zachovali vyšší obsah triklinickej fázy aj po teplotnom spracovaní pri 250°C. Ťažiskovou metódou skúmania bola Ramanova spektroskopia; pre obe spomenuté kryštalografické fázy sme identifikovali príslušné komponenty dvojpicov v Ramanovom spektre potrebné pre stanovenie zmiešavacieho pomeru fáz.

V predchádzajúcom roku sme skúmali odozvu vodivosti podložiek Al<sub>2</sub>O<sub>3</sub> na stopové koncentrácie acetónových pár; toto chovanie je potenciálne využiteľné pre detektor acetónových pár pracujúci pri izbovej teplote. Pokračovali sme v riešení problematiky návrhom a prevedením experimentov pre verifikáciu predpokladaného mechanizmu odozvy založenom na zmene koncentrácie sodíkových iónov v povrchovej oblasti Al<sub>2</sub>O<sub>3</sub> resp. ich imobilizácie adsorbovanými molekulami acetónu. Výsledky boli publikované v časopisoch kategórie ADCA (2×), ADMB a ADNA.

**27.) Cielový dizajn hydrogélových mikrokapsúl pre imunitnú ochranu pankreatických ostrovčiekov v liečbe cukrovky** (*Rational design of hydrogel microcapsules for immunoprotection of transplanted pancreatic islets in diabetes treatment*)

<b>Zodpovedný riešiteľ:</b>	Igor Lacík
<b>Zodpovedný riešiteľ v organizácii SAV:</b>	Peter Šiffalovič
<b>Trvanie projektu:</b>	7.1.2019 / 30.6.2023
<b>Evidenčné číslo projektu:</b>	APVV-18-0480
<b>Organizácia je koordinátorom projektu:</b>	nie
<b>Koordinátor:</b>	Ústav polymérov SAV
<b>Počet spoluriešiteľských inštitúcií:</b>	0
<b>Čerpané financie:</b>	APVV: 3403 €

Dosiahnuté výsledky:

V roku 2019 sme sa zamerali na prepracovanie mapovania koncentrácie polymérnych materiálov naprieč polymérnymi kapsulami pomocou konfokálnej Ramanovej mikrospektroskopie. Tieto polymérne kapsule sú vhodné pre implantáciu a následnú liečbu cukrovky. V uvedenom období boli vypracované automatické programy na vyhodnotenie koncentračných profilov. V ďalšom sme navrhli stratégiu autonómneho vyhodnocovania a klasifikácie polymérnych kapsúl, ktorá je nevyhnutná pri charakterizácii veľkého počtu entít.

**28.) Výskum technológie nanoobrábania pre aktívne povrchy novej generácie RTG optiky** (*Research of the nanomachining technology for active surfaces of the new generation of the X-ray optics*)

<b>Zodpovedný riešiteľ:</b>	Eva Majková
<b>Trvanie projektu:</b>	1.7.2015 / 30.6.2019
<b>Evidenčné číslo projektu:</b>	APVV-14-0745
<b>Organizácia je koordinátorom projektu:</b>	áno
<b>Koordinátor:</b>	Fyzikálny ústav SAV
<b>Počet spoluriešiteľských inštitúcií:</b>	0
<b>Čerpané financie:</b>	APVV: 18750 €

#### Dosiahnuté výsledky:

V r. 2019 sme navrhli a testovali rtg kanálikové monochromátory (CCM), ktoré boli pripravené novo vyvíjanou technológiou nanoobrábania SPDT (single point diamond turning) a FC (fly cutting) v spolupráci s firmou Integra TDS, s.r.o. Piešťany (odberateľ výsledkov projektu). Išlo o V-kanálikové CCM (monokrystal Ge) založené na asymetrickej difrakcii s pridanou funkcionalitou expanzie resp. kompresie rtg zväzku pre aplikácie v rtg zobrazovaní a rtg metrológii. Pre cieľený návrh rtg zostáv sme použili v rámci projektu vyvinutú metódu systematického mapovania zvolenej veličiny v závislosti od uhlov asymetrie difrakcií jednotlivých CCM. Kombinácia reflexnej a kryštálovej rtg optiky sa vyznačuje vysoko efektívnym zberom fotónov zo zdroja pre novú generáciu laboratórnych mikrofokusných rtg zdrojov s podstatne vyšším tokom fotónov oproti tradičným rtg lampám aj doterajším mikrofokusným zdrojom. Záujem o testovanie už prejavili 2 zahraničné firmy.

Výsledky boli publikované v 2 CC publikáciách a v zborníku z medzinárodnej konferencie (non CC časopis).

#### **29.) Časovo-rozlíšené štúdium rastu hybridných van der Waalsových heteroštruktúr** (*Real-time grow studies of hybrid van der Waals heterostructures*)

<b>Zodpovedný riešiteľ:</b>	Nad'a Mrk'vková
<b>Trvanie projektu:</b>	1.7.2018 / 30.6.2022
<b>Evidenčné číslo projektu:</b>	APVV-17-0352
<b>Organizácia je</b>	áno
<b>koordinátorom projektu:</b>	
<b>Koordinátor:</b>	Fyzikálny ústav SAV
<b>Počet spoluriešiteľských inštitúcií:</b>	0
<b>Čerpané financie:</b>	APVV: 12998 €

#### Dosiahnuté výsledky:

V druhej fáze projektu sme sa venovali výrobe ultratenkých vrstiev MoS<sub>2</sub> (samotným aj pripravovaným na polykryštalyckom CVD diamante), ako aj možnosti ovplyvňovania orientácie ich atomárnych vrstiev. Doposiaľ bola ako kritický parameter vnímaná hlavne hrúbka Mo vrstvy, ktorá súži ako prekursor pri sulfurizácii. My sme zistili že podmienky sulfurizácie - konkrétne tlak síry a rýchlosť jej ohrevu - sú rozhodujúce pre výslednú orientáciu atomárnych vrstiev MoS<sub>2</sub>. Na charakterizáciu orientácie MoS<sub>2</sub> vrstiev sme vyvinuli novú metódu pomocou Ramanovej spektroskopie.

Okrem toho sme sa ďalej venovali deponovaniu malých molekúl na 2D substráty pomocou metódy OMBD (naparovanie organických molekúl). Následne sme analyzovali vlastnosti týchto molekúl ako napríklad ich orientáciu a morfológiu. Podrobne sme sledovali rast týchto molekúl v reálnom čase a in-situ na substrátoch MoS<sub>2</sub> s rôznou orientáciou atomárnych vrstiev. Zistili sme, že orientácia atomárnych vrstiev MoS<sub>2</sub> priamo ovplyvňuje orientáciu malých molekúl. Pre MoS<sub>2</sub> vrstvy s horizontálnou orientáciou atomárnych vrstiev (t.j. c-os smerujúca kolmo k povrchu vzorky) sa molekuly orientovali paralelne s povrchom vzorky, tzv. lying-down orientácia. Nopak pre MoS<sub>2</sub> vrstvy s vertikálnym usporiadaním atomárnych vrstiev (t.j. c-os pozdĺž rovinou vzorky) sa molekuly orientovali kolmo na povrch, tzv. standing-up orientácia. Možnosť ovplyvňovania orientácie organických molekúl na substrátoch je nesmierne dôležitá pre ich následné možné využitie v organickej elektronike.

Dosiahnuté výsledky boli aktívne prezentované na konferenciách a školách formou prednášok a

posterov, publikované v časopisoch (3CC, 2 v tlači).

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

**Zodpovedný riešiteľ:** Mária Omastová  
**Zodpovedný riešiteľ v organizácii SAV:** Peter Šiffalovič  
**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: 6737 €

#### Dosiahnuté výsledky:

Molekulárne zacielená liečba rakoviny je komplementárna ku konvenčnej, menej špecifickej chemoterapii. Transmembránový proteín CA IX is jedným z proteínov exprimovaných nádorovými bunkami a môže byť použitý na cielenú liečbu rakoviny. V roku 2019 sme demonštrovali biokonjugáciu grafén oxidovej (GO) nanoplatformy s biotinylovanou M75 protilátkou, ktorá má vysokú afinitu k CA IX. Ako modelový systém sme študovali interakciu biokonjugovanej GO-M75 a Madin-Darby Canine Kidney (MDCK) buniek. Pomocou FACS (fluorescence-activated cell sorting) sme pozorovali zvýšenú akumuláciu GO-M75 v MDCK bunkách exprimujúcich CA IX proteín. K lokalizácii biomodifikovanej GO nanoplatformy na bunkovej úrovni sme využili konfokálnu Ramanovu mikrospektroskopiu, ktorá umožňuje sledovanie buniek in vitro.

