

**Fyzikálny ústav SAV**



**Správa o činnosti organizácie SAV  
za rok 2018**

Bratislava  
január 2019

## **Obsah osnovy Správy o činnosti organizácie SAV za rok 2018**

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### ***PRÍLOHY***

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# 1. Základné údaje o organizácii

## 1.1. Kontaktné údaje

**Názov:** Fyzikálny ústav SAV

**Riaditeľ:** RNDr. Stanislav Hlaváč, CSc.

**Zástupca riaditeľa:** Ing. Peter Švec, DrSc.

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

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

**Predseda snemu SAV:** RNDr. Katarína Gmucová, CSc.

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

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**E-mail:** [secretary.fusav@savba.sk](mailto:secretary.fusav@savba.sk)

**Názvy a adresy detašovaných pracovísk:**

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

**Vedúci detašovaných pracovísk:**

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

**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
		M	Ž	M	Ž			
<b>Celkový počet zamestnancov</b>	115	86	29	22	9	110	82.27	64.77
<b>Vedeckí pracovníci</b>	72	64	8	8	3	69	61.1	60.52
<b>Odborní pracovníci VŠ</b> (výskumní a vývojoví zamestnanci <sup>1</sup> )	23	16	7	14	5	21	3.92	3.92
<b>Odborní pracovníci VŠ</b> (ostatní zamestnanci <sup>2</sup> )	7	0	7	0	1	7	5.59	0.33
<b>Odborní pracovníci ÚS</b>	13	6	7	0	0	13	11.66	0
<b>Ostatní pracovníci</b>	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 31.12.2018 (uvádzať zamestnancov v pracovnom pomere, vrátane riadnej materskej dovolenky, zamestnancov pôsobiacich v zahraničí, v štátnych funkciách, členov

*Predseda SAV, zamestnancov pôsobiach v zastupiteľských zboroch)*

*F – fyzický stav zamestnancov k 31.12.2018 (bez riadnej materskej dovolenky, zamestnancov pôsobiach v zahraničí v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiach v zastupiteľských zboroch)*

*P – celoročný priemerný prepočítaný počet zamestnancov*

*T – celoročný priemerný prepočítaný počet riešiteľov projektov*

*M, Ž – muži, ženy*

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

Rodová skladba	Pracovníci s hodnosťou				Vedeckí pracovníci v stupňoch		
	DrSc.	CSc./PhD.	prof.	doc.	I.	II. a.	II. b.
<b>Muži</b>	14	48	4	3	14	34	16
<b>Ženy</b>	1	8	0	0	1	2	5

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

Veková štruktúra (roky)	< 31	31-35	36-40	41-45	46-50	51-55	56-60	61-65	> 65
<b>Muži</b>	14	8	9	11	1	3	11	8	10
<b>Ženy</b>	5	4	3	1	0	0	0	2	1

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2018

	Kmeňoví zamestnanci		Vedeckí pracovníci		Riešitelia projektov	
	A	B	A	B	A	B
<b>Muži</b>	48.3	51.1	50.7	50.5	47.0	49.7
<b>Ženy</b>	44.1	47.7	45.6	45.3	38.2	43.2
<b>Spolu</b>	47.2	50.3	50.2	50.0	45.5	48.9

*A - Prepočet bez zohľadnenia úväzkov zamestnancov*

*B - Prepočet so zohľadnením úväzkov zamestnancov*

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

V októbri 2018 bola na nové funkčné obdobie zvolená Vedecká rada Fyzikálneho ústavu SAV, ktorá pracuje v obsadení:

**Interní členovia:** Ing. Vlastimil Boháč, CSc., Mgr. Andrej Gendiar, PhD., Ing. Štefan Gmuca, CSc., RNDr. Marián Krajčí, DrSc., RNDr. Igor Maťko, CSc., doc. RNDr. Martin Plesch, PhD., Mgr. Michal Sedlák, PhD., RNDr. Ondrej Šauša, CSc.

**Externí členovia:** doc. RNDr. Richard Hlubina DrSc. (FMFI UK), prof. Dr.h.c. RNDr. Michal Hnatič, DrSc. (ÚEF SAV), prof. Ing. Vladimír Nečas, PhD. (FEI STU).

**Predsedom VR** je Ing. Štefan Gmuca, CSc. a podpredseda Mgr. Andrej Gendiar, PhD.

## 2. Vedecká činnosť

### 2.1. Domáce projekty

Tabuľka 2a Domáce projekty riešené v roku 2018

ŠTRUKTÚRA PROJEKTOV	Počet		Čerpané financie (€)					
	A	B	A				B	
			Zo zdrojov SAV		Z iných zdrojov		Zo zdrojov SAV	Z iných zdrojov
			Spolu	Pre organizáciu	Spolu	Pre organizáciu		
1. Projekty VEGA	17	4	160759	156072	-	-	7821	-
2. Projekty APVV	11	9	-	-	463465	387428	-	131612
3. Projekty OP ŠF	0	0	-	-	-	-	-	-
4. Projekty SASPRO	4	0	122050	122050	-	-	-	-
5. Projekty centier excelentnosti SAV	0	0	-	-	-	-	-	-
6. Iné projekty (FM EHP, ŠPVV, Vedecko-technické projekty, ESF, na objednávku rezortov a pod.)	0	1	-	-	-	-	-	-

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

Tabuľka 2b Domáce projekty podané v roku 2018

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2018	Bratislava	3	5
2. Projekty výziev OP ŠF podané r. 2018	Bratislava		
	Regióny		

**2.2. Medzinárodné projekty****2.2.1. Medzinárodné projekty riešené v roku 2018**

Tabuľka 2c Medzinárodné projekty riešené v roku 2018

ŠTRUKTÚRA PROJEKTOV	Počet		Čerpané financie (€)					
	A	B	A				B	
			Zo zdrojov SAV		Z iných zdrojov		Zo zdrojov SAV	Z iných zdrojov
			Spolu	Pre organizáciu	Spolu	Pre organizáciu		
<b>1. Projekty 7. RP EÚ a Horizont 2020</b>	0	3	-	-	-	-	-	142238
<b>2. Projekty ERA.NET, ESA, JRP</b>	0	3	-	-	-	-	-	-
<b>3. Projekty COST</b>	2	2	-	-	-	-	-	-
<b>4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné</b>	2	1	-	-	2500	2500	-	-
<b>5. Projekty v rámci medzivládnych dohôd</b>	0	6	-	-	-	-	-	98549
<b>6. Bilaterálne projekty MAD</b>	2	0	-	-	-	-	-	-
<b>7. Bilaterálne projekty ostatné</b>	1	0	-	-	-	-	-	-
<b>8. Podpora MVTs z národných zdrojov (SAV, APVV a iné)</b>	3	9	24350	24350	-	-	78891	-
<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 2018

Tabuľka 2d Počet projektov Horizont 2020 v roku 2018

	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

1. V spolupráci so šiestimi ústavmi SAV sme podali v roku 2018 v rámci Bratislavského kraja návrh na projekt na vytvorenie a fungovanie Centra pre výskum a vývoj pokročilých materiálov SAV, Návrh je v štádiu vyhodnocovania.
2. V spolupráci s hlavným partnerom VÚJE a.s. Trnava a ďalšími piatimi partnermi pripravujeme v rámci výzvy Priemysel pre 21. storočie pre mimo bratislavské regióny návrh projektu GAMA, zameraný na výskum fyzikálnych, technických a materiálových aspektov plynom chladeného rýchleho reaktora IV. generácie.
3. V spolupráci s hlavným partnerom EIÚ SAV a ďalšími šiestimi partnermi pripravujeme v rámci výzvy Priemysel pre 21. storočie návrh projektu GaAs polohovo citlivého detektora pre zobrazovanie v medicíne a priemysle.

**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

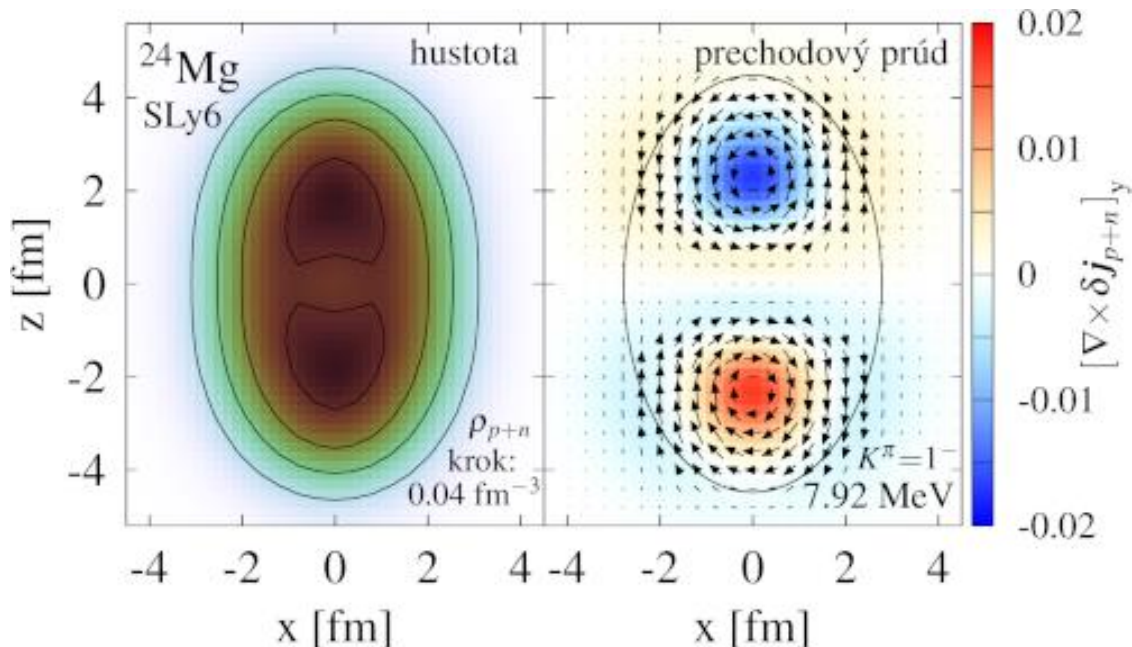
#### 1. miesto: Výpočet štruktúry excitácií v axiálne deformovaných jadrách metódou Skyrme RPA

**Riešitelia:** V. O. Nesterenko, A. Repko, J. Kvasil, P.-G. Reinhard

Vzbudené stavy jadier poskytujú bohatý materiál pre štúdium vlastností jadrovej hmoty, ako aj overovanie teoretických modelov jadrových interakcií. Medzi nimi majú dôležité miesto kolektívne excitácie, napríklad vibrácie rôznej multipolarity (monopólové, dipólové, kvadrupólové), ktoré je možné teoreticky popísať mikroskopickou metódou Random Phase Approximation (RPA). V spolupráci s prof. J. Kvasilom (ÚČJF MFF UK Praha) a V.O. Nesterenom (BLTF SÚJV Dubna) boli vyvinuté numericky efektívne programy na výpočet RPA so Skyrme funkcionálom vo sférických a axiálne deformovaných jadrách, vrátane odstránenia spurious prímiesí (napr. pohyb ťažiska; dôležité pre stavy s nízkou energiou). V predkladanej práci [1] sme v jadre horčíka 24 identifikovali výrazné vírivé prúdy v najnižšom dipólovom stave, ktorý má izoskalárny charakter, t.j. protóny aj neutróny sa pohybujú rovnakým smerom, a teda dochádza k potlačeniu radiačného (fotónového) prechodu. Ide o ľahké jadro s deformovaným tvarom a náznakmi klasterizácie (pozri obrázok).

Vírivé/ toroidálne prechody sú predpovedané aj v iných jadrách, najmä ich deformáciou vyvolaný posun do nižších energií, na rozdiel od izovektorových (fotónových) a izoskalárnych (kompresných) dipólových rezonancií, ktoré sa štiepia odlišne [2]. Vo väčšine jadier sú toroidálne prechody fragmentované do viacerých stavov, kde sa vírivý charakter prechodového prúdu prejaví až ich spriemerovaním. Vzhľadom na to, že podľa výpočtov zasahujú do tzv. pygmy rezonancie, ktorej sa často pripisoval nevírivý charakter, objasnenie ich povahy predstavuje dôležitú otázku

súvisiacu s popisom správania sa jadrovej hmoty (napr. aj v neutrónových hviezdach). Existencia dobre odlíšeneho stavu s toroidálnym charakterom (čiastočne aj v  $^{20}\text{Ne}$  [3]) vytvára predpoklad pre experimentálne overenie vírivých prúdov v jadrách, napr. pomocou nepružného rozptylu elektrónov.



Obr. Štruktúra najnižšieho vzбудeného stavu typu  $1^-$  v jadre  $^{24}\text{Mg}$  vypočítaná pomocou Skyrme RPA.

1. V. O. Nesterenko, A. Repko, J. Kvasil, P.-G. Reinhard: Individual Low-Energy Toroidal Dipole State in Mg-24. Phys. Rev. Lett. 120 (2018) 182501. IF=8.839, Q1
2. A. Repko, J. Kvasil, V.O. Nesterenko, P.-G. Reinhard: Pairing and deformation effects in nuclear excitation spectra. Eur. Phys. J. A 53 (2017), 221. IF=2.799, Q1
3. V. Nesterenko, J. Kvasil, A. Repko, P.-G. Reinhard: Individual low-energy E1 toroidal and compression states in light nuclei: deformation effect, spectroscopy and interpretation. EPJ Web Conf. 194 (2018) 03005 (bez IF a CC).

Ďalšie výsledky základného výskumu uvádzame bez udania poradia:

Názov príspevku: Nízko-dimenzionálne uhlíkové nanomateriály pre biomedicínu a elektroniku

Riešitelia: P. Šiffalovič a kol.

Názov príspevku: Shorter unentangled proofs for ground state connectivity

Riešitelia: D. Nagaj a kol.

Názov príspevku: Kvantové efekty z pohľadu stavov tenzorových sietí

Riešitelia: A. Gendiar a kol.

Názov príspevku: Správne hodnoty hmotností a totálnych širok  $f_0$  (500) a  $\rho^0$  (770) mezonov

Riešitelia: S. Dubnička a kol.



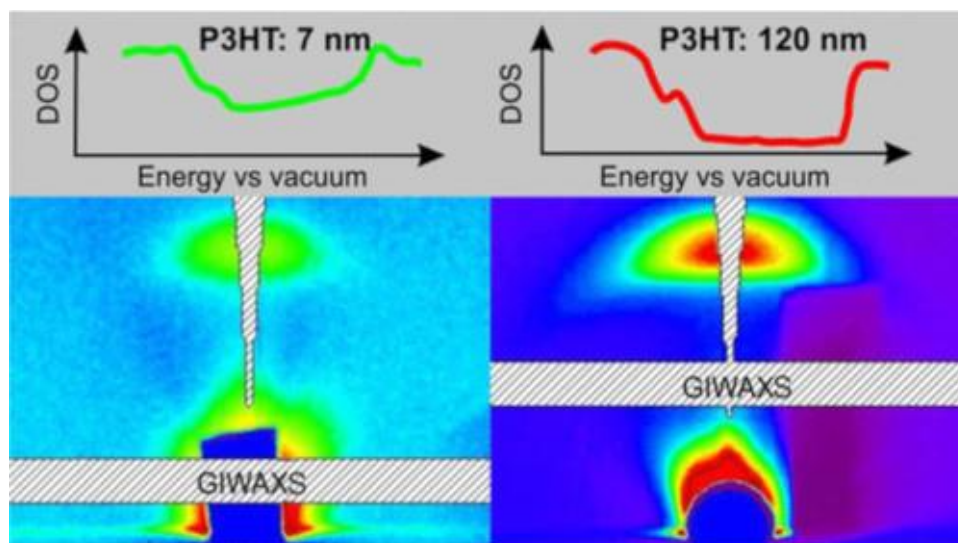
### 2.3.2. Aplikačný typ

#### 1. miesto: Mapovanie celého zakázaného pásu materiálov pre organickú a hybridnú fotovoltiku

**Riešitelia:** V. Nádaždy, K. Gmucová, P. Šiffalovič, K. Végső, P. Nádaždy, R. Subair, M. Jergel, M. Majková

**Projekty:** VEGA 1/0501/15, VEGA 2/0081/18, VEGA 2/0163/17, COST MP1307, COST CA15107, KONNECT, V4-Korea Joint Research Program On Chemistry and Chemical Engineering, SK-CN-RD-18-0006, ITMS 26240220028, ITMS 26240220047

Rozpracovali sme teoretický aparát pre novú metódu elektrochemickej impedančnej spektroskopie s energetickým rozlíšením (ER-EIS) na vyšetrovanie elektrónovej hustoty stavov (DOS) v organických polovodičoch [1,2]. Možnosť metódy ER-EIS mapovať celé zakázané pásmo polovodičov sme demonštrovali na vybraných prototypoch polymérov. Skúmali sme efekt hrúbky na tvorbu DOS súvisiacich so štruktúrnymi defektami v polyméri P3HT a koreláciu tejto DOS so stupňom kryštalinity vrstiev P3HT [3]. Prispeli sme k objasneniu vplyvu kryštalinity polyméru PMPSi, ktorá bola určená metódou rozptylu rtg žiarenia dopadajúceho pod malým uhlom (GIWAXS), na degradáciu UV žiarením [4], pričom zmeny DOS boli opäť merané metódou ER-EIS. Na nanokompozitných vrstvách polyméru MEH-PPV s nanočasticami  $\text{Co}_x\text{Zn}_{1-x}\text{O}$  sme zistili nárast DOS v zakázanom páse, čo malo za následok zníženie otváracieho elektrického napätia svetelných diód [5]. V súčasnosti pracujeme na príprave a charakterizácii perovskitových slnečných článkov [6,7] ako aj absorbérův  $\text{Cu}_2\text{ZnSnS}_4$  [8] a  $\text{Cu}_2\text{SnS}_3$  [9] pre slnečné články III. generácie v spolupráci s partnermi v Číne a na Slovensku.



Obr. Znáozornenie priebehu hustoty stavov (DOS) pre dve rôzne hrúbky polyméru P3HT a príslušné difrakčné obrazce získané metódou rtg difrakcie (GIWAXS).

1. F.Schauer, V. Nádaždy, K. Gmucová: Electrochemical impedance spectroscopy for study of electronic structure in disordered organic semiconductors-Possibilities and limitations. J. Appl. Phys. 123 (2018) 161590. IF 2.18, Q2
2. F.Schauer, V. Nádaždy, K. Gmucová, T. Váry: Electrochemically induced charge injection in disordered organic conductive polymers. J. Appl. Phys. 124 (2018) 165702. IF 2.18, Q2
3. V. Nádaždy, K. Gmucová, P. Nádaždy, P. Šiffalovič, K. Végső, M. Jergel, F. Schauer, E. Majková: Thickness Effect on Structural Defect-Related Density of States and Crystallinity in P3HT Thin Films on ITO Substrates. J. Phys. Chem. C 122 (2018) 5881. IF 3.40, Q1

4. F. Schauer, L. Tkáč, M. Ožvoldová, **V. Nádaždy**, **K. Gmucová**, **M. Jergel**, **P. Šiffalovič**: Effect of Crystallinity on UV Degradation of Poly[methyl(phenyl)silane] by Energy-Resolved Electrochemical Impedance Spectroscopy. AIP Advances 7 (2017) art.no. 055002. IF 1.65, Q2
5. D. Škoda, P. Urbánek, J. Sevčík, L. Munster, **V. Nádaždy**, D. A. Cullenc, P. Bažant, J. Antoš, I. Kuřitka: Colloidal cobalt-doped ZnO nanoparticles by microwave-assisted synthesis and their utilization in thin composite layers with MEH-PPV as an electroluminescent material for polymer light emitting diodes. Org. Electron. C 59 (2018) 337. IF 3.68, Q1
6. M. Wang, B. Li, **P. Šiffalovič**, L. C. Chen, G. Cao, J. Tian: Monolayer-like hybrid halide perovskite films prepared by additive engineering without antisolvents for solar cells. J. Mater. Chem. A 6 (2018) 15386. IF 9.93, Q1
7. B. Li, M. Wang, **R. Subair**, G. Cao, J. Tian: Significant Stability Enhancement of Perovskite Solar Cells by Facile Adhesive Encapsulation. J. Phys. Chem. C 122 (2018) 25260. IF 3.40, Q1
8. M. Hegedüs, P. Baláž, M. Baláž, **P. Šiffalovič**, N. Daneu, M. Kaňuchová, J. Briančin, M. Fabián: Mechanochemical approach to a  $\text{Cu}_2\text{ZnSnS}_4$  solar cell absorber via a "micro-nano" route. J. Mat. Sci. 53 (2018) 13617. IF 2.99, Q1
9. M. Hegedüs, M. Baláž, Tešínský, M. J. Sayagués, **P. Šiffalovič**, M. Krulaková, M. Kaňuchová, J. Briančin, M. Fabián, P. Baláž: Scalable synthesis of potential solar cell absorber  $\text{Cu}_2\text{SnS}_3$  (CTS) from nanoprecursors. J. Alloys and Compounds 768 (2018) 1006. IF 3.78, Q1

### 2.3.3. Medzinárodné vedecké projekty

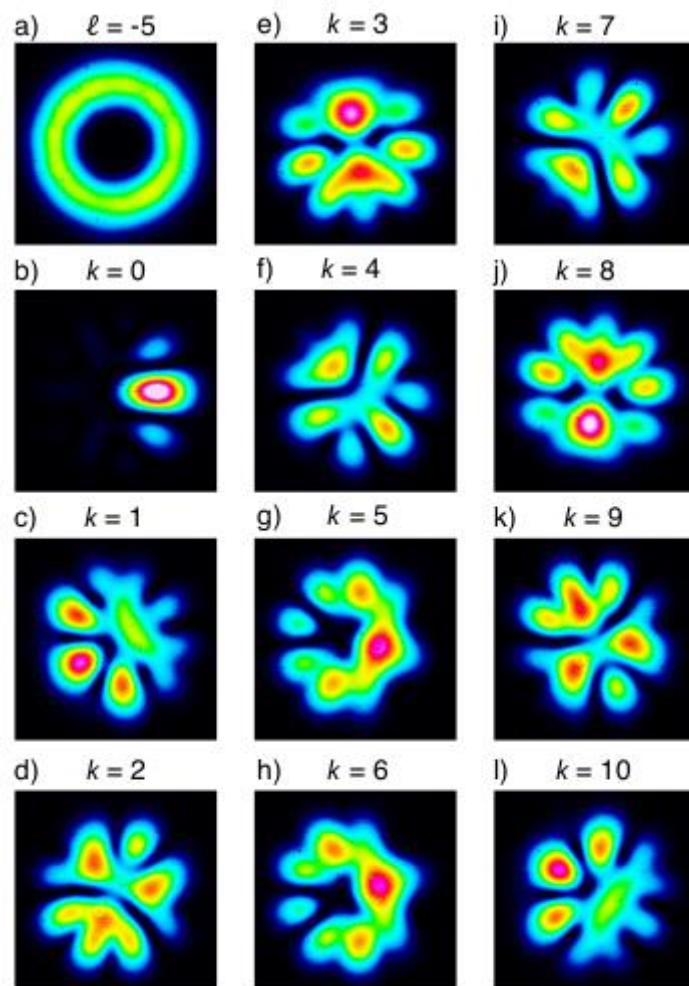
#### 1. miesto: Merania v dvoch bázach sú dostačujúce na certifikáciu vysoko-dimenzionálneho entanglementu

**Riešitelia:** J. Bavaresco, N. H. Valencia, C. Klöckl, **M. Pivoluska**, P. Erker, N. Friis, M. Malik, M. Huber

Kvantový entanglement je základnou vlastnosťou kvantových systémov. Existuje priame prepojenie medzi množstvom entanglementu v kvantových systémoch a výhodami, ktoré nám poskytuje kvantové spracovanie informácie v porovnaní s klasickým spracovaním informácie. Príkladmi takýchto výhod sú napríklad efektívnosť kvantovej komunikácie, alebo bezpečnosť kvantovej kryptografie. Produkcia a certifikácia kvantového entanglementu predstavuje experimentálnu a teoretickú výzvu, najmä pokiaľ ide o entanglement vysoko-dimenzionálnych kvantových systémov.

Základnou úlohou v snahe vyvinúť vysoko-dimenzionálne kvantové komunikačné protokoly je efektívna kvantifikácia dimenzionality, t.j. metóda na overenie, že sa naozaj podarilo vytvoriť kvantový entanglement vysokodimenzionálnych fyzikálnych systémov.

Medzinárodný výskumný tím vedený Dr. Marcusom Huberom z IQOQI vo Viedni, ktorého súčasťou bol aj Matej Pivoluska z FÚSAV, vytvoril novú techniku na certifikáciu vysoko-dimenzionálneho entanglementu. Metóda je veľmi efektívna v množstve potrebných meraní, pretože používa len dve merania pre ľubovoľný fyzikálny systém bez ohľadu na jeho dimenzionalitu. Toto je v priamom kontraste so staršími metódami, kde počet potrebných meraní rástol s dimenzionalitou systému.



Obr. Grafické reprezentácie fotónov s rôznymi priestorovými vlastnosťami – tzv. Laguerre-Gaussove módy svetla. Takéto fotóny boli použité na implementáciu vytvorenej metódy a certifikáciu 9-dimenzionálneho kvantového entanglementu.

1. J. Bavaresco, N. Herrera Valencia, C. Klöckl, **M. Pivoluska** et al.: Measurements in two bases are sufficient for certifying high-dimensional entanglement, *Nature Physics*, 14 (2018) 1032–1037. IF 22.61, Q1

**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. 2018/ doplňky z r. 2017</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>0 / 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>91 / 1</b>
<b>10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus (ADMA, ADMB, ADNA, ADN B)</b>	<b>25 / 1</b>
<b>11. Vedecké práce v ostatných domácich časopisoch (ADFA, ADFB)</b>	<b>0 / 0</b>
<b>12. Vedecké práce v ostatných zahraničných časopisoch (ADEA, ADEB)</b>	<b>6 / 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>15 / 0</b>
<b>16. Publikované príspevky na zahraničných vedeckých konferenciách (AFA, AFC)</b>	<b>1 / 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>2 / 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. 2017 (zdroj JCR)</b> <i>Počet článkov / doplnky 2016</i>	48 / 0	33 / 1	9 / 0	3 / 0	93 / 1
<b>Podľa SJR z r. 2017 (zdroj Scimago)</b> <i>Počet článkov / doplnky 2016</i>	75 / 0	18 / 0	5 / 2	18 / 0	116 / 2

Tabuľka 2g Ohlasy

<b>OHLASY</b>	<b>Počet v r. 2017/ doplnky z r. 2016</b>
<b>Citácie vo WOS (1.1, 2.1)</b>	2902 / 1
<b>Citácie v SCOPUS (1.2, 2.2)</b>	88 / 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>	2 / 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>	78
<b>Prednášky a vývesky na domácich vedeckých podujatiach</b>	4

## 2.6. Vyžiadané prednášky

### 2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

RNDr. Stanislav Dubnička, DrSc.