### **31.) Výskum fyzikálnych vlastností a kinetiky formovania vrstiev čierneho kremíka** (*Research of physical properties and growth kinetics of black silicon layers*)

**Zodpovedný riešiteľ:** Emil Pinčík  
**Trvanie projektu:** 1.7.2016 / 30.6.2019  
**Evidenčné číslo projektu:** APVV-15-0152  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 4 - Česko: 1, Nemecko: 1, Japonsko: 1, Holandsko: 1  
**Čerpané financie:** APVV: 14562 €

#### Dosiahnuté výsledky:

Najdôležitejším pôvodným výsledkom posledného roku riešenia projektu bolo kvalitatívne a kvantitatívne sledovanie kontaminácie poréznych Si štruktúr formovaných katalytickým chemickým leptaním pomocou DLTS a CV v kooperácii s FEI STU Bratislava a LF UK Bratislava. Väčšina vzoriek pre tento výskum bola pripravovaná v laboratóriách ISIR Osaka University v Japonsku. Medzi hlavné kontaminanty patria: Pt, Au, Zn, Fe a Ti. Boli určené hlavné elektrické parametre odpovedajúcich hlbokých hladín ktoré boli identifikované v odpovedajúcich MIS štruktúrach. Napriek tomu sa porézne kremíkové vrstvy úspešne využívajú pri formovaní relatívne vysoko-účinných pn Si slnečných článkov s konverznou účinnosťou nad 20%. Získané poznatky umožňujú ďalej optimalizovať prípravu poréznych vrstiev pre ich viaceré aplikácie v priemysle okrem ďalšieho navyšovania konverznej účinnosti slnečných článkov.

Počet publikácií 1 CC, 5 recenzovaných a viaceré sú zaslané a pripravované do Applied Surface Science.

**32.) Vlastnosti rozhrania grafén-diamant: štúdium na atomárnej úrovni** (*Properties of the graphene-diamond interface: study on the atomic level*)

**Zodpovedný riešiteľ:** Mária Sabadková  
**Zodpovedný riešiteľ v organizácii SAV:** Peter Šiffalovič  
**Trvanie projektu:** 1.7.2017 / 31.12.2020  
**Evidenčné číslo projektu:** APVV-16-0319  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Slovenská technická univerzita v Bratislave  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** APVV: 18924 €

Dosiahnuté výsledky:

RTG rozptyl pod malým uhlom dopadu (grazing=incidence wide=angle X=ray scattering, GIWAXS) je vhodná technika na sledovanie fázových transformácií tenkých filmov v CVD komore a iných reaktoroch v reálnom čase. V roku 2019 sme nadizajnovali in-situ GIWAXS zariadenie, ktoré umožňuje sledovať sulfurizáciu tenkých Mo vrstiev priamo v CVD komore. Vyvinutá metóda nie je limitovaná iba pre sulfurizáciu, ale môže byť aplikovaná aj pre iné fázové transformácie, ktoré prebiehajú pri vysokých teplotách a môžeme ju aplikovať aj na pozorovanie vzniku grafénových vrstiev na CVD diamante. V rámci testovania in-situ GIWAXS zariadenia sme podali projekty na alokovanie pracovných časov na synchrotronech v Hamburgu a Trieste.

**33.) Fyzikálne vlastnosti organických látok a vody uväznených v mezopóroch anorganických matric** (*Physical properties of organic compounds and water confined in mesopores of inorganic matrices*)

**Zodpovedný riešiteľ:** Ondrej Šauša  
**Trvanie projektu:** 1.7.2017 / 30.6.2021  
**Evidenčné číslo projektu:** APVV-16-0369  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** APVV: 36777 €

Dosiahnuté výsledky:

Boli analyzované ďalšie experimentálne dáta získané pomocou techník PALS, ESR, DSC a simulácií molekulovej dynamiky na modelových uväznených médiách v maticiacich s pórmi pravidelnej geometrie (SBA-15 a MCM41). Porovnávali sa doby života pozitronia a ich distribúcie u terc-butanolu a n-propanolu v uväznení. U väčších a kvázisférických molekúl t-butanolu vyššie stredne hodnoty dôb života pozitronia a širšia distribúcia dôb života naznačuje vyšší podiel nezaplneného priestoru v mezopóroch matrice. Boli dokončené analýzy uväznenej zmesi DMSO+voda s nízkym podielom DMSO v mezopóroch veľkosti 4nm v okolí kritickej koncentrácie DMSO (okolo 2% obj), pri ktorej dochádza k zmene kryoprotektívnych účinkov v objemových stavoch. Boli urobené ďalšie doplnujúce PALS experimenty v okolí teplôt 160-200K ako aj

simulácie molekulovej dynamiky v objemovom stave pre 2% DMSO ukazujúce klastrovanie molekúl pri vybraných nízkyh teplotách.  
Publikácie v 4 CC časopisoch, 1 zborníku z konferencie.

**34.) In situ monitorovanie rastu a riadená príprava monovrstiev perovskitov** (*In situ growth process and controllable preparation of perovskite monolayer films*)

**Zodpovedný riešiteľ:** Peter Šiffalovič  
**Trvanie projektu:** 1.10.2018 / 30.9.2021  
**Evidenčné číslo projektu:** SK-CN-RD-18-0006  
**Organizácia je** áno  
**koordinátorom projektu:**  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** APVV: 77689 €

Dosiahnuté výsledky:

Impulzné infračervené žihanie (flash infrared annealing, FIRA) predstavuje alternatívny prístup pri výrobe kryštalických tenkých vrstiev perovskitov. V roku 2019 sme aplikovali FIRA pre kryštalizáciu 2D a 3D MAPI (methylammonium lead iodide) perovskitových filmov. Pomocou in-situ GIWAXS (grazing-incidence wide-angle X-ray scattering) metódy sme sledovali kryštalizáciu priamo vo FIRA komore. V prípade 2D MAPI filmov s piperonylmethylamóniom (Pip) ako organickým separátorom, sme študovali ich rast na grafénovej podložke. Analýzou časového vývoja difrakcií 002, 111 a 108 sme detekovali zmeny unitárnej bunky počas FIRA procesu. Dôležitým bolo pozorovanie oneskorenej kinetiky c parametra unitárnej bunky voči parametrom a a b. Merania indikujú pomalšie konformačné zmeny Pip molekúl počas kryštalizácie v dôsledku slabých van der Wallsových síl v porovnaní s iónovými väzbami v rovine a-b perovskitových kryštálov. V oblasti kryštalizácie 3D MAPI perovskitových filmov sme sa zamerali na sledovanie vplyvu MACl aditíva počas FIRA procesu. Finálny GIWAXS rozptylový obrazec potvrdzuje vznik jednoosej textúry, pričom kryštalografický smer [111] je v smere normály k povrchu. Analýzou silných 110/002 difrakcií sme sledovali transformáciu prekuzorov do texturovaného MAPI filmu. Využitím ER-EIS (energy-resolved electrochemical impedance spectroscopy) sme potvrdili o jeden rád menej defektných stavov v zakázanom páse v porovnaní s vrstvami pripravenými konvenčnými metódami (antisolvent). Toto poukazuje na dôležitú rolu jednoosej textúry pre výrobu solárnych článkov so zvýšenou hustotou skratového prúdu.

**35.) Inovatívna MoS2 platforma pre diagnózu a cieleu liečbu rakoviny** (*Smart MoS2 platform for cancer diagnosis and targeted treatment*)

**Zodpovedný riešiteľ:** Peter Šiffalovič  
**Trvanie projektu:** 7.1.2016 / 30.6.2020  
**Evidenčné číslo projektu:** APVV-15-0641  
**Organizácia je** áno  
**koordinátorom projektu:**  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** APVV: 12799 €

Dosiahnuté výsledky:

Študovali sme využitie exfoliácie MoS2 nanoplatforiemv tekutej fáze bez použitia

povrchovo-aktívnych látok pre cieleňú liečbu rakoviny založenú na molekulárom rozpoznávaní. Biokonjugáciou MoS<sub>2</sub> s protilátkou M75 cez biotín-avidínový mostík sme zvýšili pravdepodobnosť endocytózy MoS<sub>2</sub> nanoplatforiem do rakovinových buniek, ktoré exprimujú na svojom povrchu proteín CA IX až o 30%. Takto biokonjugované MoS<sub>2</sub> nanoplatforiem obsahujú iba biokompatibilné komponenty s nízkou cytotoxicitou. Internalizáciu nanoplatforiem sme sledovali prietokovou cytometriou. Na sledovanie internalizácie na bunkovej úrovni sme využili bezznačkovú konfokálnu Ramanovu mikrospektroskopiu. Ramanove zobrazovanie potvrdilo zvýšenú lyzozomiálnu aktivitu v blízkosti internalizovaných MoS<sub>2</sub> nanoplatforiem.

**36.) AFM: Zobrazovanie, manipulácia, simulácia na atomárnej škále** (*AFM: Imaging, manipulation, atomic-scale simulation*)

**Zodpovedný riešiteľ:** Ivan Štich  
**Trvanie projektu:** 1.7.2019 / 30.6.2022  
**Evidenčné číslo projektu:** APVV-18-0211  
**Organizácia je** áno  
**koordinátorom projektu:**  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 1 - Slovensko: 1  
**Čerpané financie:** APVV: 23541 €

Dosiahnuté výsledky:

Venovali sme sa počítačovému modelovaniu systémov študovaných našimi experimentálnymi partnermi na Univerzite v Osake. Zapodievali sme sa najmä systémom atómov kyslíka na povrchu TiO<sub>2</sub>(110). Ukázali sme napr., ako metódy KPFS (Kelvin Probe Force Spectroscopy) môže manipulovať náboj (s jedoelektrónovou presnosťou), spin, a chemickú väzbu atómov kyslíka. Zapodievali sme sa tiež štruktúrou stepov na povrchu TiO<sub>2</sub>(110) a teoretickou limitou subatomárneho rozlíšenia AFM.

Výsledky boli publikované v 3 CC publikáciách.

**37.) Lignín ako kompozitný komponent do fenolformaldehydových živíc a drevoplastu** (*Lignin as Composite Component for Phenol - Formaldehyde Resins and Wood - Plastic Composite*)

**Zodpovedný riešiteľ:** Ivan Štich  
**Trvanie projektu:** 1.7.2016 / 30.6.2019  
**Evidenčné číslo projektu:** APVV-15-0201  
**Organizácia je** nie  
**koordinátorom projektu:**  
**Koordinátor:** Medzinárodné laserové centrum  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** APVV: 3519 €

Dosiahnuté výsledky:

Projekt bol ukončený v priebehu roka, jún 2019.

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

**Zodpovedný riešiteľ:** Peter Švec  
**Trvanie projektu:** 1.7.2016 / 31.12.2019  
**Evidenčné číslo projektu:** APVV-15-0621  
**Organizácia je** áno  
**koordinátorom projektu:**  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských** 0  
**inštitúcií:**  
**Čerpané financie:** APVV: 35999 €

Dosiahnuté výsledky:

Pomocou prvoprincípových výpočtov sme preskúmali porézne zlato a jeho použitie ako katalyzátor hydrogenačnej reakcie, kde z acetylénu vzniká etylén. Normálne je zlato pre oxidačné alebo hydrogenačné reakcie neaktívne. Zistili sme však, že v fcc mriežke nanoporézneho zlata spontánne vznikajú tzv. twining defekty, ktoré sa na povrchu prejavujú tak, že vzniknú reťazce nízko-koordinovaných atómov zlata, tzv. W-chains. Atómy Au s koordináciu CN=5 viažu molekulu H<sub>2</sub>, ktorá môže disociovať. Na W-reťazci atómov Au s koordináciu CN=6 sa viaže molekula acetylénu a reaguje s disociovanými H atómami, čím vzniká etylén, ktorý je k povrchu viazaný iba veľmi slabo a ľahko desorbuje (publikácia v Applied Catalysis A).

Využitím atomárne-rozlíšenej elektrónovej mikroskopie s chemickým mapovaním a ďalších elektrónomikroskopických metód v kombinácii s DFT sme spravili analýzu vývoja štruktúry a mechanických vlastností v ternárnych tenkých vrstvách typu Ti<sub>(1-x)</sub>Y<sub>x</sub>B<sub>(2+Δ)</sub> (publikácia v Scripta Materialia). Ukázali sme, že pôvodná nano-kolumnárna vlákniťa štruktúra sa spinodálnym rozpadom transformuje pri vysokých teplotách na nanokryštalickú, čo vedie k zníženiu tuhosti za súčasného zachovania tvrdosti, čím sa tento materiál stáva vhodným na použitie ako pevné a tvrdé ochranné pokrytia pre vysokoteplotné aplikácie.

Podobným prístupom sme preskúmali vplyv modifikácie rozhraní na úrovni nanometrov v systéme vrstvených termoelektrických kysličníkov Ga<sub>2</sub>O<sub>3</sub>(ZnO)<sub>9</sub> dopovaných In. Ukázali sme, že prítomnosť Ga a In na inverzných hraniciach nanozrŕn zvyšuje hustotu fonónových rozptylových centier, čím znižuje tepelnú vodivosť za súčasného nárastu koeficientu termoelektrického napätia. Vďaka takémuto nanoštruktúrovaní hraníc bolo možné dosiahnuť doteraz najvyššiu hodnotu koeficientu ZT pre termoelementy na báze Ga a In jednoduchým technologickým krokom (publikácia v J. of Electronic Materials).

Pokračovali sme v skúmaní anizotropie a atomárneho usporiadania v rýchlochladených páskach a tenkých vrstvách rôznej hrúbky systému HiTPERM na báze Fe-Co pomocou synchrotrónového žiarenia, rtg. difrakcie a MOKE. Ukázali sme, že v žíhaných tenkých vrstvách je platný model náhodnej anizotropie pre vývoj magnetickej koercivity za predpokladu zohľadnenia nízkej dimenzionality takýchto objektov (publikácia v J. Magn. Magn. Mater.). Na rýchlochladených páskach podobných zlození sme korelovali mieru a typ drsnosti povrchov s transformačnými procesmi a vývojom koercivity (J. Non-Cryst. Solids).

**39.) Rozvoj poznatkovej bázy v oblasti pokročilých kovových materiálov s využitím moderných teoretických , experimentálnych a technologických postupov** (*Advancement of knowledge in area of advanced metallic materials by use of up - to - date theoretical, experimental, and technological procedures*)

**Zodpovedný riešiteľ:** Peter Švec  
**Trvanie projektu:** 1.7.2016 / 30.6.2020  
**Evidenčné číslo projektu:** APVV-15-0049  
**Organizácia je** nie  
**koordinátorom projektu:**

**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** APVV: 18430 €

Dosiahnuté výsledky:

Metódou rýchleho ochladenia taveniny sme pripravili tenké pásky z kompozitov tvorených bezolovnatými spájkami typu Sn-Ag-Cu (SAC) a uhlíkových nanorúrok (CNT, obsah sa pohyboval v tisícinách až desatinách hm.%) predstavujúcich špecifický typ štruktúrne komplexných zliatin, tvorených kryštalickými, amorfnými, aj nanoštruktúrnymi objektami. Cieľom experimentov bolo overiť pozitívny účinok CNT na spevnenie spájok typu SAC a zistiť vplyv CNT na elektrické vlastnosti týchto spájok a nájsť optimálnu kombináciu mechanických aj elektrických vlastností, ktorá podmieňuje uplatnenie spájok v elektrotechnickom priemysle (článok v J. Phase Equilib. Diffus.).

Pripravili sme dva typy Heuslerových zliatin typu Fe<sub>2</sub>MnSi a Fe<sub>2</sub>MnAl. Pomocou vákuového tavenia v oblúkovej alebo indukčnej vákuovej peci a odlievaním taveniny do valcových ingotov sme získali objemové vzorky. Tenké pásky sme pripravili liatím na rotujúci valec. Cieľom výskumu bolo stanovenie vplyvu rôznej technológie prípravy vzoriek na hodnoty mriežkového parametra, chemického zloženia a magnetický stav Heuslerových zliatin (články v J. Magn. Magn. Mat. a Materials). Výpočty z prvých princípov boli použité na objasnenie elastických vlastností fáz (matrice a nestechiometrickej Heuslerovej zlúčeniny typu Fe<sub>2</sub>TiAl kuboidálnej morfológie) koexistujúcich v superzliatinách typu Fe-Al-Ti. Súčasťou výpočtov podporených experimentálnymi meraniami bola aj simulácia antifázových hraníc štruktúrne komplexnej, kuboidálnej fázy. Bol preukázaný vplyv antifázových hraníc na elastické a magnetické vlastnosti materskej fázy (publikácia v Crystals).