11. — 15. 3. 2018, Excited QCD 2018, Kopaonik, Srbsko, „Not all possible omega-phi mixing forms are physically acceptable“

17. — 22. 9. 2018, XXIV. International Baldin Seminar on High Energy Physics Problems, Dubna, Rusko, „Fully solvable mathematical scheme for finding out the right mass and width values of  $f_0(500)$  and  $\rho^0(770)$  mesons“

22. — 25. 10. 2018, Electromagnetic Structure of Strange Baryons, GSI Darmstadt, Nemecko, „Prediction of octet hyperon EM FF's behavior by the unitary and analytic model“

Ing. Štefan Gmuca, CSc.

17. — 22. 9. 2018, XXIV International Seminar on High Energy Physics Problems "Relativistic Nuclear Physics and Quantum Chromodynamics", Dubna, RF, „Relativistic density functional for nuclear matter“

Ing. Matej Jergel, DrSc.

26. — 28. 3. 2018, BIT's 6th Annual Conference of AnalytiX, Miami, USA, „Pentacene Growth on Graphene by Insitu X-ray Scattering at Grazing Incidence“

24. — 26. 10. 2018, BIT's 8th Annual World Congress of NanoScience & Technology, Fukuoka, Japonsko, „Surface Engineering for Advanced X-ray Crystal Optics“

19. — 22. 11. 2018, Solid State Surfaces and Interfaces, Smolenice, „Surface Finishing of X-ray Crystal Optics After Nanomachining“

prof. Ing. Štefan Luby, DrSc.

10. — 12. 10. 2018, Danube Academies Conference, Stuttgart, Nemecko, „Participation and success rate of Danube region countries in H2020“

RNDr. Eva Majková, DrSc.

23. — 27. 10. 2018, Nano Science and Technology NANO S&T 2018, Potsdam, Nemecko, „Real time monitoring of Pentacene Growth on Graphene by In-situ X-ray Scattering at Grazing Incidence“

5. — 8. 3. 2018, 21st Sede Boker Symposium Sede for Solar Electricity Product, Ben Gurion University, Izrael, „Time-resolved GIWAXS studies of the organometallic perovskite layer structure annealed at various temperatures correlated with DOS mapping by ER EIS“

11. — 13. 5. 2018, 3rd Int. Conference on Nanomaterials: Synthesis, Characterization and Applications (ICN 2018), Kottayam, Kerala, India, „Uniform assemblies of 2D nanosheets: formation, properties and applications“

RNDr. Mihalkovič, Marek, CSc.

3. — 5. 2018, ECMetAC Days 2018, Poznań, Poľsko, „Three dimensional local atomic configurations of decagonal AlNiCo quasicrystal studied by x-ray fluorescence holography“

RNDr. Emil Pinčík, CSc.

15. — 17. 11. 2018, The 4th International Congress on Advanced Materials, Zhenjiang, Čína, „Black silicon and porous silicon - application in solar cells“

RNDr. Daniel Reitzner, PhD.

10. — 15. 9. 2018, MIPT (PhysTech) QUANT 2018, MIPT, Moskva, RF, „Decoherence in Quantum-Walk Searches“

Mgr. Michal Sedlák, PhD.

8. — 12. 1. 2018, Hong Kong workshop on quantum information and foundations, The Role of The Observer, Hong Kong, Čína, „Perfect Probabilistic Storing and Retrieving of Unitary channels“

10. — 15. 9. 2018, MIPT (PhysTech) QUANT 2018, MIPT, Moskva, RF, „Perfect probabilistic storing and retrieving of unitary channels“

Ing. Peter Švec, DrSc.

2. — 6. 7. 2018, 16th IUPAC Conference on High Temperature Materials Chemistry (HTMC-XVI), Ekaterinburg, RF, „Processing of New Soft and Hard Magnetic Systems Prepared by Rapid Quenching of the Melt“

25. — 28. 9. 2018, ICAMP-9, Shenyang, Čína, „Preparation and processing of new rapidly quenched soft and hard magnetic systems“

8. — 10. 10. 2018, XIII Symposium of Magnetic Measurements & Modeling, Cracow - Wieliczka, Poľsko, „New developments in rapidly quenched soft and hard magnetic alloys“

prof. Ing. Ivan Štich, DrSc.

19. - 24. 8. 2018, European Advanced Material Congress, Stockholm, Švédsko, „Many-body quantum Monte Carlo study of 2D materials: cohesion and band gap in single-layer phosphorene“

7. - 17. 9. 2018, 19th International Microscopy Congress, Sydney, Austrália, „Atomic Force Microscopy Study of Superlubricity and its Limitations“

9. - 23. 6. 2018, 3rd International Symposium on Recent Trends in the Elucidation and Function Discovery of Next Generation Functional Materials of Surface/Interface Properties, Osaka, Japonsko, „Subatomic-scale resolution with SPM: Co adatom on p(2×1)Cu(110):O“

doc. Mgr. Mário Ziman, PhD.

21. — 24. 5. 2018, Hong Kong-Shenzhen Workshop on Quantum Information Science, Hong Kong, Čína, „Incompatibility and nonlocality for quantum process GPT“

21. — 24. 6. 2018, 50 Symposium on Mathematical Physics, Toruń, Poľsko, „Process estimation in the presence of time-invariant memory effects“

8. — 11. 9. 2018, International Iranian Conference on Quantum Information, Isfahan, Irán, „Incompatibility and nonlocality in quantum process GPTs“

17. — 21. 9. 2018, Conference on Quantum Machine Learning Plus, Innsbruck, Rakúsko, „Limitations on learning of quantum processes“

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

prof. Ing. Štefan Luby, DrSc.

23. — 26. 10. 2018, Nanoelectronics and Vacuum, School of Vacuum Technology, Vysoké Tatry, „Expansion of vacuum technology into microelectronics and nanoelectronics“

4. 12. 2018, rektorát STU pre Alumni STU, „Z histórie čs. mikroelektroniky“

doc. RNDr. Martin Plesch, PhD.

18. — 19. 10. 2018, Technologické fórum (AtoS), Jasná, Nízke Tatry, „Kvantové počítače: Dnešný stav a perspektíva“

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

RNDr. Daniel Reitzner, PhD.

3. — 7. 7. 2018, The Torun Astrophysics/Physics Summer School, Nicolaus Copernicus University in Torun, Poľsko, „Quantum Incompatibility for Quantum Key Distribution“

31. 5. 2018, School of Physics and Astronomy, Queen Mary University of London, Londýn, Veľká Británia, „Perfect probabilistic storing and retrieving of unitary channels“

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

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

### **2.7.1. Vynálezy, na ktoré bol udelený patent**

Na Slovensku - počet patentov: 2

Číslo PV: 288589

Mená autorov: Lányi Štefan, Nádaždy Vojtech

Názov vynálezu: Spôsob uskutočňovania lokálnej nábojovej tranzientnej analýzy

Majiteľ / spolumajiteľ: Centrum vedecko-technických informácií SR; Lamačská cesta 8/A, 811 04 Bratislava; SK; Fyzikálny ústav SAV; Dúbravská cesta 9, 845 11 Bratislava; SK

Číslo PV: 288586

Mená autorov: Švec Peter, Janičkovič Dušan, Švec Jr. Peter, Hoško Jozef, Halász Michal

Názov vynálezu: Spôsob tvarovania konštrukčného prvku

Majiteľ / spolumajiteľ: Centrum vedecko-technických informácií SR; Lamačská cesta 8/A, 811 04 Bratislava; SK; Fyzikálny ústav SAV; Dúbravská cesta 9, 845 11 Bratislava; SK

### **2.7.2. Prihlásené vynálezy**

**2.7.3. Predané licencie****2.7.4. Realizované patenty**

*Finančný prínos pre organizáciu SAV v roku 2018 a súčet za predošlé roky sa neuvádzajú, ak je zverejnenie v rozpore so zmluvou súvisiacou s realizáciou patentu.*

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

Tabuľka 2i Experti hodnotiaci národné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Bartoš Erik	APVV SK-PL	1
	VEGA	1
Běták Emil	KEGA	1
	VEGA	1
Butvinová Beata	APVV	1
Gendiar Andrej	APVV	1
	VEGA	1
Gmucová Katarína	VEGA	1

**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	3	0	0	0	0
Boháč Vlastimil	0	0	2	0	0	0	2
Butvin Pavol	0	0	0	0	0	0	1
Butvinová Beata	0	0	0	0	0	0	1
Gendiar Andrej	0	0	9	0	0	0	0
Gmuca Štefan	0	0	2	0	3	0	0
Ivančo Ján	0	0	1	0	0	0	0
Jergel Matej	0	0	3	0	0	0	0
Kalinay Pavol	0	0	4	0	0	0	1
Luby Štefan	0	0	1	0	1	0	0
Majková Eva	0	0	6	0	0	0	0



Martinovič Lubomir	0	0	2	0	0	0	0
Matoušek Vladislav	0	0	2	0	0	0	0
Nádaždy Vojtech	0	0	1	0	0	0	0
Nagaj Daniel	0	0	10	0	0	0	0
Pivoluska Matej	0	0	1	0	0	0	0
Plesch Martin	0	0	8	0	0	0	0
Rapčan Peter	0	0	1	0	0	0	0
Reitzner Daniel	0	0	7	0	0	0	0
Repko Anton	0	0	2	0	0	0	0
Sedlák Michal	0	0	2	0	1	0	0
Štich Ivan	0	8	8	0	0	0	0
Švec Peter	0	1	6	0	0	3	0
Ziman Mário	1	0	12	0	0	0	0
<b>Spolu</b>	<b>1</b>	<b>9</b>	<b>93</b>	<b>0</b>	<b>5</b>	<b>3</b>	<b>5</b>

## 2.11. Iné informácie k vedeckej činnosti.

Pokračovali sme v organizovaní Výročného seminára, ktorý sa konal v Kongresovom center SAV v Smoleniciach v dňoch 3. — 4. decembra 2018.

Cieľom seminára bolo priblížiť prácu a výsledky jednotlivých oddelení ostatným pracovníkom ústavu a vyhodnotiť najvýznamnejšie výsledky ústavu za rok 2018. Každé oddelenie prezentovalo svoju prácu a dosiahnuté výsledky v niekoľkých prednáškach. Jeden samostatný blok bol venovaný predstaveniu doktorandov a ich študijných plánov.

Počas prednášok boli navrhnuté aj práce resp. súbory prác do hodnotenia najvýznamnejších výsledkov. Najvýznamnejšie výsledky boli vyhodnotené Vedeckou radou na osobitnom zasadnutí. Časť programu bola venovaná interným otázkam ústavu a problematike transformácie samotnej SAV.

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

#### 3.1. Údaje o doktorandskom štúdiu

Tabuľka 3a Počet doktorandov v roku 2018

Forma	Počet k 31.12.2018						Počet ukončených doktorantúr v r. 2018					
	Doktorandi						Ukončenie z dôvodov					
	celkový počet		z toho novoprijatí		po skúške		ukončenie úspešnou obhajobou		predčasné ukončenie		neúspešné ukončenie	
	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž
<b>Denná zo zdrojov SAV</b>	14	6	2	4	8	2	1	0	2	0	0	0
<b>Denná z iných zdrojov</b>	0	0	0	0	0	0	0	0	0	0	0	0
<b>Externá</b>	0	0	0	0	0	0	1	0	1	0	0	0
<b>Spolu</b>	14	6	2	4	8	2	2	0	3	0	0	0
<b>Súhrn</b>	20		6		10		2		3		0	

*Uvádzajte len doktorandov organizácie ako externej vzdelávacej inštitúcie*

#### 3.2. Zmena formy doktorandského štúdia

Tabuľka 3b Počty preradení z dennej formy na externú a z externej na dennú

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

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

Tabuľka 3c Menný zoznam ukončených doktorandov v roku 2018 úspešnou obhajobou

Meno doktoranda	Forma DŠ	Mesiac, rok nástupu na DŠ	Mesiac, rok obhajoby	Číslo a názov študijného odboru	Meno a organizácia školiteľa	Fakulta udeľujúca vedeckú hodnosť
RNDr. Jozef Leja	externé štúdium	9 / 2011	11 / 2018	4.1.5 jadrová a subjadrová fyzika	Ing. Štefan Gmuca CSc., Fyzikálny ústav SAV	Fakulta matematiky, fyziky a informatiky UK
Marco Pelletta	interné štúdium hrazené z prostriedkov SAV	9 / 2014	7 / 2018	4.1.4 kvantová elektronika a optika	Dr. Rer. Nat. Peter Šiffalovič PhD., Fyzikálny ústav SAV	Fakulta matematiky, fyziky a informatiky UK

*Zoznam interných a externých doktorandov je uvedený v prílohe A.*

### 3.4. Medzinárodné doktorandské štúdium

Tabuľka 3d Počet študentov v medzinárodných programoch doktorandského štúdia

Cotutelle	Co-direction	Iné	Zahraniční doktorandi
0	0	0	8

### 3.5. Zoznam akreditovaných študijných odborov s uvedením VŠ

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

Názov študijného odboru (ŠO)	Číslo ŠO	Doktorandské štúdium uskutočňované na (univerzita/vysoká škola a fakulta)
všeobecná fyzika a matematická fyzika	4.1.2	Fakulta matematiky, fyziky a informatiky UK
fyzika kondenzovaných látok a akustika	4.1.3	
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 3f Účasť na pedagogickom procese

Menný prehľad pracovníkov, ktorí boli menovaní do spoločných odborových komisií pre doktorandské štúdium	Menný prehľad pracovníkov, ktorí pôsobili ako členovia vedeckých rád univerzít, správnych rád univerzít a fakúlt	Menný prehľad pracovníkov, ktorí získali vyššiu vedeckú, pedagogickú hodnotu alebo vyšší kvalifikačný stupeň
Doc. RNDr. Emil Běták, DrSc. (všeobecná fyzika a matematická fyzika)	Doc. RNDr. Emil Běták, DrSc. (Filozoficko-prirodovedecká fakulta Slezské univerzity, Česká republika)	Mgr. Andrej Herzán, PhD. (IIa)
Doc. RNDr. Emil Běták, DrSc. (jadrová a subjadrová fyzika)	Prof. RNDr. Vladimír Bužek, DrSc. (Fakulta matematiky, fyziky a informatiky UK)	Ing Peter Švec Jr., PhD. (IIa)
Doc. RNDr. Emil Běták, DrSc. (odbor v zahraničí)	Prof., Ing. Štefan Luby, DrSc. (Alma Mater Europaea Ascoli Piceno, Taliansko)	Ing. Ján Ivančo, DrSc. (DrSc., Univerzita Komenského v Bratislave)
Prof. RNDr. Vladimír Bužek, DrSc. (všeobecná fyzika a matematická fyzika)	RNDr. Eva Majková, DrSc. (Fakulta matematiky, fyziky a informatiky UK)	
RNDr. Stanislav Dubnička, DrSc. (všeobecná fyzika a matematická fyzika)	RNDr. Eva Majková, DrSc. (Univerzita Komenského v Bratislave)	
RNDr. Stanislav Dubnička, DrSc. (jadrová a subjadrová fyzika)	prof. Ing. Ivan Štich, DrSc. (Fakulta prírodných vied UCM)	
Mgr. Andrej Gendiar, PhD. (všeobecná fyzika a matematická fyzika)	Mgr. Martin Venhart, PhD. (Materiálovotechnologická fakulta STU v Trnave)	
Mgr. Andrej Gendiar, PhD. (všeobecná fyzika a matematická fyzika)		

Ing. Štefan Gmuca, CSc. (jadrová a subjadrová fyzika)		
Ing. Matej Jergel, DrSc. (fyzika kondenzovaných látok a akustika)		
Ing. Matej Jergel, DrSc. (kvantová elektronika a optika)		
Ing. Matej Jergel, DrSc. (fyzikálne inžinierstvo)		
RNDr. Pavol Kalinay, CSc. (všeobecná fyzika a matematická fyzika)		
Ing. 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)		

**3.6. Údaje o pedagogickej činnosti**

Tabuľka 3g Prednášky a cvičenia vedené v roku 2018

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
<b>Počet prednášateľov alebo vedúcich cvičení</b>	4	1	1	1
<b>Celkový počet hodín v r. 2018</b>	105	34	4	72

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

Tabuľka 3h Aktivity pracovníkov na VŠ

<b>1.</b>	<b>Počet pracovníkov, ktorí pôsobili ako vedúci alebo konzultanti diplomových a bakalárskych prác</b>	<b>9</b>
<b>2.</b>	<b>Počet vedených alebo konzultovaných diplomových a bakalárskych prác</b>	<b>16</b>
<b>3.</b>	<b>Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)</b>	<b>8</b>
<b>4.</b>	<b>Počet školených doktorandov (aj pre iné inštitúcie)</b>	<b>13</b>
<b>5.</b>	<b>Počet oponovaných dizertačných a habilitačných prác</b>	<b>6</b>
<b>6.</b>	<b>Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce</b>	<b>5</b>
<b>7.</b>	<b>Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác</b>	<b>0</b>
<b>8.</b>	<b>Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác</b>	<b>4</b>
<b>9.</b>	<b>Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti v inauguračnom alebo habilitačnom konaní na vysokých školách</b>	<b>2</b>

**3.7. Iné dôležité informácie k pedagogickej činnosti**

## 4. Medzinárodná vedecká spolupráca

### 4.1. Medzinárodné vedecké podujatia

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

eduQUTE Quantum Technology School, Bratislava, Slovensko, 58 účastníkov, 19.02.-22.02.2018

Pilotná škola bola organizovaná ako súčasť prípravy slovenskej výskumnej iniciatívy v oblasti kvantových technológií. Jeho hlavným cieľom bolo predstaviť základné fyzikálne princípy kvantových technológií vyvinuté výskumnými pracovníkmi na Slovensku. Jednotlivé témy prednášok boli prezentované na magisterskej úrovni.

MACROQUAS 2018 – Optomechanical route to macroscopic quantum superpositions, Bratislava, Slovensko, 21 účastníkov, 22.03.-23.03.2018

Cieľom seminára bolo poukázať na vhodnosť levitačnej optomechaniky ako skúšobného lôžka na skúmanie platnosti kvantovej teórie v mezoskopickú a makroskopickú mierku; identifikovať základné výzvy týchto testov a zaoberať sa príležitosťami, ktoré ponúka priestorová konfigurácia; porovnať možnosti levitačnej optomechaniky s funkciami iných platforiem, ako je napríklad magneto-levitačná jednotka na identifikáciu najvhodnejšej experimentálnej platformy. Workshop bol podporovaný programom COST Action CA15220 "Quantum Technologies in Space".

CEQIP 2018 – Central European Quantum Information Processing, Smolenice, Slovensko, 70 účastníkov, 13.06.-16.06.2018

CEQIP'18 bola v poradí 15. konferencia CEQIP. Konferencie sú zamerané na súčasné teoretické výzvy a paradigmy spracovania kvantovej informácie, avšak sú tiež otvorené pre každú výskumnú tému z oblasti kvantovej informácie. Jednou z jej silných stránok je tradične silný sociálny program, ktorý vytvára veľmi priateľskú a tvorivú atmosféru.

APCOM 2018 – Applied Physics of Condensed Matter, Štrbské Pleso, Slovensko, 80 účastníkov, 20.06.-22.06.2018

APCOM 2018 bola v poradí 24. medzinárodná konferencia v sérii stretnutí, ktoré začali v roku 1995 pracovným stretnutím pod názvom Solid State Physics and Radioactive Irradiation. Konferencia ponúka jedinečnú príležitosť pre odborníkov v oblasti aplikovaného fyzikálneho výskumu kondenzovaných látok, aby sa spojili a zdieľali svoje vízie budúceho vývoja napr. v oblasti použitia zariadení pre elektrickú a jadrovú energetiku, elektronickú a optickú komunikačnú techniku. Odznelo cca 65 prednášok na témy zamerané na javy a vlastnosti pozorované v moderných fyzikálnych a materiálových systémoch teoretickými, experimentálnymi a počítačovými metódami. Príspevky boli publikované v recenzovanom zborníku z podujatia, ktorý vyšiel v AIP Conference Proceedings 1996 (2018).

IC-MAST 2018 – 7th International Conference on Materials and Applications for Sensors and Transducers, Bratislava, Slovensko, 35 účastníkov, 24.09.-27.09.2018

Cieľom konferencie je vytvoriť fórum v oblasti materiálového výskumu a jeho aplikácií, najmä pre tie materiály, ktoré sa používajú pre snímače a zariadenia určené na prenos fyzikálnych vlastností. Súčasťou konferencie boli aj prehliadky laboratórií a prezentácia ústavu z hľadiska vývoja vhodných komplexných materiálov pre senzory na detekciu plynov.

SSSI 2018 – Solid State Surfaces and Interfaces, Smolenice Castle, Slovakia, 19.11.-22.11.2018

SSSI 2018 bola 10. medzinárodná konferencia v rámci sérií konferencií. Hlavným cieľom konferencie je prispieť k novým poznatkom pri

skúmaní povrchov, rozhraní, ultra-tenkých vrstiev a veľmi tenkých vrstiev s použitím anorganických a organických materiálov. Zoznam tém naznačuje, že záujmy konferencie pokrývajú vývoj základných teoretických, fyzikálnych a chemických princípov a príprav povrchov, tenkých vrstiev a procesov súvisiacich s rozhraním a zodpovedajúceho experimentálneho výskumu na atómovej úrovni. Aktuálne výsledky sa uplatňujú pri vývoji nových návrhov priemyselných zariadení potrebných na skúmanie elektrických, optických a štrukturálnych vlastností a ďalších parametrov skúmaných atomárnych objektov. Témy konferencie zahŕňajú aj prezentáciu nových zariadení v nasledujúcich oblastiach: solárne články, displeje z tekutých kryštálov, vysokoteplotná supravodivosť a snímače. Počas akcie je osobitná pozornosť venovaná hodnoteniu vedeckej a technickej úrovne prác pripravených PhD študentmi, ekologickému významu výroby energie z solárnych článkov a výstavám spoločností.

#### Gravity in Qubits, Smolenice, Slovensko, 16 účastníkov, 21.11.-24.11.2018

Účastníci konzorcia QSS sa v novembri stretli na Slovenskej akadémii vied na mimoriadnom kolokviu, aby diskutovali o možnostiach spoločného ovplyvnenia kvantovej výpočtovej techniky a kvantovej gravitácie. Zvláštny dôraz bol venovaný možnostiam budúcich experimentov na skúmanie kvantových gravitačných efektov a ich teoretických dôsledkov.

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

CEQIP 2019 – Central European Quantum Information Processing/CEQIP 2019 – Central European Quantum Information Processing, Skalica, Slovensko, 03.06.-06.06.2019, (Mário Ziman, 02/209107 kl. 04, mario.ziman@savba.sk)

IC-MSQUARE 2019 – 8th Int. Conference on Mathematical Modeling in Physical Sciences/IC-MSQUARE 2019 – 8th Int. Conference on Mathematical Modeling in Physical Sciences, Bratislava, Slovensko, 26.08.-30.08.2019, (Peter Švec, [59410] 561, 562, 570, 582, peter.svec@savba.sk)

CUF-MAST 2019 – Central Europe Forum for Materials and Applications for Sensors and Transducers, 8th IC-MAST/CUF-MAST 2019 – Central Europe Forum for Materials and Applications for Sensors and Transducers, 8th IC-MAST, Bratislava, Slovensko, 02.09.-05.09.2019, (Peter Švec, [59410] 561, 562, 570, 582, peter.svec@savba.sk)

ISTROS 2019 - Isospin, STructure, Reactions and energy Of Symmetry/ISTROS 2019 - Isospin, STructure, Reactions and energy Of Symmetry, Častá-Papiernička, 50 účastníkov, 20.10.-25.10.2019, (Martin Venhart, 02/ 59410 533, martin.venhart@savba.sk)

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

#### **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
Balogh Matúš	0	1	0
Hlaváč Stanislav	1	0	0
Janotová Irena	0	1	0

Jergel Matej	2	0	0
Mihalkovič Marek	0	1	0
Reitzner Daniel	0	0	1
Sedlák Matúš	0	1	0
Sedlák Michal	0	1	0
Švec Peter	1	0	1
Zemanová Martina	0	1	0
Ziman Mário	1	0	1
<b>Spolu</b>	<b>5</b>	<b>6</b>	<b>3</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: fellow)  
Institute of Physics (funkcia: člen Fellowship Panelu)

#### Ing. Vlastimil Boháč, CSc.

ASTM - American Society for Testing and Materials (funkcia: International Member)

#### 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)  
Americká chemická spoločnosť (funkcia: člen)

#### Ing. Ján Ivančo, DrSc.

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

#### 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: viceprezident)  
Európska akadémia vied a umení (funkcia: senátor)  
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 Mat'ko, 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 Štofánik, 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. Účasť expertov na hodnotení medzinárodných projektov (EÚ RP, ESF a iných)

Tabuľka 4b Experti hodnotiaci medzinárodné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Jergel Matej	Marie Curie Programme - AIAS-COFUND fellowships	4

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

Medzinárodná spolupráca nám otvára nové možnosti, pokračujúce spolupráce na novej úrovni a nové projekty s partnermi z popredných európskych a svetových pracovísk. Napríklad projekt M-ERA.NET n názvom NEXMAG, ktorý sme riešili od roku 2015 bol nedávno vyhodnotený ako M-ERA.NET Success Story 2018 a na jeho základe sme spolu s partnermi podali nový projekt COSMAG, ktorý je v štádiu evaluácie. Oba projekty H2020, ktoré sa v súčasnosti na ústave riešia sú tiež výsledkom predchádzajúcej medzinárodnej spolupráce.

Kolektív Oddelenia multivrstiev a nanoštruktúr v spolupráci s Univerzitou Tübingen je aktívnym užívateľom európskych zdrojov synchrotrónového žiarenia, osobitne ESRF v Grenobli, DESY v Hamburgu a Soleil v Gif-sur-Yvette. Tieto zdroje poskytujú vysoko kolimované a koherentné intenzívne zväzky elektromagnetického žiarenia pre in-situ a in-operando experimenty veľko- a malouhlového röntgenového rozptylu na nanoštruktúrach, ktoré umožňujú sledovať procesy na nanoškále v reálnom čase. V r. 2018 sa prebiehajúce experimenty sústredili na štúdium rastu orientovaných monovrstiev malých organických molekúl na dvojdimenzionálnych materiáloch (grafén, MoS<sub>2</sub>) pre aplikácie v optoelektronike, fotovoltike a spintronike.