**40.) Vlastnosti nových progresívnych konštrukčných materiálov v agresívnom prostredí roztavených solí** (*The behaviour of new progressive construction materials in aggressive environment of molten salts*)

**Zodpovedný riešiteľ:** Peter Švec  
**Trvanie projektu:** 1.7.2016 / 30.6.2020  
**Evidenčné číslo projektu:** APVV-15-0738  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** APVV: 24941 €

Dosiahnuté výsledky:

Spoločne s hlavným riešiteľom projektu sme pripravili overovacie merania na stanovenie odolnosti voči korózii v roztavených soliach u rýchlochladených viacvrstvových materiálov na báze Ni-Si-B s obsahom submikrónových častíc karbidu volfrámu.

Výsledky štruktúrnych a kinetických analýz získaných na ternárnych fluoridových systémoch v priebehu ich nezvyčajnej fázovej transformácie sme prezentovali v troch konferenčných príspevkoch (MS11, Orleans, 19th Eur. Symp. on Fluorine Chemistry, Varšava, ChemZi, Horný Smokovec).

Preštudovali sme tiež sériu intermetalík na báze Pd použitých na katalýzu benzylamínu na dibenzylimín. Zistili sme koreláciu medzi reakčnou rýchlosťou (experiment) a výškou disociačnej bariéry kyslíka O<sub>2</sub> (DFT výpočet). Vďaka prítomnosti atomárneho kyslíka na povrchu katalyzátora



H2 skupina na konci benzylamínu zreaguje na vodu, čím sa umožní prepojenie koncov dvoch molekúl benzylamínu a vznikne dibenzylimín (publikácia v ACS Appl. Mater. Interfaces).

#### **41.) Tribologické vlastnosti 2D materiálov a príbuzných nanokompozitov** (*Tribological properties of 2D materials and related nanocomposites*)

**Zodpovedný riešiteľ:** Milan Ľapajna  
**Zodpovedný riešiteľ v organizácii SAV:** Peter Šiffalovič  
**Trvanie projektu:** 1.7.2018 / 30.6.2022  
**Evidenčné číslo projektu:** APVV-17-0560  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Centrum pre využitie pokročilých materiálov SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** APVV: 14799 €

##### Dosiahnuté výsledky:

Tribologické vlastnosti povrchov sú určené predovšetkým ich topografiou a chemickým zložením. Efekt kryštalografickej orientácie atomárne tenkých (few-layer, FL) MoS<sub>2</sub> ešte nebol experimentálne pozorovaný. Vhodným výberom teplotnej rampy pri sulfurizácii tenkých Mo filmov v CVD komore sme vyrobili tenké FL-MoS<sub>2</sub> filmy s rozličnou orientáciou ich c-osi a podobnou drsnosťou povrchu. Tým pádom, ich rozličné tribologické vlastnosti na mikro a makro škále budú dané predovšetkým ich elektrónovou štruktúrou na povrchu. Pre horizontálne orientované FL-MoS<sub>2</sub> filmy, ktoré majú c=os orientovanú kolmo k povrchu to znamená, že interakcia medzi povrchom bude mediovaná slabými van der Waalsovými silami. Dosiahnuté výsledky ukazujú možnosti optimalizácie tribologických vlastností tenkých filmov pomocou vhodnej kryštalografickej orientácie, čo je obzvlášť dôležité pre aplikácie v extrémnych podmienkach ako je vákuum a vysoké teploty, kde bežné lubrikanty nie je možné nasadiť.

#### **42.) Štruktúra jadrovej hmoty** (*Structure of the nuclear matter*)

**Zodpovedný riešiteľ:** Martin Venhart  
**Trvanie projektu:** 1.7.2016 / 30.6.2020  
**Evidenčné číslo projektu:** APVV-15-0225  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** APVV: 65812 €

##### Dosiahnuté výsledky:

Na tandemových urýchľovačoch v Trnave a v Piešťanoch boli študované izotopy <sup>41</sup>K a <sup>61</sup>Cu. Bolo publikovaných 10 CC prác v časopisoch Phys. Rev. C, Nucl. Phys. A, Eur. Phys. J. A a J. Phys. G: Part. and Nucl. Phys.

#### **43.) Kvantová teória grafov a sietí** (*Quantum theory on graphs and networks*)

**Zodpovedný riešiteľ:** Mário Ziman

**Trvanie projektu:** 1.7.2015 / 28.6.2019  
**Evidenčné číslo projektu:** APVV-14-0878  
**Organizácia je** áno  
**koordinátorom projektu:**  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských** 0  
**inštitúcií:**  
**Čerpané financie:** APVV: 19348 €

Dosiahnuté výsledky:

Hlavným výsledkom bola optimalizácia kvantového obvodu pre pravdepodobnostné heraldované kvantové učenie unitárnych kvantových procesov. Zvládnutím netriviálnych grupových štruktúr sa nám podarilo navrhnúť optimálny protokol pre  $N \times 1$  pravdepodobnostné ukladanie a vyvolanie unitárnych procesov na  $d$ -rozmerných kvantových systémoch. Výsledná optimálna pravdepodobnosť úspechu bezchybného vyvolania pôvodného unitárneho procesu na jednom ľubovoľnom vstupe má jednoduchý tvar  $N/(N-1+d^2)$ . Okrem toho sme získali aj výsledky v oblasti aplikácií kvantových kráčaní pri vyhľadávaní na grafe, vyvinuli sme unikátne výpočtové algoritmy tenzorových sietí pre štúdium fázových prechodov, a analyzovali sme rozložiteľnosť kvantových dynamík kvantových bitov. Výsledky boli publikovné celkovo v 10 článkoch, z ktorých 7 je už publikovaných, resp. akceptovaných na publikáciu.

**44.) Optimalizačné metódy pre kvantové technológie** (*Optimisation methods for quantum technologies*)

**Zodpovedný riešiteľ:** Mário Ziman  
**Trvanie projektu:** 1.7.2019 / 30.6.2023  
**Evidenčné číslo projektu:** APVV-18-0518  
**Organizácia je** áno  
**koordinátorom projektu:**  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských** 0  
**inštitúcií:**  
**Čerpané financie:** APVV: 14396 €

Dosiahnuté výsledky:

**Programy: Iné projekty**

**45.) Výskum a vývoj vysoko efektívnych energetických zdrojov a technológií pre dopravné systémy s využitím princípov Industry 4.0**

**Zodpovedný riešiteľ:** Peter Švec  
**Trvanie projektu:** 1.12.2018 / 31.10.2021  
**Evidenčné číslo projektu:**  
**Organizácia je** nie  
**koordinátorom projektu:**  
**Koordinátor:** EVPÚ, a. s.  
**Počet spoluriešiteľských** 0  
**inštitúcií:**  
**Čerpané financie:** -

Dosiahnuté výsledky:

Pripravili sme sériu rýchlochladených materiálov na báze Fe-Co-Sn/P-B s rôznym obsahom bóru na stanovenie hraníc oblasti sklotvornosti, určili sme oblasti transformácie do nanokryštalického stavu. Stanovili sme ich základnú štruktúru a magnetické vlastnosti v nanokryštalickom stave (AIP Conf. Proc.), preskúmali sme detailne mieru presýtenia magneticky mäkkej nanokryštalickej fázy bcc-Fe(Sn) v závislosti od chemického zloženia a stupňa transformácie pomocou štruktúrnej analýzy (prednáška APCOM 2019, článok zaslaný do J. of Magnetism and Magn. Materials). Na túto tému sme viedli diplomovú prácu (obhájená v 06/2019) a prijali nového doktoranda. Úspešne sme korelovali hrúbku tenkovrstvových GMI senzorov magnetickeho poľa s ich citlivosťou (prednáška, konf. PAMIR), ukázali sme, že je možné vhodným ladením hrúbky vrstvy a meracej frekvencie s ohľadom na hĺbku vniku magnetického poľa až dvojnásobné zvýšenie citlivosti snímača. Pripravili sme dve obsiahle štúdie zamerané na analýzu úlohy nových polovodičových prvkov so širokým zakázaným pásom pre vysoko efektívne energetické zdroje s využitím princípov Industry 4.0. Analýzu chápania rôznych aspektov, koncepcií a poslania Industry 4.0 na Slovensku a v iných krajinách EÚ a vo svete sme prezentovali v elektronickom časopise Časopriestor/Spacetime 3/2019.

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- ADCA05      ALVAREZ-RUIZ, Diana T. - AZOUGH, Feridoon - HERNANDEZ-MALDONADO, David - KEPAPTSOGLU, Demie M. - RAMASSE, Quentin M. - ŠVEC, Peter Jr. - ŠVEC, Peter - FREER, Robert. Enhancement of Electrical Conduction and Phonon Scattering in Ga2O3(ZnO)9-In2O3(ZnO)9 Compounds by Modification of Interfaces at the Nanoscale. In Journal of Electronic Materials, 2019, vol. 48, no. 4, p. 1818-1826. (2018: 1.676 - IF, Q3 - JCR, 0.422 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 0361-5235.
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- ADNA01 JANOTOVÁ, Irena - ŠVEC, Peter - MAŤKO, Igor - ŠVEC, Peter Jr. - JANIČKOVIČ, Dušan - ZIGO, Juraj. Structure of rapidly quenched Fe-Co-Sn-B systems with varying Fe/Co ratio. In Journal of Electrical Engineering, 2015, vol. 66, no. 5, p. 297-300. (2014: 0.378 - IF, Q4 - JCR, 0.234 - SJR, Q3 - SJR). (2015 - INSPEC, SCOPUS, WOS). ISSN 1335-3632.  
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*1. [1.1] GRYBOS, Dominik - LESZCZYNSKI, Jacek S. - KWIECIEN, Marcin - SWIEBODA, Cezary - LASAK, Patryk - PLUTA, Wojciech - RYGAL, Roman - SOINSKI, Marian. Properties of Fe-based nanocrystalline magnetic powder cores (MPC) and structure of particle size distribution (PSD). In JOURNAL OF ELECTRICAL ENGINEERING-ELEKTROTECHNICKY CASOPIS. ISSN 1335-3632, 2018, vol. 69, no. 2, pp. 163-169., Registrované v: WOS*
- ADNA02 KUNDRÁT, V. - LOKAJÍČEK, M. - KRUPA, Dalibor. Physical meaning of the phase of high energy elastic scattering amplitude. In Czechoslovak journal of physics, 1989, vol. 39, no. 11, p. 1245-1255. ISSN 0011-4626.  
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*1. [1.1] PETROV, Vladimir A. Once more on Coulomb-nuclear interference. In EUROPEAN PHYSICAL JOURNAL C. ISSN 1434-6044, 2018, vol. 78, no. 3, 221., Registrované v: WOS*
- ADNA03 ŠVEC, Peter - SZEWCZYK, R. - SALACH, J. - JACKIEWICZ, D. - ŠVEC, Peter Jr. - BIENKOWSKI, A. - HOŠKO, Jozef. Magnetoelastic properties of selected amorphous systems tailored by thermomagnetic treatment. In Journal of Electrical Engineering, 2014, vol. 65, no. 4, p. 259-261. (2013: 0.420 - IF, 0.187 - SJR). (2014 - INSPEC, WOS, SCOPUS). ISSN 1335-3632.  
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*1. [1.1] FETISOV, L. Y. - CHASHIN, D. V. - BURDIN, D. A. - SAVELIEV, D. V. - EKONOMOV, N. A. - SRINIVASAN, G. - FETISOV, Y. K. Nonlinear converse magnetoelectric effects in a ferromagnetic-piezoelectric bilayer. In APPLIED PHYSICS LETTERS. ISSN 0003-6951, 2018, vol. 113, no. 21, 212903., Registrované v: WOS*

#### **AECA Vedecké práce v zahraničných recenzovaných zborníkoch a kratšie kapitoly/state v zahraničných vedeckých monografiách alebo VŠ učebniciach**

- AECA01 BIEDRZYCKI, R. - SZEWCZYK, R. - ŠVEC, Peter - WINIARSKI, W. Determination of Jiles-Atherton model parameters using differential evolution. In Mechatronics- Ideas for Industrial Application : Advances in Intelligent Systems and Computing. Vol. 317. - Springer International Publishing, 2015, p. 11-18. ISBN 978-3-319-10990-9.  
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*1. [1.1] ZHAO, Ran - WANG, Bowen. Modified J-A model and parameter identification based on data mining. In JOURNAL OF INTELLIGENT & FUZZY SYSTEMS. ISSN 1064-1246, 2018, vol. 35, no. 1, pp. 461-468., Registrované v: WOS*

#### **AFC Publikované príspevky na zahraničných vedeckých konferenciách**

- AFC01 FILIP, Peter. Heavy flavor mesons in strong magnetic fields. In 8th International Workshop on Critical Point and Onset of Deconfinement (CPOD 2013), March 11-15, 2013, California, USA : Proceedings of Science (CPOD 2013) 035. - Trieste : SISSA/ISAS, 2013, p. 1-10.

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1. [3.1] DUTTA, N. - MAZUMDER, S. *Majorana flipping of quarkonium spin states in transient magnetic field*. In *EUROPEAN PHYSICAL JOURNAL C*, ISSN 1434-6044, 2018, vol. 78, no. 6, 525.

- AFC02 HOLLWIESER, R. - FABER, M. - GREENSITE, J. - HELLER, U. - OLEJNÍK, Štefan. Correlation between center vortices and low-lying Dirac eigenmodes. In Proceedings of the 8th Conference Quark Confinement and the Hadron Spectrum, September 1-6, 2008, Mainz, Germany. Proc. of Science 036 (Confinement8). - Mainz, 2008.

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1. [1.1] NEJAD, Seyed Mohsen Hosseini. *Combining the color structures and intersection points of thick center vortices and low-lying Dirac modes*. In *PHYSICAL REVIEW D*. ISSN 2470-0010, 2018, vol. 97, no. 5, 054516.,

Registrované v: WOS

2. [1.1] NEJAD, Seyed Mohsen Hosseini. *Fractional topological charges and the lowest Dirac modes*. In *PHYSICAL REVIEW D*. ISSN 2470-0010, 2018, vol. 98, no. 9, 094513., Registrované v: WOS

3. [1.1] SPENGLER, Felix - QUANDT, Markus - REINHARDT, Hugo. *Branching of center vortices in SU(3) lattice gauge theory*. In *PHYSICAL REVIEW D*. ISSN 2470-0010, 2018, vol. 98, no. 9, 094508., Registrované v: WOS

- AFC03 MARKOŠ, Peter. Conductance Statistics near the Anderson Transition. In Anderson Localization and Its Ramifications. Proc. of B. Kramer 60th Birthday Conf., Hamburg, Sept. 4-6, 2002. - Berlin Heidelberg : Springer Verlag, 2003. P. 53-64. ISBN 3-540-40785-5.

Citácie:

1. [1.1] NORDENMARK, Mikael. *The Importance of Job and Family Satisfaction for Happiness among Women and Men in Different Gender Regimes*. In *SOCIETIES*. ISSN 2075-4698, 2018, vol. 8, no. 1, 1., Registrované v: WOS

- AFC04 QUATTROCCHI, L. - ACOSTA, L. - AMORINI, F. - ANZALONE, A. - AUDITORE, L. - BERCEANU, I. - CARDELLA, G. - CHBIHI, A. - DE FILIPPO, E. - AQUILA, D.D. - FRANCALANZA, L. - GNOFFO, B. - GRZESZCZUK, A. - LANZALONE, G. - LOMBARDO, I. - MARTEL, I. - MINNITI, T. - NORELLA, S. - PAGANO, A. - PAGANO, E.V. - PAPA, M. - PIRRONE, S. - POLITI, G. - PORTO, F. - RIZZO, F. - ROSATO, E. - RUSSOTTO, P. - TRIFIRO, A. - TRIMARCHI, M. - VERDE, G. - VESELSKÝ, Martin - VIGILANTE, M. Study of two- and multi-particle correlations in C-12+Mg-24 and C-12+Pb-208 reactions at E=35 AMeV. In EPJ Web of Conferences. - Les Ulis Cedex, France : EDP Sciences, vol. 117, 07020. ISSN 2100-014X.