Kolektív Oddelenia jadrovej fyziky je členom kolaborácie ISOLDE v CERN. Zariadenie ISOLDE je svetovým lídrom v oblasti produkcie zväzkov exotických izotopov. Členovia oddelenia sú vedúcimi (spokes persons) experimentov IS521 a IS581. Oddelenie jadrovej fyziky v CERN prevádzkuje spektrometer TATRA, ktorý umožňuje jedinečné merania konverzných elektrónov a gama žiarenia s vysokým rozlíšením. V roku 2018 sa skupina sústredila na experimenty s polarizovaným zväzkami rádioaktívnych iónov a ich aplikáciu v biologických vedách. Kvalita

výsledkov výskumného tímu ISOLDE zo Slovenska, ich nasadenie a tímová spolupráca boli potvrdené predstaviteľmi ECFA na mítingu časticovej komunity v Bratislave.

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

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

## **5. Vedná politika**

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

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

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

**Druh spolupráce (spoločné pracovisko alebo iné):** neformálna spolupráca — katedra Jadrovej fyziky a biofyziky MFF UK — UVP CAMBO MTF STU Trnava

**Začiatok spolupráce:** 2017

**Zameranie:** Spolupráca laboratórií elektrostatických urýchľovačov

**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:** Prírodovedecká fakulta UK

**Druh spolupráce (spoločné pracovisko alebo iné):** spoločný výskum

**Začiatok spolupráce:** 2011

**Zameranie:** Katedra inžinierskej geológie

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

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

**Druh spolupráce (spoločné pracovisko alebo iné):** iné

**Začiatok spolupráce:** 2010

**Zameranie:** Experimenty na charakterizáciu vlastností keramickej peny

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

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

**Druh spolupráce (spoločné pracovisko alebo iné):** iné

**Začiatok spolupráce:** 2010

**Zameranie:** Experimentálne a teoretické

**Zhodnotenie:** Spolupráca s Katedrou fyziky na FEI (v súčasnosti Oddelenie fyziky Ústavu jadrového a fyzikálneho inžinierstva) 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

**Druh spolupráce (spoločné pracovisko alebo iné):** VEGA - Spolupráca pri odvodení a testovaní fyzikálnych modelov (predtým APVV)

**Začiatok spolupráce:** 2011

**Zameranie:** Ústav jadrového a fyzikálneho inžinierstva

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

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

**Druh spolupráce (spoločné pracovisko alebo iné):** neformálna spolupráca, Erich Schmid Institute of Materials Science (spoločné pracovisko)

**Začiatok spolupráce:** 2011

**Zameranie:** experimentálne

**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:** Dokuz Eylul University Izmir, Turkey

**Druh spolupráce (spoločné pracovisko alebo iné):** Neformálna spolupráca - Department of Mechanical Engineering (Izmir) - Laboratory of thermophysics at the Department of metals (IP SAS)

**Začiatok spolupráce:** 2016

**Zameranie:** Termofyzikálne vlastnosti uhlíkových nanorúrok vyplňajúcich polymérne kompozity

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

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

**Zadávatel', odberateľ, zmluvný partner:** Arcibiskupský úrad, Bratislava

**Názov aplikácie/objekt výskumu:** Monitorovanie teplotno- vlhkostného režimu veže katedrále sv. Martina v Bratislave

**Začiatok spolupráce:** 2011

**Stručný opis aplikácie/výsledku:** Inštalovali sme monitorovacie zariadenie do veže a pripravili dlhodobý monitoring po odsúhlasení s Pamiatkovým úradom. Monitoring bude podávať obraz o degradácii muriva v dôsledku environmentálnej záťaže.

**Zhodnotenie (uviesť i finančný efekt z aplikácie v € pre organizáciu SAV):** 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)

**Zadávatel', odberateľ, zmluvný partner:** Geologische Bundesanstalt Wien v spolupráci so Štátnym geologickým ústavom Dionýza Štúra

**Názov aplikácie/objekt výskumu:** Laboratórne merania termofyzikálnych vlastností hornín

**Začiatok spolupráce:** 2017

**Stručný opis aplikácie/výsledku:** Geologische Bundesanstalt Wien, v spolupráci so Štátnym geologickým ústavom Dionýza Štúra rieši projekt „ZDROJE PLYTKEJ GEOTERMÁLNEJ ENERGIE – PLÁNOVANIE, HODNOTENIE A STRATÉGIE MAPOVANIA V STREDNEJ EURÓPE“, ktorý sa okrem iného týka hodnotenia energetického využitia geologického prostredia formou tepelných čerpadiel. V rámci tohto projektu nás jeden z partnerov projektu požiadal o laboratórne merania termofyzikálnych vlastností hornín.

**Zhodnotenie (uviesť i finančný efekt z aplikácie v € pre organizáciu SAV):** 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.

**Zadávatel', odberateľ, zmluvný partner:** Katedra inžinierskej geológie, Univerzita Komenského, Bratislava

**Názov aplikácie/objekt výskumu:** Monitorovanie teplotno-vlhkostného režimu pilierov kostola sv. Jakuba v Levoči

**Začiatok spolupráce:** 2012

**Stručný opis aplikácie/výsledku:** kontaktná osoba FÚ: J. Hudec

**Zhodnotenie (uviesť i finančný efekt z aplikácie v € pre organizáciu SAV):**

**Zadávateľ, odberateľ, zmluvný partner:** Technický a skúšobný ústav stavebný, n.o. Bratislava

**Názov aplikácie/objekt výskumu:** Monitorovanie tuhnutia betónových zmesí

**Začiatok spolupráce:** 2010

**Stručný opis aplikácie/výsledku:** Zrealizovali sme prvé porovnávacie experimenty monitorovania tuhnutia betónových zmesí v akreditovanom laboratóriu. Cieľom je dobudovať metodiku monitorovania tak, aby mohla byť zaradená medzi štandardné testovacie metódy.

**Zhodnotenie (uviesť i finančný efekt z aplikácie v € pre organizáciu SAV):** Pripravujú sa spoločné projekty ktoré zabezpečia finančný efekt pre FÚ a zároveň umožnia nadviazať užšie kontakty so stavebnými organizáciami. (kontakt FÚ: J. Hudec)

**Zadávateľ, odberateľ, zmluvný partner:** Ústav materiálov a mechaniky strojov, SAV

**Názov aplikácie/objekt výskumu:** Laboratórne merania termofyzikálnych vlastností hliníkovej peny.

**Začiatok spolupráce:** 2017

**Stručný opis aplikácie/výsledku:** Meranie termofyzikálnych vlastností hliníkovej peny bolo vykonané na vzorkách s rôznou hrúbkou. Porozita týchto materiálov je cca 70%, čo spôsobuje štatisticky veľký rozptyl hustoty materiálu. To má za následok, že tenšie hrúbky vzorky nemôžu reprezentovať objemové vlastnosti z makroskopického hľadiska. Lokálne fluktuácie porozity, resp. hustoty sa prejavili na rozptyle hodnôt tepelnej vodivosti v rozsahu 2-17W/mK. Ďalším krokom budú merania hliníkovej peny s pórmí vyplnenými PCM. Pomerne dobre tepelne vodivá matrica umožní rýchlejšiu akumuláciu tepla formou latentného tepla fázového prechodu. Impregnačný PCM materiál ktorý sa použije sú vosky.

**Zhodnotenie (uviesť i finančný efekt z aplikácie v € pre organizáciu SAV):** Podaný APVV projekt. Merania boli vykonané za účelom predbežne zhodnotiť prínos termofyzikálnych meraní pre spôsob aplikácie hliníkovej peny vyplnenej PCM pre možnosti uskladnenia tepelnej energie.

### 6.3. Iná činnosť využiteľná pre potreby spoločenskej praxe

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

### **7.1. Spoločné pracoviská s aplikačnou sférou**

Názov pracoviska: Integra TDS s.r.o., Piešťany

Partner(i): Integra TDS s.r.o.

Zameranie: vývoj a realizácia pokročilých prvkov röntgenovej kryštálovej optiky a vývoj novej deterministickej technológie nanoobrábania aktívnych röntgenových povrchov

Rok založenia: 2012

Zhodnotenie: Spolupráca je zameraná na vývoj a realizáciu pokročilých prvkov röntgenovej (rtg) kryštálovej optiky a v súvislosti s tým na vývoj novej deterministickej technológie nanoobrábania aktívnych rtg povrchov metódou jednobodového sústruženia diamantovým hrotom SPDT (single point diamond turning). V r. 2017 bol pomocou simulácií metódou "ray tracing" navrhnutý a v spolupráci s partnerskou firmou realizovaný originálny monolitický rtg monochromátor Ge(111) pracujúci na princípe opakovanej asymetrickej difrakcie, ktorý spája vysokú intenzitu a vysoký kompresný pomer výstupného rtg zväzku. To umožní podstatne zvýšiť kvalitu laboratórnych meraní malouhlového rtg rozptylu oproti komerčným zariadeniam. Ďalej bola navrhnutá zostava monochromátorov pre pilotné testy integrovanej difrakčno-reflexnej optiky do mikrofokusných rtg zdrojov vo firme Incoatec GmbH, Geesthacht, Nemecko, ktorú v súčasnosti firma Integra TDS realizuje novou technológiou nanoobrábania.

Názov pracoviska: COLVER

Partner(i): COLVER

Zameranie: meranie tepelných vlastností izolačných dvojskiel s nanosenou vrstvou polyméru zachytávajúceho teplo

Rok založenia: 2017

Zhodnotenie: Meranie tepelných vlastností izolačných dvojskiel s nanosenou vrstvou polyméru zachytávajúceho teplo. Polymérna vrstva slúži ako bariéra prestupu tepla. Teplo unikajúce z miestnosti oknom sa akumuluje v nanosenej vrstve a tým znižuje straty tepla prestupom von z budovy. Boli merané koeficienty tepelnej a teplotnej vodivosti a hmotnostnej tepelnej kapacity. Ďalšie merania odrazivosti a priepustnosti žiarenia pre vlnové dĺžky 300-1100nanometrov boli vykonané v spolupráci s FEI STU.

Názov pracoviska: ETOP alternative energy, s.r.o.

Partner(i): Ing. Vladimír Lukáč

Zameranie: budovanie systémov pre sezónne úložiská tepelnej energie

Rok založenia: 2017

Zhodnotenie: V rámci spolupráce sme merali termofyzikálne vlastnosti geologických materiálov zo zemského podlažia domov, pri ktorých sa budovali energetické úložiská tepla. Zaviedli sme nový spôsob merania termofyzikálnych vlastností materiálov, ktoré nie sú geometricky stabilné ako napr. mokrá hlina, ktorá je častým materiálom podlažia budov. Získané dáta sa používajú na teoretické výpočty teplotných polí v okolí energetických ihliel zavrtaných do podlažia pri domoch. Výsledky výpočtov umožňujú optimalizáciu režimu ukladania tepla v danom prostredí.

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

### **7.3. Iná činnosť využiteľná pre potreby hospodárskej praxe**



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

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

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

Meno pracovníka	Názov orgánu	Funkcia
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
Ing. Matej Jergel, DrSc.	M-ERA.NET Strategic Expert Group for M-ERA.NET Call 2019	člen
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.	Komisia pre návrh štátnych vyznamenaní	člen
	pracovná skupina pre hodnotenie OP VaI	člen
	Monitorovací výbor Operačného programu Výskum a inovácie	člen
	Stála komisia Rady vlády pre vedu, techniku 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 samosprávu**

## **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>
Ing. Matej Jergel, DrSc.	Rada APVV pre prírodné vedy	člen

## **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	25	tlač	5	TV	0
rozhlas	4	internet	2	exkurzie	1
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	0
iné	4				

### 9.2. Vedecko-organizačná činnosť

Tabuľka 9b Vedecko-organizačná činnosť

Názov podujatia	Domáca/ medzinárodná	Miesto	Dátum konania	Počet účastníkov
eduQUTE Quantum Technology School	medzinárodná	Bratislava, Slovensko	19.02.-22.02.2018	58
MACROQUAS 2018 – Optomechanical route to macroscopic quantum superpositions	medzinárodná	Bratislava, Slovensko	22.03.-23.03.2018	21
CEQIP 2018 – Central European Quantum Information Processing	medzinárodná	Smolenice, Slovensko	13.06.-16.06.2018	70
APCOM 2018 – Applied Physics of Condensed Matter	medzinárodná	Štrbské Pleso, Slovensko	20.06.-22.06.2018	80
IC-MAST 2018 – 7th International Conference on Materials and Applications for Sensors and Transducers	medzinárodná	Bratislava, Slovensko	24.09.-27.09.2018	35
SSSI 2018 – Solid State Surfaces and Interfaces	medzinárodná	Smolenice Castle, Slovakia	19.11.-22.11.2018	-
Gravity in Qubits	medzinárodná	Smolenice, Slovensko	21.11.-24.11.2018	16

### 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
Balogh Matúš	0	1	0
<b>Spolu</b>	0	1	0

## 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. Peter Filip, PhD.

Slovenská Fyzikálna Spoločnosť (funkcia: tajomník)

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 SAV (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: člen)

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, dňa 7. 11. 2018 FÚ SAV zorganizoval každoročné podujatie „Deň otvorených dverí na FÚ SAV 2018“ určené širokej verejnosti, ale hlavne študentom stredných a vysokých škôl. Celé kolo prednášok, plus prehliadku laboratórií Nanolab, Laboratórium kvantových meraní a Laboratórium technológie výroby kovových skiel absolvovali žiaci sexty a septimy zo [Školy pre mimoriadne nadané deti a Gymnázium](#).

Na podujatí odzneli prednášky:

- Cyril Adamuščin – „Plochá Zem a geocentrizmus“ (O histórii a o tom, ako si ich overiť na vlastné oči.)
- Daniel Reitzner – „Praktické využitie kvantovej informácie“ (O kvantových technológiách.)
- Matúš Balogh – „CERN – od časticovej fyziky cez atómové jadrá k aplikáciám v medicíne a IT“

Návštevníci si taktiež mohli prezrieť priestory našich laboratórií, kde im pracovníci Oddelenia

fyziky kovov, Oddelenia multivrstiev a nanoštruktúr a Spoločného laboratória MLC a FÚ SAV poskytli pútavé výklady.

Pracovníci FÚ SAV sa zúčastnili na Európskej Noci výskumníkov 2018 kde v samostatných stánkoch zoznamovali účastníkov s nie každodennými javmi kvantového sveta (Kvantové teChnológie pre KAždého), s neznámymi vlastnosťami nanosveta a jeho pestrými farbami (Farebný svet nanočastíc) ako aj potrápili logické závity v stánku Medzinárodný turnaj mladých fyzikov. Šifrátori z Centra pre výskum kvantovej informácie pripravili pre vaše potešenie šifrovaciu hru D3\$ifru7.

## 10. Činnosť knižnično-informačného pracoviska

### 10.1. Knižničný fond

Tabuľka 10a Knižničný fond

Knižničné jednotky spolu		
z toho	knihy a zviazané periodiká	10517
	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		15
v tom	kúpou	15
	darom	
	výmenou	
	bezodplatným prevodom	
	náhradou	
Úbytky knižničných jednotiek		
Knižničné jednotky spracované automatizovane		1335

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)		381
v tom z r. 1	prezenčné výpožičky	312
	absenčné výpožičky	
v tom z r. 1	odborná literatúra pre dospelých	
	výpožičky periodík	69
MVS iným knižniciam		34
MVS z iných knižníc		21
MMVS iným knižniciam		
MMVS z iných knižníc		
Počet vypracovaných bibliografií		



Počet vypracovaných rešerší	2
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### 10.3. Používatelia

Tabuľka 10c Používatelia

Registrovaní používatelia	95
Návštevníci knižnice spolu (bez návštevníkov podujatí)	99

### 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 €	1212

### 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)

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)

### **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 Mat'ko, 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 RO SAV

### 12.1. Výdavky PO SAV

Tabuľka 12a Výdavky PO SAV (v €)

V ý d a v k y	Skutočnosť k 31.12.2018 spolu	v tom:			
		zo ŠR od zriaďovateľa	z vlastných zdrojov	z iných zdrojov	z toho: ŠF EÚ
<b>Výdavky spolu</b>	3426341	2185137	136349	1104855	57800
<b>Bežné výdavky</b>	3405967	2178387	134596	1092984	57800
<b>v tom:</b>					
mzdy (610)	1527572	1238093	13494	275984	7970
poistné a príspevok do poisťovní (620)	523724	427510	5730	90484	1765
tovary a služby (630)	933757	358104	107747	467906	17656
z toho: časopisy	2601	2601			
VEGA projekty	146208	146208			
MVTS projekty	82655	82655			
CE					
vedecká výchova	7280	7280			
bežné transfery (640)	394164	127929	7625	258610	30408
z toho: štipendiá	149412	121949	7625	19838	408
transfery partnerom projektov	264222	25450		238772	30000
<b>Kapitálové výdavky</b>	20374	6750	1753	11871	
<b>v tom:</b>					
obstarávanie kapitálových aktív	20374	6750	1753	11871	
kapitálové transfery					
z toho: transfery partnerom projektov					

**12.2. Príjmy PO SAV**

Tabuľka 12b Príjmy PO SAV (v €)

<b>P r í j m y</b>	<b>Skutočnosť k 31.12.2018 spolu</b>	<b>v tom:</b>	
		<b>rozpočtové</b>	<b>z mimoroz p. zdrojov</b>
<b>Príjmy spolu</b>	995855	722058	273797
<b>Nedaňové príjmy</b>	84147		84147
<b>v tom:</b>			
príjmy z prenájmu	17599		17599
príjmy z predaja výrobkov a služieb	49301		49301
iné	17247		17247
<b>Granty a transfery (mimo zdroja 111)</b>	911708	722058	189650
<b>v tom:</b>			
<b>tuzemské</b>	722058	722058	
<b>z toho: APVV</b>	722058	722058	
<b>iné</b>			
zahraničné	189650		189650
z toho: projekty rámcového programu EÚ			
iné			

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

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

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

### **15.1. Domáce ocenenia**

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

##### **Brndiar Ján**

Ocenenie špičkových publikácií v časopisoch

*Oceňovateľ: Predsedníctvo SAV*

##### **Bužek Vladimír**

Zlatá medaila SAV

*Oceňovateľ: Predsedníctvo SAV*

*Opis: Medaila*

##### **Pivoluska Matej**

Najreprezentatívnejší výsledok FÚ v kategórii zahraničná spolupráca

*Oceňovateľ:*

##### **Štich Ivan**

Ocenenie špičkových publikácií v časopisoch

*Oceňovateľ: Predsedníctvo SAV*

##### **Turanský Robert**

Ocenenie špičkových publikácií v časopisoch

*Oceňovateľ: Predsedníctvo SAV*

#### **15.1.2. Iné domáce ocenenia**

##### **Kliman Ján**

Cena za vedu

*Oceňovateľ: Slovenská fyzikálna spoločnosť*

##### **Luby Štefan**

Cena excelentnosti

*Oceňovateľ: Nadacia S. Kassaya*

*Opis: zlatý emblem*

##### **Luby Štefan**

Medaila pri 25. výročí Slovenskej vákuovej spoločnosti

*Oceňovateľ:*

*Opis: Medaila*

##### **Luby Štefan**

Medaila pri 80. výročí CVTI SR

*Oceňovateľ: CVTI SR*

*Opis: Medaila*



**Plesch Martin**

Generácia 3.0

*Oceňovateľ: Nadácia Pontis*

*Opis: Cena Generácie 3.0 pre Turnaj mladých fyzikov.*

**Reitzner Daniel**

Mladý vedece roka 2017

*Oceňovateľ: CVTI SR, ZSVTS, SAV*

**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**

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

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

**Riaditeľ organizácie SAV**

**Predseda vedeckej rady**

.....  
RNDr. Stanislav Hlaváč, CSc.

.....  
Ing. Štefan Gmuca, CSc.

## Prílohy

### Príloha A

#### Zoznam zamestnancov a doktorandov organizácie k 31.12.2018

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

	Meno s titulmi	Úväzok (v %)	Ročný prepočítaný úväzok
<b>Vedúci vedeckí pracovníci DrSc.</b>			
1.	Doc. RNDr. Emil Běták, DrSc.	70	0.70
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. Matej Jergel, DrSc.	100	1.00
6.	Ing. Ján Kliman, DrSc.	70	0.70
7.	RNDr. Marián Krajčí, DrSc.	100	1.00
8.	Ing. Štefan Lányi, DrSc.	70	0.70
9.	Prof.,Ing. Štefan Luby, DrSc.	100	1.00
10.	RNDr. Eva Majková, DrSc.	50	0.50
11.	RNDr. Miroslav Nagy, DrSc.	100	0.92
12.	RNDr. Ladislav Šamaj, DrSc.	100	1.00
13.	prof. Ing. Ivan Štich, DrSc.	100	1.00
14.	Ing. Peter Švec, DrSc.	100	1.00
<b>Vedúci vedeckí pracovníci CSc., PhD.</b>			
1.	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	0.33
9.	Mgr. Andrej Gendiar, PhD.	100	1.28
10.	Ing. Štefan Gmuca, CSc.	100	1.00
11.	RNDr. Katarína Gmucová, CSc.	100	1.00

12.	Mgr. Andrej Herzáň, PhD.	100	0.92
13.	Ing. Ján Ivančo, DrSc.	100	1.00
14.	RNDr. Pavol Kalinay, CSc.	100	1.00
15.	Dr.Rer.Nat. Ing. Mgr. Andrej Liptaj, PhD.	100	0.47
16.	RNDr. Lubomir Martinovič, CSc.	100	0.00
17.	RNDr. Igor Mat'ko, CSc.	100	1.00
18.	Ing. Vladislav Matoušek, CSc.	100	1.00
19.	RNDr. Marek Mihalkovič, CSc.	100	1.00
20.	Ing. Vojtech Nádaždy, CSc.	100	1.00
21.	Mgr. Daniel Nagaj, PhD.	100	1.00
22.	RNDr. Emil Pinčík, CSc.	100	1.00
23.	Doc. RNDr. Martin Plesch, PhD.	100	1.00
24.	RNDr. Daniel Reitzner, PhD.	100	1.00
25.	RNDr. Anton Repko, PhD.	100	0.92
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.	100	1.00
30.	Ing Peter Švec Jr., PhD.	100	1.00
31.	Ing. Igor Travěnc, CSc.	100	1.00
32.	RNDr. Robert Turanský, PhD.	100	1.00
33.	Mgr. Martin Venhart, PhD.	90	0.90
34.	Mgr. Martin Veselský, PhD.	100	1.00
35.	Ing. Viliam Vretenár, PhD.	50	0.50
36.	Doc. Mgr. Mário Zíman, PhD	100	1.00
<b>Vedeckí pracovníci</b>			
1.	Mgr. Adriana Annušová, PhD.	100	0.88
2.	RNDr. Monika Benkovičová, PhD.	100	1.00
3.	RNDr. Róbert Brunner, CSc.	100	1.00
4.	Ing. Yuriy Halahovets, PhD.	100	1.00
5.	Ing. Ján Hudec, PhD.	34	0.34
6.	Ing. Irena Janotová, PhD.	100	1.00
7.	Ing. Mário Kotlár, PhD.	20	0.27
8.	RNDr. Tomáš Krajňák, PhD.	100	1.00
9.	Mgr. Roman Krčmár, PhD.	100	1.00

10.	Mgr. Lubos Krupa, PhD.	100	0.00
11.	Mgr. Martina Miklošovičová, PhD.	50	0.50
12.	RNDr. Nad'a Mrkývková, PhD.	60	0.60
13.	Dr. Krisztián Palotás	100	1.00
14.	RNDr. Matej Pivoluska, PhD.	100	1.00
15.	Dr. Pareshkumar Manharbhai Prajapati	100	1.00
16.	Mgr. Peter Rapčan, PhD.	100	1.28
17.	Ing. Jaroslav Rusnák, PhD.	100	1.00
18.	Mgr. Ján Škoviera, PhD.	100	1.00
19.	Ing. Vladimír Štofanič, PhD.	25	0.25
20.	RNDr. Kamil Tokár, PhD.	100	1.00
21.	Mgr. Karol Végső, PhD.	100	0.07
<b>Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)</b>			
1.	Mgr. Matúš Balogh	5	0.05
2.	Mgr. Michal Bodík	5	0.05
3.	Mgr. Alica Brunová	5	0.02
4.	Mgr. Katarína Čechová	5	0.05
5.	Mgr. Mirdit Doda	5	0.01
6.	Mgr. Jakub Hagara	5	0.05
7.	RNDr. Dušan Janičkovič	100	1.00
8.	Ing. Anna Kálosi	5	0.05
9.	Mgr. Dušan Kamas	100	0.03
10.	Mgr. Gulnur Kantay	5	0.01
11.	Mgr. Jozef Klimo	100	0.45
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	0.02
16.	Ing. Matúš Sedlák	5	0.05
17.	Ing. Rudolf Senderák, Piešťany	70	0.73
18.	MSc. Ashin Shaji	5	0.05
19.	Mgr. Shivang Srivastava	0	0.00
20.	Mgr. Riyas Subair	5	0.05
21.	Mgr. Rupali Tiwari	5	0.01
22.	Mgr. Róbert Urban	100	0.45

23.	Ing. Martina Zemanová	50	0.50
<b>Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)</b>			
1.	Mgr. Ursula Juhásová	55	0.55
2.	Ing. Mária Jusková	35	0.35
3.	Ing. Lenka Kabátová	100	1.00
4.	Ing. Jana Kováčová	100	1.00
5.	Ing. Beata Solčianska	100	1.00
6.	Mgr. Mária Surovcová, PhD.	100	0.33
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.	Blanka Nemčovská	65	0.65
9.	Gustáv Pomšár, Ved. dielňa, technik	100	1.00
10.	Ivan Sabo	60	0.60
11.	Oľga Švančarová	70	0.70
12.	Peter Zitto	50	0.50
13.	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.	Mgr. Martin Veselský, PhD.	31.12.2018	1.00
<b>Vedeckí pracovníci</b>			
1.	RNDr. René Derian, PhD.	30.4.2018	0.33
2.	Mgr.Ing. Jozef Drga, PhD.	31.1.2018	0.08
3.	Dr. Krisztián Palotás	31.12.2018	1.00
4.	Dr. Pareshkumar Manharbhai Prajapati	31.12.2018	1.00
5.	Mgr. Tomáš Rybár, PhD.	31.7.2018	0.58
<b>Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)</b>			



1.	Mgr. Dmytro Kostiuk	31.1.2018	0.08
2.	Ing. Daniel Manca	31.8.2018	0.03
3.	Dr.Ing. Marco Enrico Bagio Pelletta	16.7.2018	0.03
<b>Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)</b>			
1.	Prom. knih. Božena Številová	31.1.2018	0.08
<b>Odborní pracovníci ÚSV</b>			
1.	Lubomír Dostál	31.5.2018	0.21

**Zoznam doktorandov**

	<b>Meno s titulmi</b>	<b>Škola/fakulta</b>	<b>Študijný odbor</b>
<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. Katarína Čechová	Fakulta matematiky, fyziky a informatiky UK	4.1.5 jadrová a subjadrová fyzika
5.	Mgr. Mirdit Doda	Fakulta matematiky, fyziky a informatiky UK	4.1.2 všeobecná fyzika a matematická fyzika
6.	Mgr. Jakub Hagara	Fakulta matematiky, fyziky a informatiky UK	4.1.4 kvantová elektronika a optika
7.	Ing. Anna Kálosi	Fakulta elektrotechniky a informatiky STU	5.2.48 fyzikálne inžinierstvo
8.	Mgr. Dušan Kamas	Fakulta matematiky, fyziky a informatiky UK	4.1.5 jadrová a subjadrová fyzika
9.	Mgr. Gulnur Kantay	Fakulta matematiky, fyziky a informatiky UK	4.1.5 jadrová a subjadrová fyzika
10.	Mgr. Jozef Klimo	Fakulta matematiky, fyziky a informatiky UK	4.1.5 jadrová a subjadrová fyzika
11.	Mgr. Jakub Krajňák	Fakulta matematiky, fyziky a informatiky UK	4.1.5 jadrová a subjadrová fyzika
12.	Mgr. Peter Nádaždy	Fakulta matematiky, fyziky a informatiky UK	4.1.4 kvantová elektronika a optika
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.	Ing. Matúš Sedlák	Fakulta matematiky, fyziky a informatiky UK	4.1.5 jadrová a subjadrová fyzika
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.	MSc. Riyas Subair	Fakulta matematiky, fyziky a informatiky UK	4.1.4 kvantová elektronika a optika

19.	Mgr. Rupali Tiwari	Fakulta elektrotechniky a informatiky STU	5.2.48 fyzikálne inžinierstvo
20.	Mgr. Róbert Urban	Fakulta matematiky, fyziky a informatiky UK	4.1.5 jadrová a subjadrová 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: Medziakademická dohoda (MAD)**

##### **1.) Exotické tvary jadier skúmané v prieniku štúdia štruktúry a jadrových reakcií (*Exotic nuclear shapes in the intersection of structure and reaction studies*)**

**Zodpovedný riešiteľ:** Emil Běták  
**Trvanie projektu:** 1.1.2016 / 31.12.2018  
**Evidenčné číslo projektu:**  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 2 - Maďarsko: 2  
**Čerpané financie:** -

##### Dosiahnuté výsledky:

V ostatných dvoch-troch rokoch zintenzívnilo štúdium jadrových reakcií, ktoré sú vhodné produkovať super- a hyperdeformované jadrá  $^{36}\text{Ar}$  pre ďalšie skúmanie. Významnú úlohu tiež zohrala skutočnosť, že superdeformovaný stav je už známy z gama-koincidenčných meraní, a tiež už existuje aj kandidát v reakciách ťažkých iónov. V oblasti ľahkých jadier je  $^{36}\text{Ar}$  jediné jadro, v ktorom sú experimentálne známe super- aj hyperdeformované tvarové izoméry okrem základného stavu.