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1. [1.1] CAMAIANI, A. - CASINI, G. - MORELLI, L. - BARLINI, S. - PIANTELLI, S. - BAIOTTO, G. - BINI, M. - BRUNO, M. - BUCCOLA, A. - CINAUSERO, M. - CICERCHIA, M. - D';AGOSTINO, M. - DEGELIER, M. - FABRIS, D. - FROSIN, C. - GRAMEGNA, F. - GULMINELLI, F. - MANTOVANI, G. - MARCHI, T. - OLMI, A. - OTTANELLI, P. - PASQUALI, G. - PASTORE, G. - VALDRE, S. - VERDE, G. *Experimental study of precisely selected evaporation chains in the decay of excited Mg-25*. In *PHYSICAL REVIEW C*. ISSN 2469-9985, 2018, vol. 97, no. 4, 044607., Registrované v: WOS

**AFD Publikované príspevky na domácich vedeckých konferenciách**

- AFD01 ILLEKOVÁ, Emília. A generalized-model of structural relaxation in metallic and chalcogenide glasses. In Amorphous Metallic Materials: AMM III : 3rd International

Conf on Amorphous Metallic Materials (AMM 3), Sept. 7-11, 1992, Topolčianky. - 1993, p. 541-548.

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*1. [1.1] KOZMIDIS-PETROVIC, Ana - SESTAK, Jaroslav. Glass transition temperature its exploitation and new conception of fragility. In PHYSICS AND CHEMISTRY OF GLASSES-EUROPEAN JOURNAL OF GLASS SCIENCE AND TECHNOLOGY PART B. ISSN 1753-3562, 2018, vol. 59, no. 6, pp. 259-266., Registrované v: WOS*

#### **AfE Abstrakty pozvaných príspevkov zo zahraničných konferencií**

AfE01      JANOTOVÁ, Irena - HOŠKO, Jozef - ŠVEC, Peter Jr. - MAŤKO, Igor - JANIČKOVIČ, Dušan - ŠVEC, Peter. The study of structure of Fe-B-P based metallic glasses. In Progress in Applied Surface, Interface and Thin Film Science 2012 ( SURFINT-SREN III ), May 14-18, 2012, Florence, Italy : Extended Abstract Book of Conference. - Bratislava : Comenius University, 2012, p. 123. ISBN 978-80-223-3212-5.

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*1. [1.1] LI, Jianbin - LU, Ming - AI, Yongbao - TAO, Cong - XIONG, Yun. Synthesis of Bulk Amorphous Alloy from Fe-Base Powders by Explosive Consolidation. In METALS. ISSN 2075-4701, 2018, vol. 8, no. 9, 727., Registrované v: WOS*

## *Príloha D*

### **Údaje o pedagogickej činnosti organizácie**

#### Semestrálne prednášky:

prof. Ing. Štefan Luby, DrSc.

Názov semestr. predmetu: Nanoelektronika a informatika

Počet hodín za semester: 2

Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Fakulta III. veku

Doc. RNDr. Martin Plesch, PhD.

Názov semestr. predmetu: Kvantové spracovanie informácie

Počet hodín za semester: 26

Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, FMFI

RNDr. Daniel Reitzner, PhD.

Názov semestr. predmetu: Introduction to Quantum Computer Programming

Počet hodín za semester: 28

Názov katedry a vysokej školy: Masarykova univerzita Brno, ČR, Fakulta informatiky

prof. Ing. Ivan Štich, DrSc.

Názov semestr. predmetu: Fyzika II

Počet hodín za semester: 40

Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biofyziky

Doc. Mgr. Mário Ziman, PhD.

Názov semestr. predmetu: Kvantová teória merania

Počet hodín za semester: 39

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

Doc. Mgr. Mário Ziman, PhD.

Názov semestr. predmetu: Matematické štruktúry kvantovej teórie

Počet hodín za semester: 52

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

Doc. Mgr. Mário Ziman, PhD.

Názov semestr. predmetu: Úvod do kvantového spracovania informácie

Počet hodín za semester: 26

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

Doc. Mgr. Mário Ziman, PhD.

Názov semestr. predmetu: Vybrané kapitoly z kvantovej teórie informácie

Počet hodín za semester: 39

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

Semestrálne cvičenia:

RNDr. Matej Pivoluska, PhD.

Názov semestr. predmetu: Randomizované algoritmy

Počet hodín za semester: 24

Názov katedry a vysokej školy: Fakulta Informatiky, Masarykova Univerzita, Katedra teórie programovania

RNDr. Daniel Reitzner, PhD.

Názov semestr. predmetu: Základy programování

Počet hodín za semester: 28

Názov katedry a vysokej školy: Masarykova univerzita Brno, ČR, Fakulta informatiky

Semináre:

Terénne cvičenia:

Individuálne prednášky:



**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
Belgicko	Dušan Janičkovič	2			Vladimír Bužek	4
	Dušan Janičkovič	2			Vladimír Bužek	6
	Dušan Janičkovič	2			Eva Majková	2
	Dušan Janičkovič	3				
	Dušan Janičkovič	4				
Česko					Michal Bodík	1
					Andrej Gendiar	3
					Ján Ivančo	1
					Pavol Kalinay	6
					Jozef Klimo	3
					Peter Nádaždy	3
					Peter Rapčan	1
					Anton Repko	14
					Peter Švec	1
Čína					Michal Bodík	8
					Peter Šiffalovič	8
Estónsko					Sebastian Vielhauer	33
Fínsko	Andrej Herzán	4			Daniel Nagaj	4
	Andrej Herzán	4			Michal Sedlák	5
	Štefan Luby	4				
	Martin Venhart	5				
Francúzsko	Ladislav Šamaj	30			Andrej Gendiar	5
	Peter Švec	3			Jakub Hagara	7
					Nad'a Mrkývková	6
					Peter Nádaždy	7
					Daniel Nagaj	3
					Peter Švec	4
Holandsko					Matej Jergel	2
India					Shivang Srivastava	5
Jamajka					Michal Sedlák	10
Japonsko					Ján Brndiar	14
					Andrej Gendiar	14
					Roman Krčmár	14
					Ivan Štich	13
Lotyšsko					Vladimír Bužek	7
Nemecko	Stanislav Hlaváč	3			Alica Brunová	6
					Vladimír Bužek	2
					Jakub Hagara	7
					Nad'a Mrkývková	3
					Nad'a Mrkývková	7
					Nad'a Mrkývková	3
					Peter Nádaždy	10

				Riyas Subair	7
				Peter Šiffalovič	7
				Karol Végső	9
Poľsko				Andrej Gendiar	6
Portugalsko				Michal Bodík	3
				Peter Šiffalovič	3
Rakúsko	Igor Mat'ko	6		Adriana Annušová	1
	Igor Mat'ko	5		Andrej Herzán	2
	Igor Mat'ko	7		Anna Kálosi	1
				Marek Mihalkovič	1
				Marek Mihalkovič	2
				Marek Mihalkovič	3
				Marek Mihalkovič	3
				Nad'a Mrkývková	1
				Peter Nádaždy	5
				Peter Rapčan	2
				Ladislav Šamaj	1
				Peter Šiffalovič	1
				Peter Šiffalovič	1
				Peter Šiffalovič	1
				Peter Šiffalovič	1
				Ivan Štich	4
				Martin Venhart	2
				Martin Venhart	1
				Sebastian Vielhauer	1
Rusko	Stanislav Dubnička	4			
	Stanislav Dubnička	4			
	Stanislav Dubnička	7			
	Ján Kliman	26			
	Ján Kliman	33			
	Ján Kliman	19			
	Andrej Liptaj	14			
	Vladislav Matoušek	19			
	Anton Repko	13			
Švajčiarsko	Cyril Adamuščín	9		Stanislav Dubnička	9
	Erik Bartoš	13		Stanislav Dubnička	14
	Štefan Luby	4		Shivang Srivastava	14
	Martin Venhart	2			
Taliansko	Peter Švec	3		Andrej Gendiar	4
USA				Vladimír Bužek	7
				Vladimír Bužek	4
				Marek Mihalkovič	26
Veľká Británia				Michal Sedlák	5
				Michal Sedlák	3
Vietnam				Stanislav Dubnička	8
<b>Počet vyslaní spolu</b>	<b>29</b>	<b>254</b>		<b>73</b>	<b>415</b>