Dôležitým rysom nášho skúmania je, že ide o systematickú prácu, špecificky, že skúmame všetky reakcie v zrážkach stabilných izotopov, kde počet vedľajších produktov (po alfa-časticu) neprekročí dvoch okrem práve skúmaných jadier. Dôležitú úlohu hrá energetická bilancia, ale zatiaľ najdôležitejšie nové poznatky sú systematická aplikácia štruktúrnych výberových pravidiel. Používame dva komplementárne prístupy, menovite Harveyov prístup spolu s výberovým pravidlom symetrie  $U(3) \times U(4)$ . Obidve tieto metódy sú nutné podmienky a musia byť použité spoločne.

Naše hlavné výsledky:

1. Výberové pravidlá podľa symetrie a Harveyho metódy sú v naprostom súlade.
2. Reakcie s emisiou protónu alebo  $^3\text{He}$  nie sú vhodné na vytvorenie super- alebo hyperdeformovaných jadier.
3. Viaceré reakcie môžu populovať super- aj hyperdeformované stavy (tie hyperdeformované majú menej vhodné Q reakcie).
4. Publikácia v Bulg. J. Phys. a dve prednášky na ISTROS 2017.

##### **2.) Magnetické správanie a doménová štruktúra moderných magneticky mäkkých materiálov (*Magnetic behavior and domain structure of modern soft-magnetic materials*)**

**Zodpovedný riešiteľ:** Beata Butvinová  
**Trvanie projektu:** 1.1.2016 / 31.12.2018  
**Evidenčné číslo projektu:**  
**Organizácia je koordinátorom projektu:** áno

**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** -

Dosiahnuté výsledky:

V projekte sme sa venovali skúmaniu doménovej štruktúry (DŠ) pások pripravených metódou rýchleho ochladenia taveniny. Vyšetrované pásy boli jednovrstvové a aj viacvrstvové s amorfnou štruktúrou a po dodatočnom spracovaní s nanokryštalickou štruktúrou. Pozorovaná DŠ na nespracovaných páskach zodpovedá nameraným magnetickým vlastnostiam u oboch typov pások. Po nanokryštalizácii v Ar atmosfére je DŠ vo všetkých páskach komplikovaná, drobnejšia, zastrená nemagnetickou povrchovou vrstvičkou.

Publikácie: 1 práca v CC (JMMM), 1 práca v zborníku z medzinárodnej konferencie konanej v SR (AIP Conference Proceedings), 1 príspevok na medzinárodnej konferencii v SR.

**Programy: Medzivládna dohoda**

**3.) 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 / 31.12.2020  
**Evidenčné číslo projektu:** 01-3-1114  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Spojený ústav jadrových výskumov v Dubne  
**Počet spoluriešiteľských inštitúcií:** 1 - Rusko: 1  
**Čerpané financie:** SÚJV: 30000 €

Dosiahnuté výsledky:

Bol skúmaný zriedkavý radiačný leptónový rozpad  $B_s \rightarrow l+l-$  ( $l=e,\mu,\tau$ ) so zreteľom na štruktúru závislú amplitúdu a brzdné žiarenie. V rámci vyvinutého kovariantného modelu uväznených kvarkov boli vypočítané form faktory charakterizujúce prechod  $B_s \rightarrow \gamma$  v plnej kinematickej oblasti štvorca dileptónového momentu a prediskutované ich správanie. Pripravili sme analytický vzorec pre rozdelenie diferenciálneho rozpadu a poskytli predikcie pre rozpadové pomery v oboch prípadoch: s príspevkami na dlhé vzdialenosti a bez nich. Tiež sme porovnali naše výsledky s výsledkami získanými v iných prístupoch.

Výsledky boli prezentované na medzinárodných podujatiach a opublikované v Phys. Rev. D.

**4.) 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

**inštitúcií:**

**Čerpané financie:** SÚJV: 26549 €

Dosiahnuté výsledky:

Vytvorenie mezonových jadier je sekundárny jav v jadrovo-jadrových interakciách pri vysokých energiách. Takéto stavy sa tvoria v zbytkových jadrách z primárnych zrážok. Viaceré štúdie ukázali, že zbytkové jadrá sú vo vzбудenom stave. V prípade dostatočne veľkého počtu nukleónov v zbytku sú tieto excitované stavy kolektívneho typu, kedy sa väčšie zoskupenia nukleónov pohybujú korelované. Na popis formovania mezonových jadier je preto nevyhnutné použiť adekvátne kolektívne modely, ktoré môžu signifikantne ovplyvniť proces reakcie. Ukázali sme, že tieto procesy majú rezonančný charakter, a vypočítali sme polohu rezonancií pre viaceré uvažované jadrá. Vypočítané rezonancie boli porovnané s dostupnými experimentálnymi údajmi.

**5.) 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 / 31.12.2020  
**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:** -

Dosiahnuté výsledky:

Boli skúmané fyzikálne procesy, ktoré vplývajú na vytvorenie mezonových jadier z excitovaných jadier – reziduí, ktoré sa zúčastňujú na primárnych interakciách. Bolo zistené, že excitácia jadier-reziduí je kolektívneho charakteru, kedy veľká skupina nukleónov vykazuje korelovaný pohyb už pri primárnej zrážke. Bolo zistené, že kolektívny pohyb má silný vplyv na formovanie mezonového jadra. Taktiež bol zistený rezonančný charakter interakcie. Experimentálne hodnoty rezonancií pre rôzne mezonové jadrá boli analyzované a porovnané.

V rámci Dirac-Hartree-Fock prístupu bola vyvinutá originálna metóda mapovania výmennej časti hustoty energie jadrovej hmoty do formy funkcionálu hustoty. Tento funkcionál bol ďalej upravený do tvaru relativistického modelu stredného poľa s hustotne závislými väzbovými konštantami odražajúcimi Fockovský charakter jadrovej interakcie. Vyvinutý prístup bol následne rozšírený aj na prípad DHF prístupu s nelineárnymi selfinterakciami mezonových polí. Metóda bola aplikovaná na stavovú rovnicu hustej jadrovej hmoty, vrátane stavovej rovnice kompaktných astrofyzikálnych objektov, predovšetkým neutrónových hviezd.

**6.) 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

**inštitúcií:**

**Čerpané financie:** -

Dosiahnuté výsledky:

Významné výsledky boli dosiahnuté v systematickej práci, orientovanej na určenie absolútnych účinných prierezov tvorby výparných reziduí pri reakciách ťažkých iónov  $^{36}\text{Ar}$ ,  $^{40}\text{Ar}$ ,  $^{40}\text{Ca}$  a  $^{48}\text{Ca}$  s jadrami  $^{144}\text{Sm}$ ,  $^{166}\text{Er}$ , a  $^{nat}\text{Sm}$  blízkych uzavretej neutrónovej šupke  $N=126$ . Jadrové reakcie boli realizované pri nízkej excitačnej energii, v oblasti Coulombovskej bariéry.

Veľké úsilie bolo venované príprave experimentov syntézy izotopov supertiažkých prvkov  $^{283}\text{Cn}$ ,  $^{285}\text{Cn}$  a  $^{289}\text{Fl}$ , ktoré je možné syntetizovať v jadrových reakciách  $^{48}\text{Ca} + ^{242}\text{Pu}$  a  $^{244}\text{Pu}$ . S cieľom zvýšiť efektívnosť hmotnostného spektrometra MASHA bola na zväzku ťažkých iónov experimentálne skúmaná vhodnosť použitia nových materiálov z poly-grafénu a z uhlíkových nanotrubiiek vo forme fólií, ako nosného materiálu pre tepelne extrémne namáhané terče Pu jadier.

**7.) 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:** 08626319/1020103-7400000000  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 1 - Rusko: 1  
**Čerpané financie:** SÚJV: 12000 €

Dosiahnuté výsledky:

V rámci projektu sa buduje nový hybridný magnetický spektrometer SCAN-3 na detekciu nabitých a neutálnych častíc produkovaných v stanici vnútorných terčov na Nuklotrone v LVE SÚJV v Dubne. V uplynulom období sme sa venovali najmä vývoju algoritmov offline spracovania digitalizovaných signálov z detektorov SKAN-3 v prostredí systému ROOT. Podstatne sme zdokonalili algoritmus rýchlej detekcie digitalizovaných pulzov z detektorov zavedením rýchleho trigrovania, zlepšenej detekcie tvaru pulzov a ich uchovania spolu s časovou informáciou v Root formáte. Pre umožnenie správneho nastavenia meracej aparatury sme vypracovali a otestovali subsystém monitorovania a kontinuálneho zobrazenia niektorých kritických parametrov zberu, ako napríklad monitorovanie stupňa zaplnenia hardvérových bufrov, dátových tokov na vstupoch a výstupoch zberovej elektroniky, monitorovanie a automatická korekcia niektorých chýb vznikajúcich počas zberu v zberovej elektronike. Systém sme rozšírili o možnosť priameho zápisu dát vo formáte ROOT a zberu a zobrazovania spektier na vzdialených PC v prostredí ROOT.

Vyvinuli sme riadiaci softvér prúdových zdrojov separačných magnetov detektora. Experimentálne dáta získané počas experimentov boli analyzované a budú publikované v časopise NIM A. Výsledky boli prezentované na dvoch prednáškach na medzinárodnej konferencii XXIV International Baldin Seminar on High Energy Physics Problems, Relativistic Nuclear Physics & Quantum Chromodynamics v Dubne a vyjdú v zborníku.

**8.) Study of mechanism of heavy ion induced reactions** (*Study of mechanism of heavy ion induced reactions*)

**Zodpovedný riešiteľ:** Martin Veselský

**Trvanie projektu:** 1.1.2017 / 31.12.2021  
**Evidenčné číslo projektu:** 03-5-11150-2017/2021  
**Organizácia je**  
**koordinátorom projektu:** nie  
**Koordinátor:** Spojený ústav jadrových výskumov  
**Počet spoluriešiteľských**  
**inštitúcií:** 1 - Rusko: 1  
**Čerpané financie:** SÚJV: 30000 €

Dosiahnuté výsledky:

V roku 2018 pokračovalo teoretické štúdium monhonukleónového transferu pri nízkych energiách a výsledky simulácií boli porovnané s experimentálnymi dátami, v rámci príprav na experimentálne štúdium na separátore MASHA, ktoré sa plánuje v blízkej budúcnosti. Pokračovali tiež prípravy na experiment IS581, ktorý je zameraný na štúdium štiepenia neutrónovo ochudobnených zväzkov nestabilných jadier na zariadení HIE-ISOLDE pomocou aktívneho terča ACTAR. Skúšobný experiment so stabilným zväzkom 208Pb bol schválený v LNS Catania. V roku 2018 boli opublikované 2 práce v medzinárodných vedeckých časopisoch.

**Programy: COST**

**9.) Nanoscale Quantum Optics** (*Nanoscale Quantum Optics*)

**Zodpovedný riešiteľ:** Vladimír Bužek  
**Trvanie projektu:** 2.12.2014 / 1.12.2018  
**Evidenčné číslo projektu:** COST Action MP 1403  
**Organizácia je**  
**koordinátorom projektu:** nie  
**Koordinátor:** University of Siegen  
**Počet spoluriešiteľských**  
**inštitúcií:** 4 - Francúzsko: 1, Veľká Británia: 1, Švajčiarsko: 1, Švédsko: 1  
**Čerpané financie:** -  
Podpora medzinárodnej spolupráce z národných zdrojov: 4480 €

Dosiahnuté výsledky:

**10.) Stabilizovaná fotovoltaika ďalšej generácie: objasnenie mechanizmov degradácie organických solárnych článkov komplementárnymi charakterizačnými technikami** (*Stable Next-Generation Photovoltaics: Unravelling Degradation Mechanisms of Organic Solar Cells by Complementary Characterization Techniques*)

**Zodpovedný riešiteľ:** Eva Majková  
**Trvanie projektu:** 1.2.2015 / 31.3.2018  
**Evidenčné číslo projektu:** COST MP 1307  
**Organizácia je**  
**koordinátorom projektu:** áno  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských**  
**inštitúcií:** 0  
**Čerpané financie:** -  
Podpora medzinárodnej spolupráce z národných zdrojov: 1120 €

Dosiahnuté výsledky:

Prezentácia výsledkov na COST workshope 19. – 22. 2. 2018, Barcelona, Španielsko, „Effect of CQDs on the electron transport in PCBM layer“, autori: R. Subair, M. Bodik, V. Nadazdy, M. Benkovicova, P. Siffalovic, M. Jergel, E. Majkova, IP SAS, Slovakia; F. Brunetti, E.Lamanna, A.Di Carlo, Center for Hybrid and Organic Solar Energy (CHOSE), Department of Electronic Engineering, University of Rome Tor Vergata, Rome, Italy.

**11.) 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: 4480 €

Dosiahnuté výsledky:

V roku 2018 sme vypracovali teóriu usporiadania SWCNTs v Langmuirových vrstvách. Vhodnou voľbou interakčného potenciálu medzi SWCNTs sa dá ukazať, že SWCNTs funkcionalizované vhodným surfaktantom sa budú orientovať počas stláčania na povrchu subfázy. Na sledovanie orientácie SWCNTs v reálnom čase sme navrhli metódu merania in-situ pomocou polarizovanej Ramanovej spektroskopie.

**12.) 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: 4480 €

Dosiahnuté výsledky:

Usporiadali sme workshop COST akcie v Bratislave zameraný na makroskopické kvantové javy. Aktívne sme sa podieľali na príprave projektu Quantum Informations Structures in Spacetime.

**Programy: CERN/MŠ**

**13.) CERN - ISOLDE** (*CERN - ISOLDE*)

**Zodpovedný riešiteľ:** Martin Veselský  
**Trvanie projektu:** 1.1.2009 / 31.12.2020



**Evidenčné číslo projektu:** CERN - ISOLDE  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 2 - Švajčiarsko: 1, Slovensko: 1  
**Čerpané financie:** MŠ SR: 2500 €

Dosiahnuté výsledky:

V roku 2018 sme v rámci spolupráce s držiteľkou ERC grantu („Ultrasensitive beta-NMR in liquids“) Dr. Magdalenou Kowalskou (University of Geneva / CERN-ISOLDE) uskutočnili niekoľko pracovných ciest do CERN-ISOLDE, CH. Tieto boli v prvej fáze zamerané na testovanie nových častí experimentálneho zariadenia VITO, kedy sa testovali beta detektory ako aj zapojenie NMR magnetu a diferenciálneho vákuového systému, potrebného v dôsledku použitia prchavých terčov. Vo 4. kvartáli 2018 prebehol experiment „Interaction of Na<sup>+</sup> ions with DNA G-quadruplex structures studied directly with Na beta-NMR spectroscopy“. Úspešne boli premerané NMR spektrá rôznych rozpúšťadiel ako aj troch vzoriek obsahujúcich DNA.

Na testovanie zariadení sa používal stabilný zväzok, pričom samotné merania vzoriek boli uskutočnené rádioaktívnym zväzkom izotopu <sup>26</sup>Na, polarizovaného laserom pomocou tzv. optical pumping. V rámci projektu bol zverejnený jeden článok v CC časopise

**Programy: 7RP**

**14.) Farbivom senzibilizované solárne články na báze pevných perovskitových elektrolytov**  
(*Dye-sensitized solar cell based on perovskite solid-state electrolyte*)

**Zodpovedný riešiteľ:** Eva Majková  
**Trvanie projektu:** 1.9.2016 / 31.8.2018  
**Evidenčné číslo projektu:** KONNECT  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Chung Ang University  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** -  
Podpora medzinárodnej spolupráce z národných zdrojov: 8447 €

Dosiahnuté výsledky:

Boli skúmané vzorky vodivých transparentných elektród pre perovskitové solárne články pripravené na UPO SAV v skupine dr. Omastovej. Použili sme metódu ER-EIS- (energeticky rozlíšená elektrochemická imedančná spektroskopie), ktorá umožňuje mapovanie hustoty stavov v okolí zakázaného pásma organických polovodičov.

**Programy: International Visegrad Found (IVF)**

**15.) Nanofotonika s nanokompozitmi kov-polovodič skupiny IV: Od nanoobjektov k funkčným celkom** (*Nanophotonics with metal – group-IV-semiconductor nanocomposites: From single nanoobjects to functional ensembles*)

**Zodpovedný riešiteľ:** Ivan Štich  
**Trvanie projektu:** 1.10.2015 / 30.9.2018

**Evidenčné číslo projektu:** -  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** -  
Podpora medzinárodnej spolupráce z národných zdrojov: 18750 €

Dosiahnuté výsledky:

Venovali sme sa najmä distribúcií dopantov a atomárnej štruktúre B- a P-kodopovaných Si nanočastíc. Experimenty nášho partnera v Kobe ukazujú, že vonkajšia šupka týchto nanokryštálov je amorfná a jej hrúbka závisí od veľkosti nanočastice a koncentrácie dopantov. Zapodievali sme sa simuláciami týchto systémov metódami DFT molekulárnej dynamiky, t.j. z prvých princípov pre niekoľko modelových nanočastíc rôznej veľkosti a s rôznou koncentráciou dopantov. Tieto výsledky momentálne analyzujeme a výsledky sa pripravujú na publikovanie s našimi spoluautormi v Kobe (prof. Fujii) a Budapešti (prof. Gali).

**Programy: Multilaterálne - iné**

**16.) 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 koordinátorom projektu:** nie  
**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 priebehu r. 2018 sa špecifikovali konkrétne aktivity partnerských inštitúcií projektu a v novembri 2018 sme mali spoločný Workshop organizovaný partnerom z ČR. Na Wokshope sme prezentovali nasledovné výsledky:

- zvládnutie prípravy planárnych invertovaných perovskitových solárnych článkov typu ITO/NiOx/MAPbI3/PCBM/BCP/Ag s účinnosťou do 15%,
- štúdium efektu zabudovania uhlíkových nanobodiek vo vrstve PCBM na účinnosť a stabilitu perovskitových solárnych článkov. Výsledky sú pripravené na publikovanie.

## Programy: Bilaterálne - iné

**17.) Pokročilé nanočasticové senzory plynov s vysokou citlivosťou pre ochranu životného prostredia, zdravotníctvo a detekcie výbušnín** (*Advanced nanoparticle based resistive-optoplasmonic solid state chemical gas sensors with high sensitivity for environment protection, healths improvement and explosive detection*)

**Zodpovedný riešiteľ:** Štefan Luby  
**Trvanie projektu:** 1.1.2016 / 31.12.2018  
**Evidenčné číslo projektu:**  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 1 - Taliansko: 1  
**Čerpané financie:** -

### Dosiahnuté výsledky:

Substráty pre senzory plynov so zapustenými planárnymi elektródami sa zdokonalili tak, aby sa nespojitosť medzi hranou substrátu z amorfneho Si a Au elektródou potlačila na úroveň rozmeru Fe<sub>2</sub>O<sub>3</sub> nanočastíc, tj. okolo 7 nm. Zhrnuli a zhodnotili sa vlastnosti senzorov vodíka a NO<sub>2</sub> na báze niekoľkovrstvového grafénu.

## Programy: ERANET

**18.) Nové magnetické materiály na báze mangánu s výmennou interakciou** (*New Exchange-Coupled Manganese-Based Magnetic Materials*)

**Zodpovedný riešiteľ:** Peter Švec  
**Trvanie projektu:** 1.10.2015 / 30.9.2018  
**Evidenčné číslo projektu:** 291826  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** IMDEA Nanociencia, Madrid  
**Počet spoluriešiteľských inštitúcií:** 2 - Nórsko: 2  
**Čerpané financie:** -  
Podpora medzinárodnej spolupráce z národných zdrojov: 18750 €

### Dosiahnuté výsledky:

Pomocou vyvinutej technológie využívajúcej rýchle ochladenie taveniny sme pripravili zliatinu MnBi so štruktúrou, ktorá vhodným tepelným spracovaním transformovala na požadovanú magneticky tvrdú fázu, preskúmali sme jej štruktúru, magnetické vlastnosti a dlhodobú časovú stabilitu pri izbových teplotách (publikácie v JALCOM, AIP). Oba systémy – AlMn a BiMn sme komplexne preskúmali po štruktúrnej a termodynamickej stránke (poster ISMANAM 2018). Úspešne sme preskúmali možnosti riadenej optimalizácie vlastností tvrdého magnetika AlMn pripraveného atomizáciou plynom v korelácii s atomárnou štruktúrou (publikácia v Acta Materialia). Rozpracovali sme aj prípravu dvojvrstiev s turbulentným rozhraním kombinujúcich magneticky tvrdú štruktúru AlMn premiešanú na submikrónových škálach s magneticky mäkkými fázami na báze Fe-Co-B na dosiahnutie magnetickej výmennej interakcie medzi oboma typmi magnetík vedúcej k zvýšeniu energetického súčinu tvrdého magnetu (pozvaná prednáška – HTMC-16, Jekaterinburg). Pripravili sme aj väčšie množstvo pások AlMn, z ktorých sme

špeciálnym mletím získali kovové vločky s rozmermi vhodnými pre použitie na 3D tlač permanentných magnetov s vysokou odolnosťou voči korózii. Výsledky boli prezentované o.i. v pozvanej plenárnej prednáške (SMMM 18, Wieliczka). Projekt bol vybraný ako jeden z projektov siete M-ERA.NET v oblasti výskumu materiálov pre udržateľné technológie s nízkou uhlíkovou stopu, ktoré dosiahli počas riešenia vynikajúce výsledky (M-ERA.Net Success story 2018, <https://m-era.net/success-stories/new-exchange-coupled-manganese-based-magnetic-materials-next-mag>).

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

<b>Zodpovedný riešiteľ:</b>	Mário Ziman
<b>Trvanie projektu:</b>	1.4.2018 / 30.3.2021
<b>Evidenčné číslo projektu:</b>	
<b>Organizácia je koordinátorom projektu:</b>	nie
<b>Koordinátor:</b>	Centre national de la recherche scientifique
<b>Počet spoluriešiteľských inštitúcií:</b>	0
<b>Čerpané financie:</b>	-
	Podpora medzinárodnej spolupráce z národných zdrojov: 18750 €

##### Dosiahnuté výsledky:

V tomto roku sme sa zamerali na riešenie uchovávaní kvantovej dynamiky v kvantovej pamäti. Navrhli sme optimálny pravdepodobnostný  $N \rightarrow 1$  protokol pre d-rozmerné kvantové systémy. Dva články boli zaslané do časopisov.

#### **Programy: Horizont 2020**

#### **20.) Hybridný integrovaný klaster pre generovanie elektrickej energie vrátane obnoviteľných palív** (*Hybrid Electric Energy Integrated Cluster concerning Renewable Fuels*)

<b>Zodpovedný riešiteľ:</b>	Peter Švec
<b>Trvanie projektu:</b>	1.6.2015 / 30.5.2018
<b>Evidenčné číslo projektu:</b>	665318
<b>Organizácia je koordinátorom projektu:</b>	nie
<b>Koordinátor:</b>	National Technical University of Athens
<b>Počet spoluriešiteľských inštitúcií:</b>	3 - Veľká Británia: 2, Taliansko: 1
<b>Čerpané financie:</b>	H2020: 12855 €
	Podpora medzinárodnej spolupráce z národných zdrojov: 1045 €

##### Dosiahnuté výsledky:

V spolupráci s partnermi sme overili možnosti regenerácie katalyzátora  $\text{Fe}_3\text{O}_4$  s ohľadom na metódu prípravy a podmienky použitej rozkladnej reakcie. Podrobne sme stanovili povrchové a objemové charakteristiky použitých katalyzátorov vzhľadom na vstupné suroviny a proces prípravy. Spolu s hlavným partnerom sme odvodili analytický model reakcie v prítomnosti magnetického a elektrického poľa, výsledky sme prezentovali na záverečnom stretnutí riešiteľov.

**21.) 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:** 0  
**Čerpané financie:** H2020: 129383 €  
Podpora medzinárodnej spolupráce z národných zdrojov: 6272 €

Dosiahnuté výsledky:

Spolupracovali sme na vývoji metodiky záchytu magnetických nanočastíc v riasach pomocou elektropermeácie, metodiky ukotvenia magnetických rias na kultivačných podložkách a na vytvorení lokálne heterogénnej anizotropickej magnetickej kultivačnej podložky. Rozpracovali sme mikroskopickú metodiku štatistického vyhodnotenia úspešnosti záchytu nanočastíc v riasach. Zúčastnili sme sa tiež vývoja separátora magnetických rias s vysokým prietokom pracujúceho v semikontinuálnom režime (publikácia v J. Bioprocess. Biotech.).

**Programy: JRP**

**22.) 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 koordinátorom projektu:** nie  
**Koordinátor:** Ústav experimentálnej fyziky SAV  
**Počet spoluriešiteľských inštitúcií:** 1 - Turecko: 1  
**Čerpané financie:** -  
Podpora medzinárodnej spolupráce z národných zdrojov: 4167 €

Dosiahnuté výsledky:

Spravili sme základnú analýzu vlastností existujúcich amorfných a nanokryštalických magneticky mäkkých systémov s ohľadom na požiadavky projektu, navrhli sme zloženia potenciálnych kandidátov na materiály jadier magnetometrov a torzných tyčí satelitov. Stanovili sme charakteristiky konkrétnych magnetometrov z rýchlochladených materiálov v širšom rozsahu teplôt (IEEE Trans. Mag.). Špeciálne techniky spracovania materiálov sme aplikovali na systém Co-Fe-Nb-B bohatý na Co (abstrakt zaslaný na konferenciu PAMIR 2019).

## 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 koordinátorom projektu:** áno  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 1 - Slovensko: 1  
**Čerpané financie:** VEGA SAV: 9382 €

##### Dosiahnuté výsledky:

Pokračovali sme v príprave predpovedí správania sa elektromagnetických formfaktorov hyperónov a mezónov, a derivácii ich zodpovedajúcich vlastností. Zamerali sme sa na analýzu vysokoenergetických, elastických protón-protónových zrážok s dôrazom na určenie príspevku od elektromagnetickej interakcie. Takýto príspevok bol analyzovaný numerickými metódami. Ďalej sme študovali zriedkavé radiatívne rozpady ťažkých mezónov  $B_s \rightarrow l+l-\gamma$  ( $l=e,\mu,\tau$ ) v rámci ŠM, kde na popis hadrónových efektov používame kovariantný kvarkový model so zabudovaným uväznením kvarkov. Výsledkom sú predpovede priebehu príslušných formfaktorov a predpovede pre hodnoty širok jednotlivých rozpadových kanálov. Tieto tu konfrontované s dostupnými experimentálnymi údajmi.

Hlavné výsledky boli zaslané do dvoch CC časopisov, ostatné budú publikované v zborníkoch 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 organizácii SAV:** Vlastimil Boháč  
**Trvanie projektu:** 1.1.2017 / 31.12.2019  
**Evidenčné číslo projektu:** 2/0192/17  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** VEGA SAV: 2507 €

##### Dosiahnuté výsledky:

V experimentálnej oblasti sme zaviedli novú metodiku pre meranie termofyzikálnych vlastností materiálov, ktoré sú plastické a tekuté. Boli zmerané termofyzikálne vlastnosti plastickej ílovitej hliny a polymérneho tekutého kompozitu na báze nanokarbónových častíc a copolyméru EVA (etylén-vinylacetát v pomere 3:1 vinylacetát:etylén v EVA copolymére). Nájdenej metodika merania

kvapalných látok, postupným znižovaním výkonu umožnila eliminovať zložku vedenia tepla prúdením. Týmto spôsobom sme stanovili energiu impulzu pre vyvolanie transportu tepla prúdením. Kompozit má vysoké hodnoty objemovej tepelnej capacity, čo potvrdzuje jeho použitie ako tepelnej bariéry pri zachytávaní tepelného toku.

Bol pozorovaný pokles hodnôt meraných termofyzikálnych parametrov ílovitej hliny počas vysušovania. Po vysušení hliny a jej stuhnutí boli merania opakované bez kontajnera. Namerané hodnoty dát v suchom stave s kontajnerom a bez neho boli rovnaké, a teda nemá vplyv na meranie. Výsledné data boli použité pri ďalších výpočtoch systému energetických ihliel používaných ako výmenníky tepla pri ukladaní tepla do zemského podlažia tvoreného meranou ílovitou hlinou.

Výstupy boli prezentované vo forme 3 prednášok.

Ďalšou oblasťou bolo vyšetrovanie termofyzikálnych parametrov rôznych kamenných hornín z oblasti Malých Karpát. Vzorky boli vytýpované v spolupráci s Geologickým Ústavom Dionýza Štúra a Geologische Bundesanstalt Austria. Bola nájdená lineárna závislosť termofyzikálnych parametrov voči objemovej hustote kameňov. Dáta budú použité pre výpočet teplotných polí pre sezónne tepelné úložiská. Výsledky budú publikované po dokončení všetkých analýz.

Výstupy boli prezentované vo forme 3 prednášok, jedného recenzovaného príspevku v zborníku abstraktov a recenzovanou prácou v zborníku konferencie publikovaného v AIP (WOS). Prednášky: Thermam Rostock (1x - Boháč), Thermophysics 2018 (2x - Boháč, Tiwari)

Vlastimil BOHÁČ, Peter Dieška: Measurement of liquid polymer composite with ATO particles by pulse and step-wise transient techniques, Book of Abstracts, THERMAM 2018, 7th Rostocker International Conference: "Thermophysical Properties for Technical Thermodynamics" Institute of Technical Thermodynamics, University of Rostock, Rostock, Germany, 26 – 27 July, 2018, Editors: Prof. Dr.-Ing. habil. Dr. h. c. Egon HASSEL, Dr.-Ing. Javid SAFAROV (University of Rostock, GERMANY), Designed: © FVTR GmbH, Rostock, GERMANY. ISBN: 978-3-941554-18-4, p.29

Vlastimil Boháč1, Peter Dieška, Viliam Vretenár, Ján Hudec, Vladimír Lukáč, The transient method measurements of thermophysical properties of non-solid clay loam. AIP Conference Proceedings 1988, 020006 (2018); doi: 10.1063/1.5047600, View online: <https://doi.org/10.1063/1.5047600>, View Table of Contents: <http://aip.scitation.org/toc/apc/1988/1>, Published by the American Institute of Physics. 978-0-7354-1704-5/\$30 p.00020006-1 - 00020006-9

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

<b>Zodpovedný riešiteľ:</b>	Štefan Gmuca
<b>Trvanie projektu:</b>	1.1.2016 / 31.12.2019
<b>Evidenčné číslo projektu:</b>	VEGA 2/0176/16
<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: 6905 €

#### Dosiahnuté výsledky:

Príprava tenkých terčikov v intervale mikrogram/cm<sup>2</sup>-miligram/cm<sup>2</sup> je nevyhnutnou súčasťou

experimentálnych aktivít v jadrovej astrofyzike, jadrových analytických metódach, a v roentgen-fluorescenčnej analýze. Tieto prístupy často využívajú malé elektrostatické urýchľovače buď ako zdroj primárneho zväzku častíc, alebo ako sekundárny zdroj intenzívneho roentgenovského žiarenia. Na prípravu tenkých terčiek z práškových materiálov sme vyvinuli modul využívajúci vibračný pohyb prachových zŕn 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 terčiky z práškového Mn deponované na tenkú Al fóliu. Vlastnosti pripravených terčiek boli študované pomocou XRF mikroskopu. Potvrdili sa očakávané vlastnosti takto pripravených vzoriek. Ukázalo sa, že HIVIPP metóda predstavuje pomerne jednoduchú a lacnú alternatívu na prípravu tenkých terčiek pre IBA a XRF aplikácie.

#### **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 koordinátorom projektu:** áno  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** VEGA SAV: 3335 €

##### Dosiahnuté výsledky:

Skúmali sme hustotu stavov v tme a svetlom indukovaných polarónových stavov v polyméri PFO a kopolyméri PFO-DBT. Zistili sme, že tepelné žihanie pri teplote indukujúcej kvapalnú kryštalickú fázu v pripravených tenkých filmoch, vedie v PFO aj PFO-DBT k zníženiu defektných stavov v zakázanom páse. Pri obidvoch tenkých filmoch bez tepelného žihania bola pozorovaná približne o jeden rád vyššia hustota polarónových stavov. Ďalšie polarónové stavy boli merané pre PFO aj PFO-DBT pod UV LED osvetlením. Pozorovali sme výrazný vplyv chemických a štrukturálnych defektov prítomných v tenkých vrstvách na hustotu polarónových stavov.

Elektrochemickú (ER-EIS) a RTG (GIWAXS) metódu sme použili na analyzovanie vzťahov medzi elektrónovou a molekulárnou štruktúrou v tenkých filmoch P3HT. Výsledky ukazujú, že drsnosť substrátu vyvoláva rôzne štrukturálne defekty a vedie k vzniku polymorfných kryštalických fáz v tenkých filmoch P3HT. V dôsledku toho je hustota stavov v zakázanom páse silne závislá na hrúbke tenkých vrstiev P3HT.

Publikované výsledky: 3 články CC a 1 článok WOS

#### **5.) 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: 12675 €

Dosiahnuté výsledky:

V súlade s harmonogramom projektu sme sa v 1. roku riešenia zamerali na optimalizáciu parametrov nanoobrábania Ge pre prípravu aktívnych povrchov kryštálovej rtg optiky. Pre komplexnú charakterizáciu povrchov sme vypracovali protokoly založené na atómovej silovej mikroskopii, mikro-Ramanovej spektroskopii a konfokálnom Ramanovom zobrazovaní, malouhlovom rtg rozptyle pri šikmom dopade a vysokorozlišovacej rtg difrakcii, doplnenej o transmisnú elektrónovú mikroskopiu. Dosiahli sme lokálnu drsnosť povrchu na úrovni 1 nm a menej a planaritu rádu  $10^{-5}$  pri absencii dislokácií a iných porúch kryštálovej mriežky pod povrchom. Rozpracovali sme metódy finalizácie týchto povrchov s cieľom odstránenie periodickej mriežky na povrchu ako dôsledku deterministického charakteru nanoobrábania, ktoré spôsobuje neželané interferenčné efekty v reciprokom priestore. V súvislosti s teoretickou analýzou parametrov kanálikových rtg monochromátorov sme začali s úpravami programu SKL založenom na dynamickej teórii rtg difrakcie a metóde stopovania zväzku. Boli úspešne vykonané prvé výpočty výstupných parametrov v závislosti od stupňa asymetrie kanálikových difrakcií pre efektívny návrh monochromátorov s cieľovými vlastnosťami.

Výsledky boli publikované v publikácii v 3 CC, 1 ne-CC a v 8 zborníkoch z konferencií.

**6.) Difúzny transport v priestorovo ohraničených štruktúrach** (*Diffusional transport in spatially confined structures*)

**Zodpovedný riešiteľ:** Pavol Kalinay  
**Trvanie projektu:** 1.1.2018 / 31.12.2020  
**Evidenčné číslo projektu:** 2/0008/18  
**Organizácia je** áno  
**koordinátorom projektu:**  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** VEGA SAV: 2002 €

Dosiahnuté výsledky:

Odvodili sme efektívnu 1D transportnú rovnicu pre difundujúcu časticu hnanú nekonzervatívnou silou (napr. hydrodynamickým unášaním) v nehomogénom 2D kanáli, mapovaním príslušnej advekčno-difúznej rovnice. Použitá technika umožňuje taktiež získať unikátny popis Feynmann-Smoluchowského zariadenia (ratchet); jeho činnosť súvisí s vírovým charakterom tokov pravdepodobnosti vo vzniknutom nekonzervatívnom poli. Výsledky sú publikované v dvoch CC časopisoch.

**7.) Monitorovanie tepelno - vlhkostného režimu UNESCO pamiatky kostola sv. Jakuba v Levoči a národnej pamiatky katedrály sv. Martina v Bratislave** (*Monitoring of the hygrothermal regime of the UNESCO object of St Jame's Church in Levoči and national heritage object St Martin's Cathedrale in Bratislava*)

**Zodpovedný riešiteľ:** Peter Matiašovský  
**Zodpovedný riešiteľ v** Ján Hudec

**organizácii SAV:**

**Trvanie projektu:** 1.10.2016 / 31.12.2018  
**Evidenčné číslo projektu:** 2/0105/16  
**Organizácia je** nie  
**koordinátorom projektu:**  
**Koordinátor:** Ústav stavebníctva a architektúry SAV  
**Počet spoluriešiteľských** 0  
**inštitúcií:**  
**Čerpané financie:** -

Dosiahnuté výsledky:

Projekt je ukončený

**8.) 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: 3669 €

Dosiahnuté výsledky:

Boli pripravené viaceré vlákňité materiály, okrem samotnej karbonizovanej delignifikovanej celulózy aj odvodené materiály pripravené prostredníctvom modifikovanej karbonizácie, ako aj následnou chemickou úpravou vlákien. Cieľom bolo zvýšenie, prípadne zníženie špecifického merného povrchu vlákien. Jeho hodnota bola určovaná metódou Ar absorpčných izoteriem (BET). Do súboru charakterizovaných materiálov bol zahrnutý aj kompozitný materiál, ktorý pozostával z uhlíkových vlákien, na povrch ktorých boli nanosené čiastočky aktívnej sustancie (hydratovaný hydroxid železitý) a tiež porovnávacía vzorka vlákien pripravených karbonizáciou xantogenovanej celulózy. Boli študované sorpčné vlastnosti pre viaceré kvapaliny (s rozličnou veľkosťou molekuly) so zvláštnym zreteľom na vodu, významnú z hľadiska perspektív praktického využitia. Výsledky ukazujú, že sorpčné schopnosti skúmaných materiálov nie sú jednoducho úmerné hodnote špecifického merného povrchu, významný vplyv majú aj iné faktory, ktoré súvia s osobitosťami porozity materiálu. Výsledky boli prezentované na medzinár. konferencii ESTAC12 (poster). Pokračovala tiež spolupráca na metodicky a aplikačne súvisiacich analýzach sorpčných vlastností iných poróznych materiálov a kompozitov, výsledky boli publikované v troch CC publikáciách.

**9.) 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 inštitúcií:** 0  
**Čerpané financie:** VEGA SAV: 22900 €

Dosiahnuté výsledky:

Optimalizáciou roztokov a technologického postupu na prípravu štandardných laboratórnych perovskytových článkov sme pripravili slnečný článok v invertovanej planárnej štruktúre (ITO/PEDOT:PSS/MAPbI<sub>3</sub>/PCBM/BCP/Ag) s reprodukovateľnou účinnosťou PCE = 12%. Skúmali sme vplyv uhlíkových nanobodiek (CNDs) pridaných do elektrónovej transportnej vrstvy Phenyl-C61-Butyric Acid Methyl ester-u (PCBM) na parametre perovskytového slnečného článku. Ukázali sme, že zvýšenie účinnosti nad 10% (PCE > 13.2%) bolo dosiahnuté vyššou tvorbou polarónov na CNDs vo vrstve PCBM a zvýšenou vodivosťou tejto vrstvy. Rozpracovali sme teoretický model novej elektrochemickej metódy (Energy Resolved Electrochemical Impedance Spectroscopy - ER-EIS) vyvíjanej v našom laboratóriu. Táto metóda bude v ďalšom riešení projektu využívaná na charakterizáciu elektrónových stavov perovskytových vzoriek.

Výsledky boli publikované v 1 CC časopise a 2 zborníkoch z konferencie.

**10.) Nové stabilizované a štruktúrne usporiadané opticky a fotoelektricky aktívne organické materiály** (*Novel stabilized and structurally ordered optically and photoelectrically active organic materials*)

**Zodpovedný riešiteľ:** Vojtech Nádaždy  
**Trvanie projektu:** 1.1.2015 / 31.12.2018  
**Evidenčné číslo projektu:** 1/0501/15  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Fakulta chemickej a potravinárskej technológie, STU v Bratislave  
**Počet spoluriešiteľských inštitúcií:** 3 - Slovensko: 3  
**Čerpané financie:** VEGA SAV: 1777 €

Dosiahnuté výsledky:

Rozpracovali sme teoretický model novej elektrochemickej metódy (Energy Resolved Electrochemical Impedance Spectroscopy - ER-EIS) vyvíjanej v našom laboratóriu. Na vrstvách P3HT (poly(3-alkylthiofén)) sme ukázali vplyv podložky a hrúbky vrstvy na mikroštruktúru a elektrónovú štruktúru (DOS) polyméru. Vyšetrovali sme vplyv modifikácie polyméru PFO (Poly(9,9-dioctyl-9H-fluorene-2,7-diyl)) na kopolymér PFO-DBT (Poly[2,7-(9,9-dioctylfluorene)-alt-4,7-bis(thiophen-2-yl)benzo-2,1,3-thiadiazole]) a vplyv tepelného spracovania pripravených vrstiev na štruktúru DOS a tvorbu svetlom indukovaných polarónových stavov. V záverečnej etape sme sa venovali charakterizácii štyroch nových nami syntetizovaných polymérov na báze benzénových a tiofénových jadier. Skúmali sme vplyv fluorinácie benzénového jadra a zmenu počtu tiofénov v reťazci na štruktúru DOS a optické vlastnosti. Zistili sme, fluorinácia benzénového jadra vedie k posunu absorpčnej hrany ku kratšej vlnovej dĺžke (z 550 nm ku 450 nm) a zväčšenie počtu tiofénov v reťazci z troch na šesť k posunu absorpčnej hrany zo 600 nm k 670 nm. Merania štruktúry DOS ukázali, že zmeny zakázaného pásu novo syntetizovaných polymérov sa realizujú na strane pásov HOMO.

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

## 11.) Výskum elektrických a optických vlastností nanoštrukturovaných polovodičových rozhraní

**Zodpovedný riešiteľ:** Emil Pinčík  
**Trvanie projektu:** 1.7.2017 / 31.12.2019  
**Evidenčné číslo projektu:** 1/0676/17  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Elektrotechnická fakulta ŽU  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** VEGA SAV: 1777 €

### Dosiahnuté výsledky:

Hlavný výsledok projektu bol vybraný:

- a) výskum a vývoj novej originálnej technológie formovania tzv.čierneho kremíka na n-type Si bez použitia dodatočného osvetlenia;
- b) základné experimentálne výsledky získané na takejto štruktúre najmä optickými a RTG metodikami a pomocou AFM.

## 12.) 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: 1650 €

### Dosiahnuté výsledky:

Medzi hlavné výsledky projektu zaraďujeme vývinutie metodiky experimentálneho výskumu na tenkovrstvových PIN štruktúrach deponovaných na TCO/sklo substráte, ktorá je založená na reflektančnej FTIR spektroskopii. Vzhľadom na interferenčný charakter nasnímaného spektra je možné určiť relatívne presne hrúbky vrstiev, z ktorých pozostáva PIN štruktúra, ako aj ich indexy lomu.

## 13.) Slabá náhodnosť v kvantových protokoloch (*Weak Randomness in Quantum Protocols*)

**Zodpovedný riešiteľ:** Martin Plesch  
**Trvanie projektu:** 1.1.2015 / 31.12.2018  
**Evidenčné číslo projektu:** 2/0043/15  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** VEGA SAV: 3002 €

Dosiahnuté výsledky:

Venovali sme sa problematike straty informácie pri kvantových hrách. Vyšli tri články, jeden v NJP, jeden v Nature Scientific reports a jeden v European Journal of Physics.

**14.) 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** áno  
**koordinátorom projektu:**  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** VEGA SAV: 1650 €

Dosiahnuté výsledky:

Pokračovanie vo vývoji meracieho systému. Rozpracovaný program dekompozície prechodových javov.

Vedenie bakalára, Martina Repku, z FEI, Bratislava, začal v novembri 2018, pracuje na vývoji SW pre merací systém merania elektrických vlastností materiálov.

Publikovanie v CC: <http://www.sciencedirect.com/science/article/pii/S0304885317314397>

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

**Zodpovedný riešiteľ:** Ladislav Šamaj  
**Trvanie projektu:** 1.1.2018 / 31.12.2020  
**Evidenčné číslo projektu:** 2/0003/18  
**Organizácia je** áno  
**koordinátorom projektu:**  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** VEGA SAV: 5004 €

Dosiahnuté výsledky:

Pre systémy nábojov medzi dvomi equivalentne nabitými platňami bola skonštruovaná teória korelačnej diery, ktorá dáva presný popis systému v limitách malých a veľkých interakčných konštánt. Pre dvojrozmerné coulombovské systémy boli odvodené univerzálne korekcie voľnej energie ku konečnému rozmeru vzorky. Výsledky boli publikované v 6 CC publikáciách.

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

**Zodpovedný riešiteľ:** Ondrej Šauša  
**Trvanie projektu:** 1.1.2017 / 31.12.2020  
**Evidenčné číslo projektu:** 2/0157/17  
**Organizácia je** áno  
**koordinátorom projektu:**  
**Koordinátor:** Fyzikálny ústav SAV

**Počet spoluriešiteľských  
inštitúcií:** 0

**Čerpané financie:** VEGA SAV: 3961 €

Dosiahnuté výsledky:

Pri štúdiu kryoprotektívnych vlastností zmesí DMSO s vodou pri malom obsahu DMSO (10%, 2% a 1,8% obj.) sa sledovali voľnoobjemové charakteristiky vybraných zmesí pri nízkych teplotách v objemovom stave aj v kombinácii s ďalšími charakterizačnými technikami ako je DSC a nízkofrekvenčná dielektrická spektroskopia.

Ukázala sa potreba podrobného štúdia procesov prebiehajúcich v skúmaných látkach počas ohrevu, pretože bola zistená hysterézná krivka závislosti lokálneho voľného objemu od teploty pre meracie cykly chladenia a ohrevu, pričom pri ohreve dochádza k tvorbe tesnejšie usporiadanej štruktúry v zmesiach obsahujúcich DMSO, hlavne v oblasti kritického intervalu teplôt 165-205K. Predpokladá sa, že podiel amorfného stavu v objemových kryoprotektívnych zmesiach, ktorý je rozhodujúci pre viabilitu buniek, závisí od rýchlosti ohrevu v uvedenej oblasti teplôt. Toto je podporené experimentom časového priebehu veľkosti lokálneho voľného objemu pri rôznych izotermách.

Zmeral sa lokálny voľný objem čistej vody, DMSO a kryoprotektívneho štandardu (DMSO 10%) v uväznenom stave v regulérnej matici SBA15 v mezopóroch veľkosti 4nm pri teplotách 15-300K. V tomto stave mnohé efekty miznú, dominuje amorfný stav. Pokračuje sa v charakterizácii zmesí s nízkou koncentráciou DMSO (2 a 1,8%) uväznených v matici SBA.

Výsledky boli publikované v 5 CC časopisoch, 1 ne-CC, v 3 knižných príspevkoch a 3 zborníkoch z konferencií.

**17.) 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** áno

**koordinátorom projektu:**

**Koordinátor:** Fyzikálny ústav SAV

**Počet spoluriešiteľských** 1

**inštitúcií:**

**Čerpané financie:** VEGA SAV: 14636 € (+ partnerskej organizácii pridelené 10519 €)

Dosiahnuté výsledky:

V projekte sa intenzívne zapodieваме rôznymi adsorbátmi na a pod povrchom TiO<sub>2</sub> a funkcionalizáciou 2D materiálov vplyvom "strainu". Na tieto posledné obrovské mnohočasticové výpočty (QMC) sme získali 36 miliánov core hours na superpočítaci Mare Nostrum v rámci výzvy PRACE Call 17, Proposal 2018184443. Prevádzame výpočty na strainovaných (compressive and tensile strain) 2D systémoch fosforénu a MoS<sub>2</sub>.

V r. 2018 boli prijaté publikácie do Phys. Rev. X (IF 2017: 14.385), Nanotechnology (IF 2017: 3:404), J. Am. Chem. Soc. (IF 2017: 14.357) a jedna práca bola odoslaná do časopisu s najvyšším impakt faktorom.

**18.) 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: 17509 €

Dosiahnuté výsledky:

Pomocou atomárne-rozlíšenej elektrónovej mikroskopie a chemického mapovania a ďalších metód sme spravili analýzu štruktúry nového typu ultravysokoteplotného karbidu (Hf-Ta-Zr-Nb)C s tzv. vysokoentropickým zložením na mikrónovej, nanometrovej a atomárnej úrovni (publikácia v J. Eur. Ceram. Soc.). Ukázali sme, že všetky analyzované častice majú rovnaké zloženie, štruktúru a sú chemicky homogénne na skúmaných rozmerových škálach.

Ukázali sme, že kombinácia existujúcich známych kryštálových štruktúr YbPdSn (štruktúrny typ hexa.-ZrNiAl) a Yb<sub>2</sub>Pd<sub>2</sub>Sn (typ B2Mo<sub>2</sub>Fe) vedie k novej doposiaľ neznámej triede dodekagonálnych kvázikryštálov. Ak sa podarí takýto kvázikryštál laboratórne pripraviť, očakávame, že známy fenomén fluktuujúcej valencie atómu Yb v kombinácii s kváziperiodickým usporiadaním môže viesť k nízokoteplotnému kvantovo kritickému správaniu (publikácia v Phil. Mag.).

Využitím synchrotrónového žiarenia a elektrónovej mikroskopie a difrakcie sme ukázali, že v systéme HiTPERM existuje priama korelácia medzi atomárnym usporiadaním Fe a Co v nanokryštálických časticiach (supermriežka typu B2) a magnetickými a mechanickými vlastnosťami (publikácia v Mater. Res. Express), ukázali sme, že poznatok má priamy aplikačný význam pre technologické využitie týchto systémov.

Z vybraných magneticky mäkkých amorfných materiálov sme pripravili prstencové jadrá magnetometrov typu flux-gate, optimalizovali sme technológiu prípravy a spracovania týchto jadier pre širokú oblasť pracovných teplôt (publikácia v IEEE Trans. Mag., širší prehľad výsledkov ako spoluautori v pozvanej prednáške na TMS 2018, Phoenix, USA).

Odborné a metodické poznatky získané riešením projektu sme v rámci vedeckej popularizácie prezentovali v časopise orientovanom na videoprotokoly vedeckého výskumu (J. of Visualised Experiments - JoVE). Na základe získaných výsledkov a predošlého výskumu v oblasti prípravy, štúdia a rozvoja metodík skúmania rýchlochladených materiálov sme sa zúčastnili podania viacerých návrhov projektov (VA – DSV, M-ERA.Net), ktoré sú v procese evaluácie.