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

Krajina	D r u h d o h o d y					
	MAD, KD, VTS		Medziústavná		Ostatné	
	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní
Česko					Mgr. Libor Caha	3
					Mgr. Libor Caha	42
Čína					Chun Yu Ling	54
Fínsko					Dr. Teiko Heinosaari	2
					Leevi Leppäjärvi	11
					Leevi Leppäjärvi	28
Francúzsko					Dr. Fan Sun	3
					Dr. Stefanie Delannoy	3
					Dr. Stefanie Delannoy	6
					Magdalena Zielinska	2
					Prof. Frederic Prima	3
Grécko					Mgr. Maria Elisavet Kouli	16
India					Chiranjib Mukhopadhyay	46
					Debmalya Das	6
					DR. Sourbh Thakur	11
					Prof. Bimal Kumar Sarkar, PhD.	61
Irán					Seyed Arash Ghoreishi	59
Nemecko					Dr. Martin Hodas	7
					Dr. Martin Hodas	5
					Martin Hodas	11
Poľsko					Prof. Dr. hab. Robert Kaminski	3
Rakúsko					Dr. Domenico Ribezzo	2
					Dr. Sebastian Neumann	2
					Dr. Ulrich Galander	2
					Univ.Prof. Dr.-Ing.habil.Dr.h.c. Jürgen Eckert	3
Rusko					Dr. Boris Rusanov	61
					Prof. Alexander I.Malachov	11
					Prof.Jurij Anisimov	11
Španielsko					Aleksander Marcin Kubicki	7
Veľká Británia					Dr. Harry Miller	5
					Dr. Mohammad Hamed Mohammady	3
					Sanjaye Ramgoolam	4
<b>Počet prijatí spolu</b>					<b>32</b>	<b>493</b>

**(C) Účast' pracovníkov pracoviska na konferenciách v zahraničí (nezahrnutých v "A"):**

<b>Krajina</b>	<b>Názov konferencie</b>	<b>Meno pracovníka</b>	<b>Počet dní</b>
Bulharsko	IWNT38-2019	Anton Repko	7
Česko	Seminár TAS	Igor Maťko	1
	Struktura 2019	Matej Jergel	4
	Trojkráľová konferencia (3KK2019)	Daniel Reitzner	2
	Workshop "NVIDIA Deep Learning Institute Workshop"	Peter Rapčan	1
Francúzsko	11th International PAMIR International Conference	Peter Švec	6
	16th European Conference on organized films	Michal Bodík	6
	EQTC 2019	Vladimír Bužek	3
		Mário Ziman	5
	IPOE 2019	Nad'a Mrkývková	6
	IUMRS-ICAM International Conference and Advanced M	Michal Bodík	6
	JENAS - 2019	Andrej Herzán	3
		Stanislav Hlaváč	5
India	NFCFA2019 Goa	Rupali Tiwari	6
	QFTA-2019	Mário Ziman	5
Japonsko	54th ASRC Int. Workshop Sakura-2019	Martin Venhart	6
	WCAM 2019	Eva Majková	6
Kórejská republika	AQIS 2019	Matej Pivoluska	7
		Martin Plesch	7
	Graphene Korea 2019	Ivan Štich	7
Maďarsko	JTACC+V4	Igor Maťko	4
Nemecko	ANALYTIX2019 Europe	Eva Majková	4
	ECMetAC Days 2018	Marek Mihalkovič	3
	FPi14	Jakub Hagara	6
	GISAXS 2019 Workshop	Peter Šiffalovič	5
	SPICE	Nad'a Mrkývková	5
Poľsko	51 Symposium on Mathematical Physics	Mário Ziman	4
	NanoTechPoland 2019	Adriana Annušová	6
	Symposium KCIK 2019	Mário Ziman	4
Rakúsko	eQCD konferencia	Stanislav Dubnička	6
	IAEA Technical Meeting	Stanislav Hlaváč	3
	Winterschool 2019	Nad'a Mrkývková	5
Rumunsko	EuroNanoForum 2019	Dušan Janičkovič	4
	Innovation Enterprise	Vladimír Bužek	3
Slovinsko	All about People: Future Fit	Štefan Luby	4
	ICQ14	Marek Mihalkovič	5
Spojené arabské emiráty	World Nano 2019	Ivan Štich	6
Španielsko	TNT 2019	Michal Bodík	6
Švajčiarsko	ISOLDE Workshop	Matúš Sedlák	2
	PCCO 2019	Alica Brunová	4
		Peter Šiffalovič	4
	Raman Workshop 2019	Anna Kálosi	4
Švédsko	IVC-21	Ashin Shaji	8

Taliansko	Graphene conference 2019	Anna Kálosi	5
	SURFINT-SREN VI	Róbert Brunner	6
		Beata Butvinová	6
		Emil Pinčík	6
Turecko	THERMAM 2018	Vlastimil Boháč	5
		Rupali Tiwari	5
USA	QIP 2019	Daniel Nagaj	10
		Michal Sedlák	10
Veľká Británia	Mathematical Foundations of Quantum Mechanics in m	Mohammed Hamed Mohammady	4
<b>Spolu</b>	<b>44</b>	<b>52</b>	<b>261</b>

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

### Skratky použité v tabuľke C:

11th International PAMIR International Conference - 11th International PAMIR International Conference  
16th European Conference on organized films - 16th European Conference on organized films  
51 Symposium on Mathematical Physics - 51 Symposium on Mathematical Physics  
54th ASRC Int. Workshop Sakura-2019 - 54th ASRC International Workshop Sakura-2019 - Nuclear Fission and Structure of Exotic Nuclei  
All about People: Future Fit - All about People: Future Fit  
ANALYTIX2019 Europe - ANALYTIX2019 Europe  
AQIS 2019 - AQIS 2019  
ECMetAC Days 2018 - ECMetAC Days 2018 Conference  
eQCD konferencia - 11th Excited QCD conference  
EQTC 2019 - European Quantum Flagship (EQTC 2019)  
EQTC 2019 - European Quantum Technologies Conference EQTC 2019  
EuroNanoForum 2019 - Konferencia EuroNanoForum 2019  
FPi14 - 14th International Symposium on Functional Pi-Electron Systems  
GISAXS 2019 Workshop - GISAXS 2019 Workshop  
Graphene conference 2019 - Graphene conference 2019  
Graphene Korea 2019 - Graphene Korea 2019  
IAEA Technical Meeting - Technical Meeting on Non-destructive Testing Using Muon Radiography: Present Status and Emerging Applications  
ICQ14 - 14th International Conference on Quasicrystals  
Innovation Enterprise - Innovative Enterprise Week 2019  
IPOE 2019 - 2nd International Conference on Interface Properties in Organics and Hybrid Electronics: Perspective and Key Challenges  
ISOLDE Workshop - ISOLDE Workshop  
IUMRS-ICAM International Conference and Advanced Materials - Spring Meeting 2019  
IVC-21 - International vacuum conference 2019  
IWNT38-2019 - International Workshop on Nuclear Theory  
JENAS - 2019 - Joint ECFA-NuPECC-APPECC seminar  
JTACC+V4 - 2nd Journal of Thermal Analysis and Calorimetry Conference  
Mathematical Foundations of Quantum Mechanics in m - Mathematical Foundations of Quantum Mechanics in memoriam Paul Busch.  
NanoTechPoland 2019 - NanoTechPoland 2019  
NFCFA2019 Goa - National Conference on "New frontiers of Chemistry"  
PCCO 2019 - PCCO 2019  
QFTA-2019 - Quantum Foundations, Technology and Applications QFTA-2019  
QIP 2019 - QIP 2019, 22nd Annual Conference on Quantum Information Processing  
Raman Workshop 2019 - Raman Workshop 2019  
Seminár TAS - Termodynamický Seminár  
SPICE - SPICE (Molecular Electro-Opto-Spintronics)  
Struktura 2019 - Struktura 2019  
SURFINT-SREN VI - SURFINT-SREN VI



Symposium KCIK 2019 - X Jubilee SYMPOSIUM KCIK I Symposium ICTQT-KCIK Quantum Resources and Their Application

THERMAM 2018 - THERMAM 2018

TNT 2019 - TNT Trends in Nano Technology International Conference

Trojkráľová konferencia (3KK2019) - Trojkráľová konferencia (3KK2019), stretnutie mladých českých a slovenských fyzikov

WCAM 2019 - World Congress of Advanced Materials

Winterschool 2019 - 11th European NESY Winterschool and Symposium on Neutron and Synchrotron Radiation

Workshop "NVIDIA Deep Learning Institute Workshop" - Workshop "NVIDIA Deep Learning Institute Workshop"