**19.) Zákonitosti tvorby a termodynamická stabilita štruktúrne komplexných fáz v zliatinách na báze hliníka alebo zinku**

**Zodpovedný riešiteľ:** Peter Švec Jr.  
**Trvanie projektu:** 1.1.2015 / 31.12.2018  
**Evidenčné číslo projektu:** 1/0018/15  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** MTF STU  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** VEGA SAV: 4267 €

Dosiahnuté výsledky:

Preskúmali sme lokálne usporiadanie atómov v rýchlochladených systémoch Al-T-Si (T=Fe, Co, Ni) v roztavenom stave, v amorfnom stave po vitrifikácii taveniny a počas tepelne aktivovanej

devitrifikácie amorfného stavu (publikácia v Materials Characterization). Experimenty boli realizované na sérii zliatin s rôznym obsahom Si a T, paralelne boli použité výpočtové metódy na báze MD a DFT. V zliatine Al<sub>65</sub>Fe<sub>15</sub>Si<sub>20</sub> po rýchlom ochladení a žíhaní nad prvou transformačnou reakciou sme pozorovali chemické usporiadanie na krátku vzdialenosť a tvorbu doteraz nepopísanej fázy, stanovili sme jej základné štruktúrne parametre. Na základe získaných výsledkov a spolupráce s univerzitou TSNU Kyjev v tejto oblasti sme pripravili a podali projekt vo výzve MSCA-IF-EF-ST-2018 zameraný na výskum fázovo separovaných porózných kovových skiel, projekt je v štádiu vyhodnocovania.

**20.) Experimentálne štúdium jadrových reakcií a jadrovej štruktúry s využitím zväzkov z tandemového urýchľovača** (*Experimental investigation of nuclear reactions and nuclear structure using the Tandetron beams*)

**Zodpovedný riešiteľ:** Martin Venhart  
**Zodpovedný riešiteľ v organizácii SAV:** Martin Venhart  
**Trvanie projektu:** 1.1.2017 / 31.12.2019  
**Evidenčné číslo projektu:**  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** VEGA SAV: 18000 €  
 FÚ SAV: 13524 €

Dosiahnuté výsledky:

Bol vybudovaný systém monitorovania toku zväzku. Na zníženie úrovne pozadia bolo vybudované predĺženie iónovodu. Na odtienenie neutrónov bol navrhnuté tienenie na báze ťažkej vody a izotopu lítia-6.

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

**Zodpovedný riešiteľ:** Mário Ziman  
**Trvanie projektu:** 1.1.2017 / 31.12.2019  
**Evidenčné číslo projektu:** 2/0173/17  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** VEGA SAV: 9600 €  
 FÚ SAV: 4161 €

Dosiahnuté výsledky:

Pokračovali sme v prácach na rozlišovaní pamäťových šumoch, kvantovom strojovom učení a kvantových protokoloch vyšších rádov. Pripravili sme ako koordinátori projekty o kvantových kauzálnych štruktúrach v rámci výziev kvantvého flagshipu a quantery. Opublikovali sme 6 článkov.



## Programy: APVV

### 22.) 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:

Zovšeobecnením numerického algoritmu "Higher-Order Tensor Renormalization Group" sme vypočítali základnú energiu pre kvantový Isingov model v trasverzálnom poli na Sierpinského fraktáli. Pozorovali sme spojitý fázový prechod a určili sme dva kritické exponenty. Pomocou rôznych metód, ktoré aproximujú základné stavy systémov ako tenzorový súčin, sme identifikovali fázové prechody na spinových a elektrónových systémoch. Výsledky sú uverejnené v 6 CC publikáciách.

### 23.) 2D materiály iné ako grafén: monovrstvy, heteroštruktúry a hybridné vrstvy (*2D materials beyond graphene: monolayers, heterostructures and hybrids*)

**Zodpovedný riešiteľ:** Martin Hulman  
**Zodpovedný riešiteľ v organizácii SAV:** Peter Šiffalovič  
**Trvanie projektu:** 1.7.2016 / 31.12.2019  
**Evidenčné číslo projektu:** APVV-15-0693  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Elektrotechnický ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** APVV: 16374 €

#### Dosiahnuté výsledky:

U roku 2018 sme sa sústredili na kontrolu orientácie kryštalografickej c-osi MoS<sub>2</sub> vrstiev. Vypracovali sme technológiu, pomocou ktorej môžeme cielene ovplyvniť rast MoS<sub>2</sub> vrstiev pomocou CVD technológie. Jeden z dôležitých výstupov je aj rast MoS<sub>2</sub> na nanokryštalickom diamante. Výsledky boli publikované v časopise Scientific Reports.

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

**Zodpovedný riešiteľ:** Ján Ivančo  
**Trvanie projektu:** 1.7.2015 / 28.6.2019  
**Evidenčné číslo projektu:** APVV-14-0891

**Organizácia je** áno  
**koordinátorom projektu:**  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských** 0  
**inštitúcií:**  
**Čerpané financie:** APVV: 36880 €

Dosiahnuté výsledky:

Skúmali sme odozvu  $\text{Al}_2\text{O}_3$  na stopové koncentrácie acetónových pár. Vyžíhanie  $\text{Al}_2\text{O}_3$  má za následok dočasné zvýšenie vodivosti, pričom  $\text{Al}_2\text{O}_3$  v tomto stave je citlivý na acetónové pary aj pri izbovej teplote, a to na rozdiel od klasických polovodičov na báze oxidov kovov používaných pre chemirezistorové senzory acetónových pár. Navrhli sme mechanizmus odozvy spočívajúci v zmene koncentrácie sodíkových iónov v povrchovej oblasti  $\text{Al}_2\text{O}_3$ .

Zmenou typu a veľkosti molekulárneho surfaktantu naviazaného na nanočastice oxidu železa sme menili medzičasticovú vzdialenosť v usporiadaných nanočasticových vrstvách. Pre nanočastice s veľkosťou asi 6.3 nm sme pre rôzne surfaktanty dosiahli zmenu medzičasticovej vzdialenosti z 7.1 nm na asi 17.5 nm, čo odpovedá asi 4-násobnému zvýšeniu šírky medzery medzi nanočasticami. Šírka medzery má zásadný vplyv na elektrickú vodivosť nanočasticovej vrstvy určenú tunelovacím mechanizmom.

Výsledky boli publikované v 2 CC a 1 WoS časopisoch a 4 zborníkoch z konferencie.

**25.) 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*)

**Zodpovedný riešiteľ:** Eva Majková  
**Trvanie projektu:** 1.7.2015 / 30.6.2018  
**Evidenčné číslo projektu:** APVV-14-0745  
**Organizácia je** áno  
**koordinátorom projektu:**  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských** 0  
**inštitúcií:**  
**Čerpané financie:** APVV: 37500 €

Dosiahnuté výsledky:

Po odladení technológie nanoobrábania a finalizácie povrchov Ge pre rtg kryštálovú optiku na otvorených povrchoch sme sa zamerali na jej aplikáciu pri príprave kanálikových monochromátorov. V prvom kroku sme sa vykonali sériu teoretických výpočtov a optimalizáciu výstupných parametrov monochromátora (tok fotónov, celková intenzita, divergencia, spektrálna krivka ap.) v závislosti od uhlov asymetrie kanálikových difrakcií. Výpočty boli robené metódou ray tracing na základe dynamickej teórie rtg difrakcie, pričom boli započítané reálne parametre mikrofokusného rtg zdroja so vstavanou optikou. Tento komplexný prístup umožnil detailnú analýzu fungovania rtg kanálikových monochromátorov vychádzajúcu zo základných fyzikálnych princípov a cieľený návrh monochromátorov s požadovanými vlastnosťami. Navrhli sme monochromátor optimalizovaný na tok fotónov na pixel detektora a monochromátor optimalizovaný na potlačenie Kalfa2 zložky žiarenia. Na ich prípravu v súčasnosti aplikujeme novovyvinutú technológiu nanoobrábania a začíname testovanie ich využitia pre kolimáciu rtg zväzku v experimentoch malouhlového rtg rozptylu s cieľom kritického porovnania s inými kolimačnými metódami.

Výsledky boli publikované v 4 CC časopisoch, 1 ne-CC, a 8 konferenčných príspevkoch.

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

**Zodpovedný riešiteľ:** Nad'a Mrk'vková  
**Trvanie projektu:** 1.7.2018 / 30.6.2022  
**Evidenčné číslo projektu:** APVV-17-0352  
**Organizácia je** áno  
**koordinátorom projektu:**  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** APVV: 5384 €

Dosiahnuté výsledky:

Dosiahnuté výsledky v roku 2018: 1 poster na konferencii ElecMol (Paríž): Control of molecular orientation in diindenoperylene.

Študovali sme rôzne orientácie molekúl DIPu, ktoré boli spôsobené výhradne hrúbkou vrstvy MoS<sub>2</sub> (3nm a 9nm MoS<sub>2</sub>), na ktorú boli molekuly deponované.

**27.) 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** nie  
**koordinátorom projektu:**  
**Koordinátor:** Ústav polymérov SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** APVV: 12474 €

Dosiahnuté výsledky:

V tomto roku sme študovali interakciu biokonjugovaných GO platforiem s protilátkou M75. Takto pripravené GO platformy majú preferenčnú afinitu k rakovinovým bunkám, ktoré exprimujú CA IX membránový proteín. Prvé výsledky získané konfokálnym rastrovacím fluorescenčným ako aj Ramanovým mikroskopom potvrdzujú selektívny záchyt biokonjugovaných GO platforiem rakovinovými bunkami. Detekcia nefunkcionalizovaných GO platforiem v bunkách bola publikovaná v žurnále Analyst.

**28.) 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** áno

**koordinátorom projektu:**

**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 4 - Česko: 1, Nemecko: 1, Japonsko: 1, Holandsko: 1  
**Čerpané financie:** APVV: 32246 €

Dosiahnuté výsledky:

V uplynulom roku bol ako hlavný výsledok dosiahnuté experimentálne potvrdenie:

- a) tzv. modrého posuvu celého fotoluminiscenčného spektra s klesajúcou teplotou vzorky čierneho p-typ Si pripraveného za pomoci katalyzátora; tento jav dávame to do súvisu najmä so zmenou šírky zakázaného pásu nanokryštalického Si z ktorého pozostáva povrchová oblasť vzorky;
- b) slabého tzv. červeného posuvu celého fotoluminiscenčného spektra s klesajúcou teplotou vzorky klasicky elektrochemicky pripraveného porézneho p-typ Si; tento jav vzťahujeme k faktu, že luminiscenčný signál pochádza najmä z komplexov SiOxHy pokrývajúcich povrch vzorky.

**29.) 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: 15993 €

Dosiahnuté výsledky:

V roku 2018 sme študovali rast tenkých uhlíkových vrstiev na diamantových povrchoch. Primárnym výsledkom bola zistenie, že tenké uhlíkové vrstvy rastú rovinami (100) paralelne s povrchom diamantových kryštálov. Orientácia uhlíkových vrstiev bola overená ex-situ RTG difrakčnými meraniami pod malým uhlom dopadu (GIWAXS).

**30.) Ekonomická príprava práškoveho hydridu horčíka z roztaveného horčíka** (*Efficient preparation of powdered magnesium hydrid directly from the magnesium melt*)

**Zodpovedný riešiteľ:** František Šimančík  
**Zodpovedný riešiteľ v organizácii SAV:** Peter Švec  
**Trvanie projektu:** 1.7.2015 / 30.6.2018  
**Evidenčné číslo projektu:** APVV-14-0934  
**Organizácia je koordinátorom projektu:** nie  
**Koordinátor:** Ústav materiálov a mechaniky strojov SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** APVV: 17000 €

Dosiahnuté výsledky:

Na vzorkách čistého Mg a hypoeutektických zliatin Mg-X pripravených rýchlym ochladením taveniny sme preskúmali štruktúru zŕn a medzizrnových rozhraní a ich vývoj s teplotou. Ukázali sme význam legujúceho prvku na znižovanie rozmerov zŕn a stabilitu ich rozmerov s teplotou. Zatiaľ čo štruktúra rýchlochladeného čistého Mg zostáva nanokryštalická do 130 oC, prídanie použitých legujúcich prvkov zvyšuje stabilitu nanoštruktúry nad 300 oC (publikácia v AIP Conf. Proc.). Najvhodnejšou zo zliatin sa z hľadiska stability ukázala Mg89Sn11. Na overenie možnosti hydrogenácie zliatin na báze Mg sme zostavili malý prenosný experimentálny vodíkový reaktor pracujúci do 350 oC a pretlaku vodíka do cca 0.5 MPa. Experimenty ukázali, že je potrebné zvýšenie parametrov reaktora (najmä tlaku H<sub>2</sub>) a zamedzenie oxidácie vzoriek pred reakciou na dostatočné naplnenie štruktúry Mg zŕn vodíkom.

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

<b>Zodpovedný riešiteľ:</b>	Ondrej Šauša
<b>Trvanie projektu:</b>	1.7.2017 / 30.6.2021
<b>Evidenčné číslo projektu:</b>	APVV-16-0369
<b>Organizácia je koordinátorom projektu:</b>	áno
<b>Koordinátor:</b>	Fyzikálny ústav SAV
<b>Počet spoluriešiteľských inštitúcií:</b>	0
<b>Čerpané financie:</b>	APVV: 37152 €

Dosiahnuté výsledky:

Skúmali sa teplotné a voľnoobjemové vlastnosti nízkomolekulových látok a vody v objemovom ako aj uväznenom stave v anorganických matriciach s pórmi pravidelnej geometrie (SBA-15) pomocou pozitronovej anihilačnej spektroskopie v kombinácii s ďalšími metódami ako ESR, DSC, TGA. Pri štúdiu vplyvu chemizmu na vnútornom povrchu matric sa ako modelové uväzňujúce médium použil nepolárny alkán n-undekán a ako matrica s polárnym povrchom Silikagel 100A a s čiastočne redukovanou koncentráciou –OH skupín, modifikovaná matrica Silikagel 100A-C4. Sledoval sa vplyv takýchto matric na zmeny vlastností uväzneného materiálu ako aj na správanie sa testovacích sond (molekulová TEMPO a atomárna sonda pozitronium) v takomto prostredí. V prípade meraní dĺžky života sa ukázali väčšie voľné objemy v nízкотеплотnej oblasti (pod T<sub>g</sub>) pre uväznenie v modifikovanej matrici. Ide o menej upakovanú štruktúru v póroch v dôsledku zvýšenej nehomogenity povrchu matrice krátkymi nepolárnymi reťazcami namiesto –OH skupín.

Skúmali sa voľnoobjemové vlastnosti bulkovej aj uväznenej vody v SBA15 matrici a vplyv vybraných nízkych koncentrácií DMSO, dôležitých z hľadiska kryoprotektivity, na priebeh tuhnutia a topenia .

Podiel amorfného stavu v objemových vzorkách takýchto zmesí sa mení v závislosti od rýchlosti ohrevu. Komplikovanejšie priebehy topenia a tuhnutia prebiehajú v uväznenom stave, kde dominuje amorfná frakcia.

Výsledky boli publikované v 2 CC časopisoch a v jednom knižnom príspevku.

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

<b>Zodpovedný riešiteľ:</b>	Peter Šiffalovič
<b>Trvanie projektu:</b>	1.10.2018 / 30.9.2021

**Evidenčné číslo projektu:** SK-CN-RD-18-0006  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** APVV: 35845 €

Dosiahnuté výsledky:

V roku 2018 sme uskutočnili prvé in-situ RTG rozptylové (GIWAXS) merania kyštalizácie perovskitov na báze DMF + DMSO + PbI<sub>2</sub> + MAI. Na základe meraní sme určili aktivačnú energiu kryštalizácie perovskitov. Spoločné výsledky s Čínskym partnerom boli publikované v Journal of Materials Chemistry A.

**33.) Inovatívna MoS<sub>2</sub> platforma pre diagnózu a cieleňú liečbu rakoviny** (*Smart MoS<sub>2</sub> 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 koordinátorom projektu:** áno  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** APVV: 12779 €

Dosiahnuté výsledky:

V roku 2018 s úspešne biokonjugovali MoS<sub>2</sub> nanoplatformy pomocou biotín-avidínového mostu. Konkrétne MoS<sub>2</sub> nanoplatformy boli najprv funkcionalizované komplexom biotín-PEG-LA (kyselina lipoová), následne boli konjugované s biotinylovanou protilátkou M75 za prítomnosti avidínu. Takto pripravené platformy boli testované konfokálnou fluorescenčnou a Ramanou mikroskopiou vzhľadom na selektivitu voči rakovinovým bunkám. Prvé výsledky nasvedčujú selektívnemu vychytávaniu MoS<sub>2</sub> nanoplatforiem preferenčne rakovinovými bunkami.

**34.) 2D-materiály a ich funkcionalizácia** (*2D materials and their functionality*)

**Zodpovedný riešiteľ:** Ivan Štich  
**Trvanie projektu:** 7.1.2016 / 31.12.2019  
**Evidenčné číslo projektu:** APVV-15-0759  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** APVV: 58036 €

Dosiahnuté výsledky:

V r. 2018 bola prijaté práce do Phys. Rev. X (IF 2017: 14.385), Nanotechnology (IF 2017: 3:404), J. Am. Chem. Soc. (IF 2017: 14.357).

V projekte sme sa intenzívne začali zaoberať funkcionalizáciou 2D materiálov vplyvom „strainu“. Na tieto obrovské mnohočasticové výpočty (QMC) sme získali 36 miliánov core hours na

superpočítaci Mare Nostrum v rámci výzvy PRACE Call 17, Proposal 2018184443. Prevádzame výpočty na strainovaných (compressive and tensile strain) 2D systémoch fosforénu a MoS<sub>2</sub>.

V r. 2018 sa tiež zmenil vedúci projektu, ktorým sa od 16. 10. stal Mgr. Ján Brndiar, PhD.

**35.) 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 koordinátorom projektu:** nie  
**Koordinátor:** Medzinárodné laserové centrum  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** APVV: 7005 €

Dosiahnuté výsledky:

Úlohou FÚ SAV v tomto projekte aplikovaného výskumu je najmä podpora projektu formou počítačových simulácií. V r. 2018 sme pokračovali v TD DFT výpočtoch vybraných systémov izolovaných monomérov vo vákuu a v prostredí vybraných solventov v C-PCM modeli. Modelovali sme vibračné spektrá a optickú aktivitu: IR a Ramanovske spektrá pre izolované molekuly, ako referenčná analýza módov a ich typov pre merane IR vzoriek lignínov. Elektronová štruktúra izolovaných molekúl HOMO-LUMO odhad z Kohn-Sham spektra. Fluorescencie energie z TD-DFT optimalizácie molekúl monomérov v excitovaných stavoch.

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

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

Dosiahnuté výsledky:

Popri širokej škále skúmania komplexných, najmä rýchlochladených, amorfných, nanokryštalických a kvázikryštalických systémov najmä na báze Al (pozvaná prednáška – ECMetAC Days, Poznan, spoluautor) a Mg, nanoporóznych monoatomárnych štruktúr Au a Cu a montmorilonitových systémov (publikácia v J. Therm. Anal. Calorim.) sme sa zamerali na využitie technológie prípravy viacvrstvových materiálov rýchlym ochladením. Ukázali sme niektoré výhody viacvrstvových magneticky mäkkých materiálov oproti ich jednovrstvovým formám (publikácia v J. Magn. Magn. Mat., pozvaná prednáška FINEMET 30, Sendai, spoluautori) pre prípady vrstiev s rovnakým chemickým zložením. Podobné štúdie sme spravili aj pre kombinácie rôznych chemických zložení vrstiev (publikácie AIP Conf. Proc., J. Alloys Compounds, plenárna prednáška

– ICAMP-9, Shenyang, pozvaná prednáška – IcAUMS 2018, Korea, spoluautori) vedúcich k unikátnym štruktúrnym efektom a magnetickým vlastnostiam výhodným pre využitie v senzorike (pozvaná prednáška – THERMEC 2018, Paris, spoluautori).

Intenzívne sme sa venovali aj príprave a skúmaniu štruktúry magneticky tvrdých fáz AlMn a BiMn a ich dlhodobej stability a vlastnostiam v závislosti od lokálnej štruktúry a spôsobu spracovania (publikácie Acta Materialia, AIP Conf. Proc.).

Na základe získaných výsledkov a predošlého výskumu v oblasti prípravy, štúdia a rozvoja metodík skúmania a spracovania rýchlochladených materiálov, najmä in-situ difrakčných a elektrónomikroskopických metód, sme sa zúčastnili podania dvoch návrhov projektov (Stimuli, VA - kapacity).

**37.) 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 koordinátorom projektu:** nie  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** APVV: 18430 €

Dosiahnuté výsledky:

S využitím pokročilých experimentálnych metód sme charakterizovali fázy a študované transformácie medzi nimi v Heuslerovej zliatine typu Co<sub>2</sub>FeAl (publikácia AIP Advances) a zliatine Al-Fe-Ti (publikácia J. Magn. Magn. Mat.). Získané poznatky prispeli nielen k obohateniu stavu poznania, ale niektoré sú cenné aj z metodického resp. aplikačného hľadiska.

Pomocou ab-initio výpočtov sme objasnili mechanizmus katalytických prejavov nanoporéznej medi aj nanoporézneho zlata. Oba systémy majú rovnakú kryštálovú mriežku (fcc) a počas ich elektrochemickej prípravy sa na obnaženom povrchu nanoporéznych vzoriek objavujú husté kolónie dvojčat. Výsledky ab-initio výpočtov pre oba študované systémy potvrdili, že spomínané kolónie dvojčat sú príčinou pozitívneho katalytického účinku, tzv. efektu hraníc dvojčat. (publikácie Inorganic Chemistry a Applied Catalysis A).

**38.) 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: 24991 €

Dosiahnuté výsledky:

Pomocou rýchleho ochladenia tavenín fluoridových solí  $(\text{LiF}-\text{CaF}_2)\text{-xLaF}_3$  sme na základe detailnej kinetickej a štruktúrnej analýzy (publikácia v New J. of Chemistry) ukázali, že hoci dosahované rýchlosti ochladzovania nepostačujú na vytvorenie amorfného stavu v tomto systéme, vzniká v ňom metastabilná fáza  $\text{Ca-La-F}$  so štruktúrou typu plošne centrovaného  $\text{Ca}_{0.65}\text{La}_{0.35}\text{F}_{2.35}$ . Rozmery jej elementárnej bunky sú silne závislé od rýchlosti ochladzovania a východiskového zloženia. Fáza sa pri zvýšených teplotách rozpadá na  $\text{CaF}_2$  a  $\text{LaF}_3$ , čo naznačuje, že použitá metóda prípravy vedie k odchýlke od termodynamickej rovnováhy takéhoto eutektického systému a dáva možnosť vzniku zdanlivo nových nerovnovážnych fáz s novými vlastnosťami. Poznatok sme využili pri príprave skúmania vzťahu nerovnovážneho stavu vybraných borosilikátových skiel s ich vlastnosťami významnými pre ich možné využitie ako efektívnejšie konštrukčné materiály na ochranu zásobníkov jadrového paliva.

**39.) 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: 7300 €

Dosiahnuté výsledky:

V roku 2018 sme študovali nanotribologické vlastnosti  $\text{MoS}_2$  filmov s rozličnou orientáciou c kryštalografickej osi. Pomocou LFM (lateral force microscopy) sme identifikovali rozdiel v mechanickom trení na nanoškále v závislosti od orientácie c-osi voči normále vzorky. Tieto výsledky boli podporené makroskopickými meraniami povrchovej energie. Uvedené výsledky sú dôležité z hľadiska depozície tenkých lubrikačných vrstiev pre vysokoteplotné aplikácie v ultra-vysokom vákuu (UHV).

**40.) 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: 59312 €

Dosiahnuté výsledky:

Tandetronové laboratórium bolo naďalej rozvíjané. Boli vykonané online testy plynového terča pre

produkciu neutrónov. Publikovaných bolo 7 článkov, z toho 1 v Phys. Rev. Lett., t.j. časopis zaradený do Nature Index.

#### 41.) 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: 36295 €

##### Dosiahnuté výsledky:

V [1] sme študovali frustration-free variantu QCMA-úplného problému ground-state connectivity pre systém veľkosti  $n$  a s dôkazmi superlineárnej veľkosti. Ukázali sme, že dôkazy vieme skrátiť v QMA(2): existujú dvojkópiový nepreviazaný dôkaz s dĺžkou  $n$  (až na log faktory), pre ktorý je CS medzera inverzným polynómom v  $n$ . Práca [2] je súborom výsledkov o konštrukcii hodín vo Feynmanovom výpočtovom modeli a Kitaevovom probléme lokálnych Hamiltoniánov. Článok [3] je prehľadom algoritmov tenzorových sietí - CTMRG a HOTRG. Príklady použitia analyzujú: nový temodynamický model spoločenského ovplyvňovania, analýzu voľnej energie na klasifikáciu fázových prechodov v nekonečnej množine negatívne zakrivených geometrií, a unikátny algoritmus na analýzu fázových prechodov v systémoch s fraktálnou dimenziou. V práci [4] sme zistili, že nenulové hodnoty obsusedných interakcií v Isingovom modeli formujú nové kvantové stavy ako dôsledok súťaže medzi jednotlivými interakčnými členmi. Tieto stavy vykazujú nové magnetické vlastnosti s rôznymi typmi fázových prechodov. Kompatibilitnosť nebalansovaných meraní a Pauliho šumov pre jeden kvantový bit je analyzovaná a kvantifikovaná v článku [5].

- [1] Libor Caha, Daniel Nagaj, Martin Schwarz, Shorter unentangled proofs for ground state connectivity, Quantum Inf. Processing 17, 174 (2018)
- [2] Libor Caha, Zeph Landau, and Daniel Nagaj, Clocks in Feynman's computer and Kitaev's local Hamiltonian: Bias, gaps, idling, and pulse tuning, Phys. Rev. A 97, 062306 (2018)
- [3] Jozef Genzor, Tomotoshi Nishino, Andrej Gendiar, Tensor networks: Phase transition phenomena on hyperbolic and fractal geometries, Acta Physica Slovaca 67, No.2, 85 – 206 (2017)
- [4] Hana Čenčariková, Jozef Strečka, Andrej Gendiar, Natália Tomašovičová, The influence of further-neighbor spin-spin interaction on a ground state of 2D coupled spin-electron model in a magnetic field, Physica B: Condensed Matter 536, 432-438 (2018)
- [5] Teiko Heinosaari, Daniel Reitzner, Tomáš Rybár, and Mário Ziman, Incompatibility of unbiased qubit observables and Pauli channels, Phys. Rev. A 97, 022112 (2018)

#### Programy: Iné projekty

#### 42.) 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 inštitúcií:** 0  
**Čerpané financie:** -

Dosiahnuté výsledky:

Spravili sme prvé merania magnetoimpedancie na vzorkách rýchlochladených pások typu Fe-Cu-Si-Nb-B pozostávajúcich z jednej, dvoch a troch vrstiev (variácia hrúbky vzoriek s počtom vrstiev). Ukázali sme, že jav magnetoimpedancie je vo vybraných pásmach frekvencií závislý od hrúbky vzoriek (abstrakt zaslaný na konferenciu PAMIR 2019).

**Programy: SASPRO**

**43.) Lokálne hamiltoniány v kvantovej zložitosti** (*Local hamiltonians in quantum complexity*)

**Zodpovedný riešiteľ:** Daniel Nagaj  
**Trvanie projektu:** 1.9.2015 / 1.9.2018  
**Evidenčné číslo projektu:** 1250/02/01  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** SASPRO SAV: 43122 €

Dosiahnuté výsledky:

Libor Caha, Zeph Landau, Daniel Nagaj, The Feynman-Kitaev computer's clock: bias, gaps, idling and pulse tuning, Physical Review A, Vol. 97, No. 6, 062306 (2018)

Libor Caha, Daniel Nagaj, Martin Schwarz, Shorter unentangled proofs for Ground State Connectivity, Quantum Information Processing 17: 174 (2018)

**44.) Vývoj prostriedkov na simuláciu transportu spinu v rastrovacej tunelovej mikroskopii** (*Development of Scanning Tunneling Microscopy Simulation Tools for Spin Transport*)

**Zodpovedný riešiteľ:** Krisztián Palotás  
**Trvanie projektu:** 1.1.2016 / 31.12.2018  
**Evidenčné číslo projektu:** 1239/02/01  
**Organizácia je koordinátorom projektu:** áno  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských inštitúcií:** 0  
**Čerpané financie:** SASPRO SAV: 23769 €

Dosiahnuté výsledky:

Predĺženie projektu umožnilo prehĺbenie spolupráce s hosťiteľskou skupinou na FÚ SAV a prispelo k úspešnému dokončeniu spoločnej práce. Výskum sa zameriaval na mikroskopiu na subatomárnej úrovni, najmä rastrovaciu tunelovú mikroskopiu (STM). Na druhej strane bol naplnený vývoj novej metódy atomárnej spinovej dynamiky, ktorá umožňuje teoretické skúmanie spinovej dynamiky komplexných magnetických povrchov za prítomnosti lokálneho spin-polarizovaného tunelovacieho prúdu a súčasne vyvíjaného krútiaceho točivého momentu hrotom rastrovacieho tunelového mikroskopu.

Počas predĺženého obdobia projektu bolo publikovaných 9 článkov v časopisoch a 1 článok bol akceptovaný (celkový IF: 53,8; 2 články v časopise s IF > 10: Nature Communications, Science Advances, celkové nezávislé citácie: 8); 1 predložený článok (Nanoscale); 1 kapitola v odbornej knihe. Okrem toho bolo prednesených: 7 pozvaných prednášok, 3 príspevkové prednášky a 5 ďalších konferenčných príspevkov.

**45.) Monoenergetické rýchle neutróny – výkonný nástroj pre jadrové a materiálové štúdie**  
(*Monoenergetic fast neutrons: Powerful tool for nuclear and material studies*)

**Zodpovedný riešiteľ:** Pareshkumar Manharbhai Prajapati  
**Trvanie projektu:** 16.3.2015 / 16.3.2018  
**Evidenčné číslo projektu:** 0098/01/01  
**Organizácia je** áno  
**koordinátorom projektu:**  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských** 0  
**inštitúcií:**  
**Čerpané financie:** SASPRO SAV: 24535 €

Dosiahnuté výsledky:

Laboratórium akceleratorov v Piešťanoch inauguroval prof. Pavol Šajgalík, predseda SAV dňa 24. 05.2018. Séria experimentov bola vykonaná s 2 MV zariadením po oficiálnej inaugurácii. Energetická kalibrácia tandetrónu sa uskutočňovala za použitia známych rezonancií  $^{27}\text{Al}$  (p, g)  $^{28}\text{Mg}$  reakcie. Počas posledných ôsmich mesiacov bol iontový zdroj tandetrónu prepínaný z hélia na vodík a naopak. Tandetrón bol po prvom uvedení do prevádzky úspešne prevádzkovaný aj s deutériovým lúčom s intenzitou lúča +2,19 mikroAmp.

Nové príruby boli vyrobené pre plynové terče pomocou ultra tenkej kovovej fólie Inconel 625 a nerezovej ocele AISI 347. Vákuová skúška na uvedených prírubách bola úspešná, udržala pretlak 1,2 bar. Ďalej bola vykonaná konečná analýza implantovaných neónových terčov ( $^{20}\text{Ne}$  a  $^{22}\text{Ne}$ ).

**46.) Quantum Walks and Incompatibility** (*Quantum Walks and Incompatibility*)

**Zodpovedný riešiteľ:** Daniel Reitzner  
**Trvanie projektu:** 7.4.2015 / 6.4.2018  
**Evidenčné číslo projektu:** 0055/01/01  
**Organizácia je** áno  
**koordinátorom projektu:**  
**Koordinátor:** Fyzikálny ústav SAV  
**Počet spoluriešiteľských** 0  
**inštitúcií:**  
**Čerpané financie:** SASPRO SAV: 30624 €

Dosiahnuté výsledky:

Tento rok sa nám podarilo zakončiť výskum v oblasti dekoherencie v kvantových vyhľadávaniach [2] a dosiahnuť pokrok v oblasti kvantovej nekompatibility, kde sme publikovali článok odhaľujúci podmienky kompatibility kvantových meraní a Pauliho kanálov [1].

[1] Teiko Heinosaari, Daniel Reitzner, Tomáš Rybár, Mário Ziman: Incompatibility of unbiased qubit observables and Pauli channels, Phys. Rev. A 97, 022112 (2018)

[2] Daniel Reitzner, Mark Hillery: Grover Search under Localized Dephasing, accepted in PRA

**Príloha C****Publikačná činnosť organizácie (generovaná z ARL)****ADCA Vedecké práce v zahraničných karentovaných časopisoch – impaktovaných**

- ADCA01 ADAMCZEWSKI-MUSCH, J. - ARNOLD, O. - BEHNKE, C. - BELOUNNAS, A. - BELYAEV, A. - FILIP, Peter - HLAVÁČ, Stanislav. Centrality determination of Au + Au collisions at 1.23A GeV with HADES. In European Physical Journal A, 2018, vol. 54, no. 5, p. 85. (2.799 - IF2017). (2018 - Current Contents). ISSN 1434-6001.
- ADCA02 ADAMCZEWSKI-MUSCH, J. - AGAKISHIEV, G. - ARNOLD, O. - ATOMSSA, E.T. - BEHNKE, E. - HLAVÁČ, Stanislav. Sigma(0) production in proton nucleus collisions near threshold. In Physics Letters B, 2018, vol. 781, no. 10, p. 735 - 740. (4.254 - IF2017). (2018 - Current Contents). ISSN 0370-2693.
- ADCA03 ADAMCZEWSKI-MUSCH, J. - ARNOLD, O. - BEHNKE, C. - BELOUNNAS, A. - BELYAEV, A. - FILIP, Peter - HLAVÁČ, Stanislav. Deep sub-threshold phi production in Au plus Au collisions. In Physics Letters B, 2018, vol. 778, p. 403-407. (4.254 - IF2017). (2018 - Current Contents). ISSN 0370-2693.
- ADCA04 ADAMCZYK, L. - ADAMS, J.R. - ADKINS, J.K. - AGAKISHIEV, G. - AGGARWAL, M.M. - FILIP, Peter. Transverse spin-dependent azimuthal correlations of charged pion pairs measured in p up arrow plus p collisions at root s=500 GeV. In Physics Letters B, 2018, vol. 780, p. 332-339. (4.254 - IF2017). (2018 - Current Contents). ISSN 0370-2693.
- ADCA05 ADAMCZYK, L. - ADAMS, J.R. - ADKINS, J.K. - AGAKISHIEV, G. - AGGARWAL, M.M. - FILIP, Peter. Measurement of hyper triton lifetime in Au+Au collisions at the BNL Relativistic Heavy Ion Collider. In Physical Review C, 2018, vol. 97, no. 5, art. no. 054909. (3.304 - IF2017). (2018 - Current Contents, WOS, SCOPUS). ISSN 2469-9985.
- ADCA06 ADAMCZYK, L. - ADAMS, J.R. - ADKINS, J.K. - AGAKISHIEV, G. - AGGARWAL, M.M. - FILIP, Peter. Azimuthal transverse single-spin asymmetries of inclusive jets and charged pions within jets from polarized-proton collisions at root s=500 GeV. In Physical Review D, 2018, vol. 97 no. 3, art. no. 032004. (4.394 - IF2017). (2018 - Current Contents, WOS, SCOPUS). ISSN 1550-7998.
- ADCA07 ADAMCZYK, L. - ADAMS, J. R. - ADKINS, J. K. - AGAKISHIEV, G. - AGGARWAL, M. M. - FILIP, Peter. Beam-Energy Dependence of Directed Flow of  $\Lambda$ ,  $\Lambda^-$ ,  $K^\pm$ ,  $K^0$ s and  $\phi$  in Au+Au Collisions. In Physical Review Letters, 2018, vol. 120, no. 6, art. no. 062301. (8.839 - IF2017). (2018 - Current Contents, WOS, SCOPUS). ISSN 0031-9007.
- ADCA08 ALVAREZ-RUIZ, Daina T. - AZOUGH, Feridoon - HERNANDEZ-MALDONADO, David - KEPAPTSOGLOU, Demie M - RAMASSE, Quentin M. - DAY, Sarah J. - ŠVEC, Peter Jr. - ŠVEC, Peter - FREER, Robert. Utilising unit-cell twinning operators to reduce lattice thermal conductivity in modular structures: Structure and thermoelectric properties of Ga2O3(ZnO)(9). In Journal of Alloys and Compounds, 2018, vol. 762, p. 892 - 900. (3.779 - IF2017). (2018 - Current Contents, WOS, SCOPUS). ISSN 0925-8388.
- ADCA09 ANNUŠOVÁ, Adriana - MARINOV, Daniil - BOOTH, Jean-Paul - SIRSE, Nishant - LINO DA SILVA, Mario - LOPEZ, Bruno - GUERRA, Vasco. Kinetics of highly vibrationally excited O-2(X) molecules in inductively-coupled oxygen plasmas. In PLASMA SOURCES SCI T, 2018, vol. 27, no. 4, art. no. 045006, [30] p. (3.939 - IF2017). (2018 - Current Contents). ISSN 0963-0252.
- ADCA10 ANTLANGER, Moritz - KAHL, Gerhard - MAZARS, Martial - ŠAMAJ, Ladislav -

- TRIZAC, Emmanuel. The asymmetric Wigner bilayer. In Journal of Chemical Physics, 2018, vol. 149, no. 24, p. 244904. (2.843 - IF2017). (2018 - Current Contents). ISSN 0021-9606.
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- ADCA12 BALOG, Martin - ROŠOVÁ, Alica - SZUNDIOVÁ, Barbora - OROVČÍK, Ľubomír - KRÍŽIK, Peter - ŠVEC, Peter Jr. - KULICH, Miloslav - KOPERA, Ľubomír - KOVÁČ, Pavol - HUŠEK, Imrich - IBRAHIM, Ahmed Mohamed Hassan. HITEMAL-an outer sheath material for MgB<sub>2</sub> superconductor wires: the effect of annealing at 595–655 °C on the microstructure and properties. In Materials and Design, 2018, vol. 157, p. 12-23. (4.525 - IF2017). (2018 - Current Contents). ISSN 0261-3069.
- ADCA13 BAVARESCO, Jessica - HERRERA VALENCIA, Natalia - KLÖCKL, Claude - PIVOLUSKA, Matej - ERKER, Paul - FRIIS, Nicolai - MALIK, Mehul - HUBER, Marcus. Measurements in two bases are sufficient for certifying high-dimensional entanglement. In Nature Physics, 2018, vol. 14, no. 10, p. 1032 - 1037. (22.727 - IF2017). (2018 - Current Contents). ISSN 1745-2473.
- ADCA14 BODIK, Michal - ŠIFFALOVIC, Peter - NÁDAŽDY, Peter - BENKOVIČOVÁ, Monika - MARKOVIČ, Zoran M. - CHLPIK, Juraj - CIRAK, Július - KOTLÁR, Mário - MIČUŠÍK, Matej - JERGEL, Matej - MAJKOVÁ, Eva. On the formation of hydrophobic carbon quantum dots Langmuir films and their transfer onto solid substrates. In Diamond and Related Materials, 2018, vol. 83, p. 170-176. (2.232 - IF2017). (2018 - Current Contents). ISSN 0925-9635.
- ADCA15 BUTVINOVÁ, Beata - BUTVIN, Pavol - ŠVEC, Peter - MAŤKO, Igor - KUZMINSKI, M. Some advantages of multilayer over monolayer magnetic RQ ribbons. In Journal of Magnetism and Magnetic Materials, 2018, vol. 452, p. 86-89. (3.046 - IF2017). (2018 - Current Contents, WOS, SCOPUS). ISSN 0304-8853.
- ADCA16 CAMENZIND, Leon C. - YU, Luiqi - STAŇO, Peter - ZIMMERMAN, Jeramy D. - GOSSARD, Arthur C. - LOSS, Daniel - ZUMBÜHL, Dominik M. Hyperfine-phonon spin relaxation in a single-electron GaAs quantum dot. In Nature Communications, 2018, vol. 9, art. no. 3454. (12.353 - IF2017). (2018 - Current Contents, WOS, SCOPUS). ISSN 2041-1723.
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- ADCA18 CUBISS, J. G. - BARZAKH, A. E. - ANDREYEV, A. N. - AL MONTHERY, M. - ALTHUBITI, N. - ANDEL, B. - ANTALIC, S. - ATANASOV, D. - BLAUM, K. - COCOLIOS, T. E. - DAY GOODACRE, T. - DE GROOTE, R. P. - DE ROUBIN, A. - FAROOQ-SMITH, G. J. - FEDOROV, D. V. - FEDOSSEEV, V. N. - FERRER, R. - FINK, D. A. - GAFFNEY, L. P. - GHYS, L. - GREDLEY, A. - HARDING, R. D. - HERFURT, F. - HUYSE, M. - IMAI, N. - JOSS, D. T. - KÖSTER, U. - KREIM, S. - LIBERATI, V. - LUNNEY, D. - LYNCH, K. M. - MANEA, V. - MARSH, B. A. - MARTINEZ PALENZUELA, Y. - MOLKANOV, P. L. - MOSAT, P. - NEIDHERR, D. - O'NEILL, G. G. - PAGE, R. D. - PROCTER, T. J. -

- RAPISARDA, E. - ROSENBUSCH, M. - ROTHE, S. - SANDHU, K. - SCHWEIKHARD, L. - SELIVERSTOV, M. D. - SELS, S. - SPAGNOLETTI, P. - TRUESDALE, V. L. - VAN BEVEREN, C. - VAN DUPPEN, P. - VEINHARD, M. - VENHART, Martin - VESELSKÝ, Martin - WEARING, F. - WELKER, A. - WIENHOLTZ, F. - WOLF, R. N. - ZEMLYANOY, S. G. - ZUBERT, K. Change in structure between the  $I = 1/2$  states in  $^{181}\text{Tl}$  and  $^{177,179}\text{Au}$ . In *Physics Letters B*, 2018, vol. 786, p. 355 - 363. (4.254 - IF2017). (2018 - Current Contents). ISSN 0370-2693.
- ADCA19 ČENČARIKOVÁ, Hana - STREČKA, Jozef - GENDIAR, Andrej - TOMAŠOVIČOVÁ, Natália. The influence of further-neighbor spin-spin interaction on a ground state of 2D coupled spin-electron model in a magnetic field. In *Physica B: Condensed Matter*, 2018, vol. 536, p. 432 - 438. (1.453 - IF2017). (2018 - Current Contents, WOS, SCOPUS). ISSN 0921-4526.
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- ADMA07 LADYGIN, V.P. - AZHGIREY, L.S. - UESAKA, T. - GURCHIN, Y.V. - HATANO, M. - ITOH, K. - ISUPOV, A.Y. - JANEK, M. - KARACHUK, J.T. - KATO, H. - KAWABATA, T. - KRASNOV, V.A. - KHRENOV, A.N. - KISELEV, A.S. - KIZKA, V.A. - KLIMAN, Ján - KURILKIN, A.K. - KURILKIN, P.K. - LADYGINA, N.B. - LIVANOV, A.N. - MAEDA, Y. - MLAKHOV, A.I. - MATOUŠEK, Vladislav - MORHACH, M. - NISHIKAWA, J. - PILIPENKO, Y.K. - OHNISHI, T. - OKAMURA, H. - PIYADIN, S.M. - REZNIKOV, S.G. - SAITO, T. - SAKAGUCHI, S. - SAKAI, H. - SAKAMOTO, N. - SAKODA, S. - SASAMOTO, Y. - SATOU, Y. - SEKIGUCHI, K. - SUDA, K. - SHIKHALEV, M.A. - TAMII, A. - TURZO, Ivan - UCHIGASHIMA, N. - VASILIEV, T.A. - YAKO, K. - ZOLIN, L.S. Recent results from JINR-VBLHE on spin effects in few-nucleon systems. In *Czechoslovak journal of physics, 2006, vol. 56, suppl. F, p. F135-F150. (0.360 - IF2005). (2006 - Current Contents, WOS, SCOPUS). ISSN 0011-4626.*  
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- ADMA08 LORENZ, M. - ADAMCZEWSKI-MUSCH, J. - ARNOLD, O. - ATOMSSA, E.T. - BEHNKE, C. - HLAVÁČ, Stanislav. Strange hadron production at SIS energies: an update from HADES. In *Journal of Physics: Conference Series. - Bristol : IOP, 2016, vol. 668, 012022. (2016 - SCOPUS, WOS). ISSN 1742-6588.*  
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 2. [1.1] GRANADOS, Carlos - LEUPOLD, Stefan - PEROTTI, Elisabetta. The

- electromagnetic Sigma-to-Lambda hyperon transition form factors at low energies. In EUROPEAN PHYSICAL JOURNAL A. ISSN 1434-6001, 2017, vol. 53, no. 6, 117., Registrované v: WOS*
- ADMA09 MARTINOVIČ, Lubomír. QCD sum rules and the properties of rho - and phi-meson excited states. In Physical review D, 1991, vol. 44 no. 1, p. 220-224. ISSN 1550-7998.  
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- ADMA10 REETZ, T. - HAASE, I. - ULLMANN, H. - LANG, H.J. - SALY, V. - HARTMANOVÁ, Mária. Preparation and properties of transparent thoria yttria ceramics. In Solid State Ionics : diffusion and reactions, 1989, vol. 36, no. 3-4, p. 193-195. ISSN 0167-2738.  
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*2. [1.1] CLAVIER, N. - CHERKASKI, Y. - MARTINEZ, J. - et al. Synthesis and Direct Sintering of Nanosized (M-IV,M-III)O2-x Hydrated Oxides as Electrolyte Ceramics. In CHEMPHYSICHEM. ISSN 1439-4235, 2017, vol. 18, no. 19, pp. 2666-2674., Registrované v: WOS*
- ADMA11 ŠAMAJ, Ladislav - KOLESÍK, Miroslav. Mapping of p-state symmetrical vertex model on the honeycomb lattice onto its ising-spin counterpart. In International Journal of Modern Physics B, 1992, vol. 6, no. 2, pp. 251-260. ISSN 0217-9792.  
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- ADMA12 ZIGO, Juraj - ŠVEC, Peter Jr. - JANIČKOVIČ, Dušan - JANOTOVÁ, Irena - MAŤKO, Igor - MIHALKOVIČ, Marek - ŠVEC, Peter. Evolution of complex phases in Al-Fe-Si systems. In Materials Research, 2015, vol. 18, p. 141-145. (0.793 - IF2014). ISSN 1516-1439.  
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#### **ADMB Vedecké práce v zahraničných neimpaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS**

- ADMB01 ADAMUŠČIN, Cyril - BARTOŠ, Erik - DUBNIČKA, Stanislav - DUBNIČKOVÁ, A.Z. Advanced nucleon electromagnetic structure model and charge proton rms radius. In Nuclear Physics B - Proceedings Supplements, 2013, vol. 245, p. 69-73. (2013 - WOS, SCOPUS). ISSN 0920-5632.  
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- ADMB02 AFANASIEV, S.V. - ARTIOMOV, A.S. - BEKMIRZAEV, R.N. - DRYABLOV, D.K. - IGAMKULOV, Z.A. - IVANOV, V.I. - ISUPOV, A.Yu. - JOMURODOV, D.M. - MALAKHOV, A.I. - MATOUŠEK, Vladislav - MORHÁČ, Miroslav - LEBEDEV, A.I. - LVOV, A.I. - PAVLYUCHENKO, L.N. - PLEKHANOV, E.B. - POLYANSKY, V.V. - SIDORIN, S.S. - SOKOL, G.A. - TURZO, Ivan. Search results of Eta-mesic nuclei in the d+C reaction in JINR. In Nuclear Physics B - Proceedings Supplements, 2011, vol. 219-220, p. 255-258. ISSN 0920-5632.

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- ADMB03 GUPTA, P. - GANGULI, T. - SINHA, A.K. - SINGH, M.N. - ŠVEC, Peter Jr. - DEB, S.K. Ordering of FeCo nanocrystalline phase in FeCoNbB alloy: An anomalous diffraction study. In AIP Conference Proceedings, 2013, vol. 1512, p. 362-363. (2013 - WOS, SCOPUS). ISSN 0094-243X.

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*1. [1.1] TOEBBENS, Daniel M. - SCHORR, Susan. The use of anomalous x-ray diffraction as a tool for the analysis of compound semiconductors. In SEMICONDUCTOR SCIENCE AND TECHNOLOGY. ISSN 0268-1242, 2017, vol. 32, no. 10, 103002., Registrované v: WOS*

- ADMB04 KRÍŽIK, Peter - BALOG, Martin - BAJANA, Otto - RIGLOS, Maria Victoria Castro - ŠVEC, Peter. Warm Pressing of Al Powders: An Alternative Consolidation Approach. In Light Metals. Part X, 2017, vol., p. 463-469. ISBN 978-3-319-51541-0.

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*1. [1.2] OROVČÍK, Lubomír - NOSKO, Martin - ROSOVÁ, Alica. EBSD of aluminium powder compacts Preparation method for observation in dependence on powder size. In Mechanical Technology and Structural Materials. ISSN 18477917, 2017-01-01, 2017, 55, pp. 99-102., Registrované v: SCOPUS*

- ADMB05 ŠKORVÁNEK, Ivan - MARCIN, Jozef - KOVÁČ, J. - ŠVEC, Peter - LUPU, N. - CHIRIAC, H. Tuning of soft magnetic properties in FeCo- and FeNi- based amorphous and nanocrystalline alloys by thermal processing in external magnetic field. In Materials Science Forum, 2014, vol. 783-786, p. 1937-1942. (2014 - SCOPUS). ISSN 0255-5476.

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*1. [1.2] ZHOU, Jian - MENG, Li - YANG, Fuyao - WU, Xue - MA, Guang - CHEN, Leng. Influence of Transverse-field Annealing on the Properties and High Frequency Core Loss Analysis of 1K107 Nanocrystalline Core. In Cailiao Daobao/Materials Review. ISSN 1005023X, 2017-07-25, 31, 7, pp. 22-25., Registrované v: SCOPUS*

**ADNA Vedecké práce v domácich impaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS**

- ADNA01 DUBNIČKOVÁ, A. Z. - DUBNIČKA, Stanislav - STRIŽINEC, P. NAIVE MODEL OF ELECTROMAGNETIC STRUCTURE OF OCTET BARYONS. In Czechoslovak journal of physics, 1993, vol. 43, no. 12, p. 1177-1189. (0.309 - IF1992). (1993 - Current Contents, WOS, SCOPUS). ISSN 0011-4626.

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*1. [1.1] DOBBS, S. - SETH, Kamal K. - TOMARADZE, A. - XIAO, T. - BONVICINI, G. Hyperon form factors and diquark correlations. In PHYSICAL*

*REVIEW D. ISSN 2470-0010, 2017, vol. 96, no. 9, 092004., Registrované v: WOS*

**\*AEC Vedecké práce v zahraničných recenzovaných vedeckých zborníkoch, monografiách**

- AEC01 BENÁK, Michal - TURŇA, Milan - OŽVOLD, Milan - NESVADBA, Petr - LOKAJ, Ján - ČAPLOVIČ, Ľubomír - KOVÁČ, František - STOYKA, Volodymyr. Study of Al-austenitic steel boundary formed by explosion welding. In Metal 2010 : 19. mezinárodní konference metalurgie a materiálů. Rožnov pod Radhoštěm, 18.-20.5.2010. - Ostrava : Tanger, s.r.o., 2010, s. 235-240. ISBN 978-80-87294-15-4.(Metal 2010 : 19. mezinárodní konference metalurgie a materiálů).

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*1. [1.1] Shiran, Mohammad Reza Khanzadeh Ghareh; Bakhtiari, Haimd; Mousavi, Seyed Ali-Asghar Akbari; et al.: MATERIALS RESEARCH-IBERO-AMERICAN JOURNAL OF MATERIALS Volume: 20 Issue: 2 Pages: 291-302 Published: MAR-APR 2017, 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] JASTRZEBSKI, R. - CHWASTEK, K. - BIONDIC, I. - MILICEVIC, K. A Comparison of Different Estimation Methods for Hysteresis Modelling. In ACTA PHYSICA POLONICA A. ISSN 0587-4246, 2017, vol. 131, no. 5, pp. 1228-1231., Registrované v: WOS*

- AECA02 NOWICKI, M. - ŠVEC, Peter - JACKIEWICZ, D. - SZEWCZYK, R. Magnetic thermogravimetric analysis of CuCo and CuFe amorphous alloys. In Progress in Automation, Robotics and Measuring Techniques. Vol. 352.Measuring Techniques and Systems. - Cham : Springer International Publishing, 2015, p. 197-204. ISBN 978-3-319-15834-1.

*Citácie:*

*1. [1.1] HASIER, John - RIOLO, Maria Annichia - NASH, Philip. Curie temperature determination via thermogravimetric and continuous wavelet transformation analysis. In EPJ TECHNIQUES AND INSTRUMENTATION. ISSN 2195-7045, 2017, vol. 4, no. 5., Registrované v: WOS*

**AFC Publikované príspevky na zahraničných vedeckých konferenciách**

- AFC01 AHARONOV, D. - HARROW, A.W. - LANDAU, Z. - NAGAJ, Daniel - SZEGEDY, M. - VAZIRANI, U. Local tests of global entanglement and a counterexample to the generalized area law. In Proceedings of 55th Annual IEEE Symposium on Foundations of Computer Science (FOCS). - New York : IEEE, 2014, p. 246-255. ISBN 978-1-4799-6517-5. ISSN 0272-5428.