World Nano 2019 - World Nanotechnology Conference

**Príloha F**

**Vedecko-popularizačná činnosť pracovníkov organizácie SAV**

Meno	Spoluautori	Typ <sup>1</sup>	Názov	Miesto zverejnenia	Dátum alebo počet za rok
Mgr. Cyril Adamuščin, PhD.		PB	Akadémia trojstenu	FMFI UK	13.12.2019
Mgr. Cyril Adamuščin, PhD.		PB	DOD 2019 - Plochá či guľatá	<a href="https://www.fu.sav.sk/dod">https://www.fu.sav.sk/dod</a>	8.11.2019
Mgr. Andrej Gendiar, PhD.		PB	DOD 2019 - Kvantová fyzika v zakrivenom priestore	<a href="https://www.fu.sav.sk/dod">https://www.fu.sav.sk/dod</a>	4.11.2019
Mgr. Andrej Gendiar, PhD.		PB	Matematické biológia 2.	Múzeum G. Mendela v Brne (ČR)	6.11.2019
Mgr. Andrej Gendiar, PhD.		PB	Matematické biológia?!	Múzeum G. Mendela v Brne (ČR)	31.1.2019
Mgr. Andrej Gendiar, PhD.		PB	Sme stále na začiatku poznania?	Trenčianska Univerzita	26.10.2019
Ing. Ján Ivančo, DrSc.	Pracovníci OMN	EX	Exkurzia pre návštevu NanoLab-u	Bratislava	2019
Ing. Matej Jergel, DrSc.		PB	DOD 2019, prezentácia výskumných aktivít OMN	<a href="https://www.fu.sav.sk/dod">https://www.fu.sav.sk/dod</a>	4.11.2019
Ing. Matej Jergel, DrSc.		PB	Noc výskumníka, prezentácia výskumných aktivít v OMN	Stará tržnica, Bratislava	27.9.2019
RNDr. Pavol Kalinay, CSc.		PB	Akadémia trojstenu - Kedy poletíme na Mars	FMFI UK	13.12.2019
Dr.Rer.Nat. Ing. Mgr. Andrej Liptaj, PhD.		PB	DOD 2019 - Ako magnetická rezonancia zobrazuje telo?	<a href="https://www.fu.sav.sk/dod">https://www.fu.sav.sk/dod</a>	5.11.2019
prof. Ing. Štefan Luby, DrSc.		TL	články	Quark	2019
prof. Ing. Štefan Luby, DrSc.	žiadni	PB	Prednáška o A. Stodolovi	CVTI SR	2019
prof. Ing. Štefan Luby, DrSc.	žiadni	TV	Rozhovor o A. Stodolovi	TV	21.5.2019
RNDr. Lubomir Martinovič, CSc.		PB	BLTP: History and Present	SÚJV, Dubna, RF	4.7.2019
RNDr. Marek Mihalkovič, CSc.		iné	Malokarpatský festival vedy a techniky AMAVET	<a href="http://www.festivalvedy.sk/">http://www.festivalvedy.sk/</a>	17.4.2019
Mgr. Daniel Nagaj, PhD.		PB	Čo ani počítače budúcnosti nedokážu vypočítať	SAVinci kaviareň	30.1.2019
Doc. RNDr. Martin Plesch, PhD.		PB	DOD 2019 - Fyzika očami fyzikov	<a href="https://www.fu.sav.sk/dod">https://www.fu.sav.sk/dod</a>	5.11.2019
RNDr. Daniel Reitzner, PhD.		PB	Kvantová informácia v praxi	ČSOB	3.4.2019
RNDr. Daniel	Abuzer	iné	QDrive	FI MUNI, Brno	17.6.2019

Reitzner, PhD.	Yakarilmaz				
RNDr. Daniel Reitzner, PhD.	Abuzer Yakarilmaz	iné	QDrive	PF UPJŠ, Košice	26.6.2019
RNDr. Daniel Reitzner, PhD.	Mário Ziman, Diana Garafová	IN	Šifrovacia hra k Noci výskumníkov 2019	Noc výskumníkov	27.9.2019
Mgr. Michal Sedlák, PhD.		PB	DOD 2019 - Nakuknutie do sveta kvantového počítania a kryptografie	<a href="https://www.fu.sav.sk/dod">https://www.fu.sav.sk/dod</a>	5.11.2019
Mgr. Michal Sedlák, PhD.		PB	Peeping into the quantum cryptography world	FIT, BUT, Brno	4.11.2019
Ing. Peter Švec, DrSc.	Peter Švec ml.	EX	DOD 2019 - výskumné aktivity OFK	FÚ SAV	4.10.2019
Mgr. Martin Venhart, PhD.		PB	DOD 2019 - Ako vyzerá periodická sústava chemických prvkov v 21. storočí	<a href="https://www.fu.sav.sk/dod">https://www.fu.sav.sk/dod</a>	7.8.2019
Mgr. Martin Venhart, PhD.		TL	Na ceste za chemickými prvkami	Časopis Quark, číslo 6/2019	1.6.2019
Mgr. Martin Venhart, PhD.		PB	Sólo pre technécium	Vedecká kaviareň Košice, Tabačka	25.9.2019
Mgr. Martin Venhart, PhD.		RO	Tancujúci vedec	RTVS - Rádio Regina	21.9.2019
Mgr. Martin Venhart, PhD.	-	PB	Ako vyzerá periodická sústava chemických prvkov v 21. storočí	Petržalská superškola	15.1.2019
Mgr. Martin Venhart, PhD.	-	PB	Ako vyzerá periodická sústava prvkov v 21. storočí	Veda v divadle, Divadelný ústav, Bratislava	12.6.2019
Mgr. Martin Venhart, PhD.	-	PB	Odkiaľ sa vzali chemické prvky vo vesmíre	CVTI, Festivalu vedeckých filmov	27.5.2019
Mgr. Martin Venhart, PhD.	-	PB	Odkiaľ sa vzali chemické prvky vo vesmíre	Kolokvium Univerzity Mateja Bela, Banská Bystrica	13.3.2019
Mgr. Martin Venhart, PhD.	-	PB	Odkiaľ sa vzali chemické prvky vo vesmíre	Slovenská chemická spoločnosť, FCHPT STU	3.4.2019
Mgr. Martin Venhart, PhD.	-	PB	Odkiaľ sa vzali chemické prvky vo vesmíre	Slovenská chemická spoločnosť, FCHPT STU	3.4.2019
Mgr. Martin Venhart, PhD.	-	PB	Odkiaľ sa vzali chemické prvky vo vesmíre	Veda pri víne, Trnava	13.6.2019
Mgr. Martin Venhart, PhD.	-	PB	Odkiaľ sa vzali chemické prvky vo vesmíre	ZŠ Pezinok, Fándlyho 11	20.6.2019
Mgr. Martin Venhart, PhD.	-	PB	Prečo potrebujeme vedu?	Gymnázium Cyrila Daxnera, Vranov nad Topľou	25.6.2019
Mgr. Martin Venhart, PhD.	-	PB	Prečo potrebujeme vedu?	ZŠ Felix, Krásnohorská 1č, Bratislava	29.5.2019
Mgr. Martin Venhart, PhD.	-	PB	Slovak Republic at CERN	Smolenice	11.3.2019
Mgr. Martin Venhart, PhD.	-	PB	Slovenská republika v	Incheba, Bratislava	8.3.2019

PhD.			CERNe		
Mgr. Martin Venhart, PhD.	Matej Pok	DO	Písmená, ktoré tvoria svet. Nekonečný príbeh chemických prvkov	CVTI, Festival vedeckých filmov	27.5.2019
Doc. Mgr. Mário Ziman, PhD.	Daniel Reitzner, Diana Garafová	iné	Dešifruj 2019 - Noc výskumníkov	<a href="http://sifrovacka.nocvy.skumnikov.sk/2019/">http://sifrovacka.nocvy.skumnikov.sk/2019/</a>	26.9.2019
Ing. Yuriy Halahovets, PhD.		PB	Noc výskumníkov	Stara Tržnica, Bratislava	1
Ing. Ján Ivančo, DrSc.	Pracovníci OMN	iné	Noc výskumníka	Bratislava	1
prof. Ing. Štefan Luby, DrSc.	1	TL	články	Spektrum STU, Pokroky MFI	2
Ing. Vojtech Nádaždy, CSc.		iné	Noc výskumníka, prezentácia výskumných aktivít OMN	Stará tržnica	1
Doc. RNDr. Martin Plesch, PhD.	František Kundracik a.i.	iné	Turnaj mladých fyzikov	<a href="http://www.tmfsrc.sk">www.tmfsrc.sk</a>	7
Doc. RNDr. Martin Plesch, PhD.	Martin Chudjak, František Kundracik a.i.	iné	Olympiáda mladých vedcov	<a href="http://www.ijso.sk">www.ijso.sk</a>	5

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