*Citácie:*

*1. [1.1] ANSHU, Anurag. An upper bound on quantum capacity of unital quantum channels. In 2017 IEEE INFORMATION THEORY WORKSHOP (ITW). ISSN 2475-420X, 2017, vol., no., pp. 214-218., Registrované v: WOS*

- AFC02 GOSSET, D. - NAGAJ, Daniel. Quantum 3-SAT is QMA(1)-complete. In 2013 IEEE 54TH ANNUAL SYMPOSIUM ON FOUNDATIONS OF COMPUTER SCIENCE (FOCS). - Washington : CPS Conference Publishing Services, Oct. 26, 2013. ISBN 978-0-7695-5135-7. ISSN 0272-5428.  
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2. [1.1] WENDIN, G. *Quantum information processing with superconducting circuits: a review. In REPORTS ON PROGRESS IN PHYSICS. ISSN 0034-4885, 2017, vol. 80, no. 10, 106001., 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.  
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- 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] SCHMIDT, K. - CAO, X. - KIM, E. J. - HAGEL, K. - BARBUI, M. - GAUTHIER, J. - WUENSCHER, S. - GIULIANI, G. - RODRIGUES, M. R. D. - ZHENG, H. - HUANG, M. - BLANDO, N. - BONASERA, A. - WADA, R. - BOTOSSO, C. - LIU, G. - VIESTI, G. - MORETTO, S. - PRETE, G. - PESENTE, S. - FABRIS, D. - EL MASRI, Y. - KEUTGEN, T. - KOWALSKI, S. - KUMAR, A. - ZHANG, G. - NATOWITZ, J. B. *alpha-conjugate neck structures in the collisions of 35 MeV/nucleon Ca-40 with Ca-40. In PHYSICAL REVIEW C. ISSN 2469-9985, 2017, vol. 95, no. 5, 054618., Registrované v: WOS*



## ***Príloha D***

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

#### Semestrálne prednášky:

Ing. Matej Jergel, DrSc.

Názov semestr. predmetu: Nanotechnológie

Počet hodín za semester: 2

Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, Ústav jadrového a fyzikálneho inžinierstva

Mgr. Daniel Nagaj, PhD.

Názov semestr. predmetu: Úvod do kvantovej teórie informácie

Počet hodín za semester: 24

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

Počet hodín za semester: 26

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

Doc. Mgr. Mário Ziman, PhD

Názov semestr. predmetu: Kvantová teória merania

Počet hodín za semester: 39

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

#### Semestrálne cvičenia:

Ing. Vojtech Nádaždy, CSc.

Názov semestr. predmetu: Nanotechnológie

Počet hodín za semester: 4

Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Ústav jadrového a fyzikálneho inžinierstva

RNDr. Matej Pivoluska, PhD.

Názov semestr. predmetu: Kódovanie, kryptografia a kryptografické protokoly

Počet hodín za semester: 48

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

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

Semináre:

Terénne cvičenia:

Individuálne prednášky:

Doc. Mgr. Mário Ziman, PhD

Názov semestr. predmetu: Higher-order quantum structures

Počet hodín za semester: 8

Názov katedry a vysokej školy: University of Turku, Fínsko, Theoretical Physics

**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	3			Vladimír Bužek	4
	Dušan Janičkovič	2			Vladimír Bužek	5
	Dušan Janičkovič	3			Vladimír Bužek	6
	Štefan Luby	2			Vladimír Bužek	3
					Vladimír Bužek	6
					Jozef Klimo	7
					Peter Švec	2
Bulharsko					Martin Plesch	3
Cyprus	Irena Janotová	3			Peter Švec	3
	Peter Švec Jr.	3				
Česko					Peter Filip	2
					Štefan Gmuca	1
					Katarína Gmucová	2
					Pavol Kalinay	6
					Eva Majková	2
					Nad'a Mrkývková	2
					Vojtech Nádaždy	1
					Vojtech Nádaždy	2
					Daniel Reitzner	1
					Anton Repko	11
					Peter Šiffalovič	1
					Peter Šiffalovič	2
					Ivan Štich	2
					Martin Venhart	3
					Martin Veselský	3
					Mário Ziman	2
					Mário Ziman	2
Čína					Krisztián Palotás	14
					Emil Pinčík	7
					Riyas Subair	25
					Martin Veselský	8
					Martin Veselský	59
					Mário Ziman	38
Fínsko					Andrej Herzán	5
					Daniel Reitzner	5
					Daniel Reitzner	6
					Daniel Reitzner	7
					Mário Ziman	26
Francúzsko	Ladislav Šamaj	46			Michal Bodík	6
					Vladimír Bužek	2
					Andrej Gendiar	5

				Jakub Hagara	6
				Nad'a Mrkývková	6
				Peter Nádaždy	6
				Pareshkumar Manharbhai Prajapati	12
				Peter Šiffalovič	6
Guatemala				Vladimír Bužek	6
Japonsko				Andrej Gendiar	15
				Andrej Gendiar	18
				Roman Krčmár	18
				Roman Krčmár	15
				Ivan Štich	13
				Ivan Štich	16
Kórejská republika				Krisztián Palotás	7
Litva				Vladimír Bužek	3
Nemecko				Michal Bodík	6
				Jakub Hagara	6
				Nad'a Mrkývková	6
				Peter Nádaždy	6
				Daniel Nagaj	4
				Daniel Nagaj	4
				Krisztián Palotás	2
				Peter Šiffalovič	4
Nórsko				Irena Janotová	3
				Marek Mihalkovič	3
				Peter Švec	3
				Peter Švec Jr.	3
Rakúsko	Igor Mat'ko	7		Vladimír Bužek	1
	Igor Mat'ko	6		Marek Mihalkovič	4
	Igor Mat'ko	7		Daniel Nagaj	4
				Jaroslav Pavličko	4
				Martin Plesch	3
				Martin Plesch	1
				Pareshkumar Manharbhai Prajapati	1
				Pareshkumar Manharbhai Prajapati	1
				Michal Sedlák	2
				Peter Šiffalovič	1
				Ivan Štich	4
				Mário Ziman	2
Rumunsko				Stanislav Dubnička	7
Rusko	Ján Kliman	15		Stanislav Dubnička	4
				Stanislav Dubnička	12
				Stanislav Dubnička	7
				Stanislav Dubnička	5
				Andrej Liptaj	12
				Miroslav Nagy	31
				Anton Repko	107
Španielsko				Stanislav Dubnička	7
				Irena Janotová	5

					Matej Jergel	2
					Riyas Subair	7
					Peter Švec	4
					Peter Švec Jr.	4
Švajčiarsko	Andrej Herzán	2			Stanislav Dubnička	12
	Andrej Herzán	4			Martin Veselský	2
	Andrej Herzán	3				
	Jozef Klimo	12				
	Jakub Krajňák	4				
	Jakub Krajňák	7				
	Andrej Liptaj	11				
	Vladislav Matoušek	7				
	Matúš Sedlák	7				
	Róbert Urban	12				
	Martin Venhart	2				
	Martin Venhart	3				
Taiwan					Martin Plesch	6
					Robert Turanský	8
Taliansko					Monika Benkovičová	5
					Ján Ivančo	5
					Jozef Klimo	6
					Daniel Nagaj	5
					Daniel Nagaj	2
					Pareshkumar Manharbhai Prajapati	3
					Michal Sedlák	4
					Peter Švec	3
USA					Vladimír Bužek	5
					Marek Mihalkovič	34
					Marek Mihalkovič	17
Veľká Británia					Matúš Balogh	4
					Krisztián Palotás	5
					Michal Sedlák	4
<b>Počet vyslaní spolu</b>	<b>23</b>	<b>171</b>			<b>110</b>	<b>866</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
Barbados					Shantnav Chakraborty	5
Belgicko					Leonardo Novo	5
Česko					Jan Bouda	4
					Ludek Makk	25



Fínsko				Teiko Heinosaari	5
				Tom Bullock	15
Francúzsko				Marios Christodoulou	4
Holandsko				Wim van Saarloos	2
India				Pradeep Kumar Mohanty	3
Irán				Sayed Arash Ghireishi	244
Japonsko				Nobuhisa Fujita	7
Maďarsko	Dr. József Cseh	7			
	Dr. Judit Darai	7			
Mexiko				David Davalos	25
				David Davalos	21
Rusko				Anton Bozhedarov	21
				Artem Glinov	21
				Prof. Valerij Sidorov	12
				Sergej Philippov	9
Španielsko				Mgr. Alejandro Manchon Gordon	15
				Mgr. Javier Rial	62
Švajčiarsko				Bc. Lauro Müller	59
Turecko				Dr. Kursat Icin	4
				Dr. Metin Gobuluk	4
				Kaan Yasar	101
				Prof. Dr. Sultan Ozturk	4
Veľká Británia				Nikes Dattani	1
				Sanjaye Kumar Ramgoolam	4
				Sergei Strelchuk	6
<b>Počet prijatí spolu</b>	<b>2</b>	<b>14</b>		<b>27</b>	<b>688</b>

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

Krajina	Názov konferencie	Meno pracovníka	Počet dní
Austrália	IMC19	Ivan Štich	11
Brazília	Qturn 2018	Matej Pivoluska	9
Česko	51st Heyrovský discussion	Jakub Hagara	5
	7th JCS SYMPOSIUM	Ivan Štich	5
	NANOCON 2018	Anna Kálosi	4
	Nonlinear Quantum Optics	Vladimír Bužek	3
	SPSTM-&LTSPM-1 International Conference 2018	Michal Bodík	6
Čína	2nd Theory of Heterointerfaces & Surfaces (THIS)	Krisztián Palotás	1
	AM2018	Emil Pinčík	4
	ICAMP-9	Peter Švec	7
	The Role of The Observer	Michal Sedlák	8
	Workshop on Quantum Information Science	Mário Zíman	4

Francúzsko	2018 Spring Meeting	Matej Jergel	4
	9th International Conference on Molecular Electron	Nad'a Mrkývková	6
	Psi-k Scientific Advisory Committee Meeting 2018	Krisztián Palotás	3
Grécko	HNPS2018	Jozef Klimo	5
Holandsko	QIP 2018	Daniel Nagaj	6
		Jaroslav Pavličko	8
		Matej Pivoluska	6
		Martin Plesch	6
India	ICN 2018	Eva Majková	7
		Riyas Subair	8
Irán	IICQI 2018	Mário Ziman	7
Izrael	21st Sede Boqer Symposiuml on Solar Electricity Pr	Eva Majková	4
Japonsko	3nd International Symposium on Recent Trends in th	Ivan Štich	2
	PCM 2018	Vojtech Nádaždy	8
	STS forum 2018	Daniel Reitzner	3
	TNSAA 2018-2019	Andrej Gendiar	4
		Roman Krčmár	4
JAR	QTML 2018	Jaroslav Pavličko	7
Kórejská republika	NANO KOREA 2018	Krisztián Palotás	4
Maďarsko	Entanglement Days 2018	Mário Ziman	3
Nemecko	DPG Spring Meeting 2018	Krisztián Palotás	6
	Falling Walls	Vladimír Bužek	3
	Konferencia DAC	Štefan Luby	4
	Nano S&T-2018	Eva Majková	5
	Nano-S & T	Matej Jergel	5
	OREQTN	Andrej Gendiar	7
		Roman Krčmár	7
	THERMAM 2018	Vlastimil Boháč	5
	TNBAQMBS	Eva Pospíšilová	7
	Workshop "EM structure of strange baryons"	Stanislav Dubníčka	6
Poľsko	50 Symposium on Mathematical Physics	Mário Ziman	5
	ECMetAC Days 2018	Marek Mihalkovič	4
	MESON2018	Erik Bartoš	8
		Stanislav Dubníčka	8
	SMMM18	Peter Švec	107
	TAPS 2018	Daniel Reitzner	5
	XXV Nuclear Physics Workshop	Anton Repko	6
Rakúsko	CPS 2018	Peter Rapčan	2
		Daniel Reitzner	2
	IND Tech 2018	Dušan Janičkovič	1
	QML+ 2018	Mário Ziman	2
	Seminár IAEA	Stanislav Hlaváč	1
	WQM	Peter Rapčan	3
		Michal Sedlák	3
Rumunsko	CA COST Action CA15107 meeting	Peter Šiffalovič	3
	CA COST Action CA15107 meeting;	Michal Bodík	3
	ChETEC Training School in Nuclear Astrophysics	Matúš Balogh	15
		Jakub Krajňák	15

	ESTAC12	Igor Maľko	7
Rusko	HTMC-XVI	Dušan Janičkovič	7
		Peter Švec	7
	HTMC16	Peter Švec Jr.	4
	ISHEPP XXIV	Štefan Gmuca	6
	MIPT (PhysTech)-QUANT - 2018	Daniel Reitzner	6
		Michal Sedlák	9
Singapur	AWC	Ivan Štich	8
Srbsko	Excited QCD 2018	Stanislav Dubníčka	6
Španielsko	ACTAR Workshop	Jozef Klimo	6
	SEPV 2018	Eva Majková	6
	SQC 2018	Jaroslav Pavličko	10
Švajčiarsko	PSCO-2018	Peter Šiffalovič	4
Švédsko	European Advanced Materials Congress	Ivan Štich	6
Taliansko	ISMANAM 18	Irena Janotová	7
	SPSSM 2018	Krisztián Palotás	9
USA	ANALYTIX - 2018	Matej Jergel	6
	Aperiodic 2018	Marek Mihalkovič	6
	APS March Meeting 2018	René Derian	7
	ICTAC 17	Marián Krajčí	7
Veľká Británia	7th biennial SuperSTEM Summer School	Peter Švec Jr.	8
	NUGRID	Pareshkumar Manharbhai Prajapati	5
<b>Spolu</b>	<b>70</b>	<b>82</b>	<b>567</b>

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

### Skratky použité v tabuľke C:

2018 Spring Meeting - The 2018 E-MRS Spring Meeting and Exhibit

21st Sede Boqer Symposium on Solar Electricity Production - 21st Sede Boqer Symposium on Solar Electricity Production

2nd Theory of Heterointerfaces & Surfaces (THIS) - 2nd Theory of Heterointerfaces & Surfaces (THIS) Workshop

3rd International Symposium on Recent Trends in the - 3rd International Symposium on Recent Trends in the

Elucidation and Function Discovery of Next Generation Functional Materials of Surface/Interface Properties

50 Symposium on Mathematical Physics - 50 Symposium on Mathematical Physics

51st Heyrovský discussion - 51st Heyrovský discussion

7th biennial SuperSTEM Summer School - 7th biennial SuperSTEM Summer School

7th JCS SYMPOSIUM - Quantum chemistry, from methodology to applications in organic, inorganic, biochemistry

9th International Conference on Molecular Electron - 9th International Conference on Molecular Electronics

ACTAR Workshop - Workshop on Active Targets and Time Projection Chambers for High-intensity and Heavy-ion beams in Nuclear Physics.

AM2018 - The 4th International Congress on Advanced Materials

ANALYTIX - 2018 - BIT'S 6TH ANNUAL CONFERENCE OF ANALYTIX-2018

Aperiodic 2018 - 9th Conference on Aperiodic Crystals

APS March Meeting 2018 - APS March Meeting 2018

AWC - Advanced Materials World Congress

CA COST Action CA15107 meeting - Multi-functional Nano-Carbon Composite Materials Network

CA COST Action CA15107 meeting; - Multi-functional Nano-Carbon Composite Materials Network

ChETEC Training School in Nuclear Astrophysics - ChETEC Training School in Nuclear Astrophysics

CPS 2018 - Concepts of Probability in the Sciences

DPG Spring Meeting 2018 - Joint Meeting of the German Physical Society and the European Physical Society

Condensed Matter Divisions

ECMetAC Days 2018 - ECMetAC Days 2018 Conference

Entanglement Days 2018 - Entanglement Days 2018

ESTAC12 - 12th European Symposium on Thermal Analysis and Calorimetry

European Advanced Materials Congress - European Advanced Materials Congress  
Excited QCD 2018 - Excited QCD 2018  
Falling Walls - Falling Walls  
HNPS2018 - 27th Annual Symposium Hellenic Nuclear Physics Society  
HTMC-XVI - XVI International IUPAC Conference on High Temperature Materials Chemistry  
HTMC-XVI - t6th IUPAC Conference High Temperature Materials Chemistry  
HTMC16 - High Temperature Materials Chemistry  
ICAMP-9 - 9th International Conference on Advanced Materials Processing  
ICN 2018 - Third International Conference on Nanomaterials: Synthesis, Characterization and Applications  
ICN 2018 - Third International Conference on Nanomaterials Synthesis, Characterization and Applications  
ICTAC 17 - International Conference on Theoretical Aspects of Catalysis  
IICQI 2018 - International Iran Conference on Quantum Information 2018  
IMC19 - 19th International Microscopy Congress  
IND Tech 2018 - INDustrial TECHnologies 2018  
ISHEPP XXIV - XXIV International Baldin Seminar on High Energy Physics Problems  
ISMANAM 18 - The 25th International Symposium on Metastable, Amorphous and Nanostructured Materials  
Konferencia DAC - 9th Danube Academies Conference  
MESON2018 - 15th International Workshop on Meson Physics  
MIPT (PhysTech)-QUANT - 2018 - International conference on quantum technologies PhysTech Quant  
NANO KOREA 2018 - 16th International Nanotech Symposium & Nano-Convergence Exhibition  
Nano S&T-2018 - The 8th Annual World Congress of Nano Science & Technology  
Nano-S & T - Bit's 8 th Annual World Congress of Nano Science & Technology  
NANOCON 2018 - 10th Anniversary International Conference on Nanomaterials-Research & Application  
Nonlinear Quantum Optics - Nonlinear Quantum Optics  
NUGRID - NuGrid/JINA-CEE/ChETEC School: Software Tools for Simulations in Nuclear Astrophysics  
OREQTN - Optimising, Renormalising, Evolving and Quantising Tensor Networks  
PCM 2018 - 2018 Global Conference on Polymer and Composite Materials  
PSCO-2018 - 4th International Conference on Perovskite Solar Cells and Optoelectronics  
Psi-k Scientific Advisory Committee Meeting 2018 - Psi-k Scientific Advisory Committee Meeting 2018  
QIP 2018 - 21th Annual Conference on Quantum Information Processing  
QIP 2018 - Quantum Information Processing (QIP) 2018  
QML+ 2018 - Conference on Quantum Machine Learning Plus  
QTML 2018 - Quantum Techniques in Machine Learning (QTML 2018)  
Qturn 2018 - Q-turn: quantum information workshop in Florianapolis  
Seminár IAEA - Workshop on the Compilation of Experimental Nuclear Reaction Data  
SEPV 2018 - Stability of Emerging Photovoltaics from Fundamental to Applications  
SMMM18 - XIII Symposium of Magnetic Measurements & Modeling SMMM18  
SPSSM 2018 - 7th International Symposium on Structure-Property relationship in Solid State Materials  
SPSTM-&LTSPM-1 International Conference 2018 - International Union for Vacuum Science, Technique and Applications  
SQC 2018 - Secure Quantum Communications School  
STS forum 2018 - STS forum 2018 - 15th Annual Meeting  
TAPS 2018 - TAPS - The Toruń Astrophysics/ Physics Summer School 2018  
The Role of The Observer - Hong Kong Workshop on Quantum Information and Foundations  
THERMAM 2018 - 7th Rostocer International conference "Thermophysical properties for technical"  
TNBAQMBS - Tensor Network based approaches to Quantum Many-Body Systems  
TNSAA 2018-2019 - Tensor Network States: Algorithms and Applications  
Workshop "EM structure of strange baryons" - Application for an EMMI Rapid Reaction Task Force meeting on Electromagnetic Structure of Strance Baryons  
Workshop on Quantum Information Science - Hong Kong-Shenzhen Workshop on Quantum Information Science  
WQM - mini-Workshop on the foundations of Quantum mechanics  
XXV Nuclear Physics Workshop - XXV Nuclear Physics Workshop Structure & Dynamics of Atomic Nucleus

**Príloha F****Vedecko-popularizačná činnosť pracovníkov organizácie SAV**

<b>Meno</b>	<b>Spoluautori</b>	<b>Typ<sup>1</sup></b>	<b>Názov</b>	<b>Miesto zverejnenia</b>	<b>Dátum alebo počet za rok</b>
Mgr. Cyril Adamuščin, PhD.		PB	„Plochá Zem a geocentrizmus“ (O histórii a o tom, ako si ich overiť na vlastné oči.)	Deň otvorených dverí FÚ SAV	7.11.2018
Mgr. Matúš Balogh		PB	CERN: od elementárnych častíc, cez atómové jadrá, až po praktické aplikácie v medicíne a IT	Bratislave, Fyzikálny ústav SAV, Patrónka Bratislava	7.11.2018
Mgr. Matúš Balogh		iné	Festival vedy a techniky - CERN expozícia	Incheba, Bratislava	9.11.2018
Mgr. Matúš Balogh		PB	Radiation, Heavy Ions and Stuff	Gymnázium na Golianovej ulici 68, Nitra	5.11.2018
Mgr. Matúš Balogh		TV	Reflex - Klimatizácie bez hadice	TV Markíza	12.10.2018
Mgr. Matúš Balogh		PB	Shape of atomic nuclei	Gymnázium na Golianovej ulici 68, Nitra	5.11.2018
Mgr. Matúš Balogh	Martin Venhart	RO	Veda SK - Máme sa báť fyziky?	Slovenský rozhlas	24.3.2018
Mgr. Andrej Gendiar, PhD.		PB	Od mikrosvetu až po vesmír	ZŠ Narnia Pezinok	23.2.2018
Mgr. Andrej Gendiar, PhD.		PB	Štatistika v biológii	Muzeum G. Mendela v Brne	5.10.2018
RNDr. Katarína Gmucová, CSc.		TL	článok v Pravde: Nad kôpkami listín	<a href="https://nazory.pravda.sk/analzy-a-postrehy/c-lanok/479849-nad-kopkami-listin/">https://nazory.pravda.sk/analzy-a-postrehy/c-lanok/479849-nad-kopkami-listin/</a>	10.8.2018
Ing. Ján Ivančo, DrSc.	kolektív OMN	PB	Európska noc výskumníkov	Bratislava	28.9.2018
Ing. Ján Ivančo, DrSc.	Peter Nádaždy, Vojtech Nádaždy	EX	Predstavenie pracoviska účastníkom konferencie IC MAST	Bratislava	27.9.2018
Ing. Matej Jergel, DrSc.		PB	DOD 2018, prezentácia výskumných aktivít OMN	<a href="http://www.fu.sav.sk/index.php?id=dod">http://www.fu.sav.sk/index.php?id=dod</a>	8.11.2018
Ing. Matej Jergel, DrSc.		PB	Noc výskumníka, prezentácia výskumných aktivít v OMN	Stará tržnica, Bratislava	28.9.2018
Dr.Rer.Nat. Ing. Mgr. Andrej Liptaj, PhD.		TL	Článok v novinach Pravda	denník Pravda	15.3.2018
Ing. Vojtech Nádaždy, CSc.		iné	Noc výskumníka, prezentácia výskumných aktivít OMN	Stará tržnica	28.9.2018
Mgr. Daniel Nagaj, PhD.		PB	Klasická a kvantová kryptografia	Gymn. L. Štúra vo Zvolene	16.5.2018
Mgr. Daniel Nagaj,		PB	The importance of	Dell i3 konferencia	18.10.2018



PhD.			(quantum) puzzles		
Doc. RNDr. Martin Plesch, PhD.		TV	Občan za dverami - odborné vyjadrenie	<a href="https://www.rtvsk.sk/tel-evizia/archiv/13067/154048#8">https://www.rtvsk.sk/tel-evizia/archiv/13067/154048#8</a>	22.4.2018
Doc. RNDr. Martin Plesch, PhD.		IN	Rozhovor	<a href="https://touchit.sk/ako-na-telefone-hovory-ktor-e-sa-nedaju-odpocuvat/198880">https://touchit.sk/ako-na-telefone-hovory-ktor-e-sa-nedaju-odpocuvat/198880</a>	22.10.2018
Doc. RNDr. Martin Plesch, PhD.	Martin Marek, Matej Badin	TL	Stredoškolač opravil fyzikov a správne vysvetlil pohyb mechanickej hračky, článok vydal v kvalitnom časopise	<a href="https://dennikn.sk/1044269/stredoskolak-opravil-fyzikov-a-spravne-vysvetlil-pohyb-mechanickej-hracky-clanok-vydal-v-kvalitnom-casopise/">https://dennikn.sk/1044269/stredoskolak-opravil-fyzikov-a-spravne-vysvetlil-pohyb-mechanickej-hracky-clanok-vydal-v-kvalitnom-casopise/</a>	10.3.2018
RNDr. Daniel Reitzner, PhD.		PB	DOD FÚ SAV - Kvantová informácia a jej možnosti využitia v praxi	<a href="http://www.fu.sav.sk/dod">www.fu.sav.sk/dod</a>	7.11.2018
RNDr. Daniel Reitzner, PhD.		PB	Noc výskumníkov 2018 – Kvantová informácia a jej možnosti využitia v praxi	<a href="http://www.nocvyskumnikov.sk">www.nocvyskumnikov.sk</a>	28.9.2018
Ing. Matúš Sedlák		iné	Festival Vedy a Techniky - expozícia CERN	Incheba, Bratislava	9.11.2018
RNDr. Ondrej Šauša, CSc.		PB	Beseda o vedeckej práci	Gymnázium Františka Švantnera, Nová Baňa	23.11.2018
Ing. Peter Švec, DrSc.		EX	Deň otvorených dverí FÚ SAV	Fyzikálny ústav SAV	7.11.2018
Ing. Peter Švec Jr., PhD.	P. Švec st., I. Janotová	iné	Deň otvorených dverí FÚ SAV	Fyzikálny ústav SAV	7.11.2018
Mgr. Martin Venhart, PhD.		PB	Aký tvar majú atómové jadrá	Gymnázium Cyrila Daxnera vo Vranove nad Topľou	30.11.2018
Mgr. Martin Venhart, PhD.		PB	CERN: od elementárnych častíc, cez atómové jadrá, až po praktické aplikácie v medicíne a IT	Aula SAV, Bratislava	24.10.2018
Mgr. Martin Venhart, PhD.		PB	Festival vedy a techniky AMAVET, CERN: od elementárnych častíc, cez atómové jadrá, až po praktické aplikácie v medicíne a IT	Incheba, Bratislava	9.11.2018
Mgr. Martin Venhart, PhD.		PB	Finále IQ olympiády: Kde sa vzali chemické prvky vo vesmíre	Kongresové centrum SAV, Smolenice	3.6.2018
Mgr. Martin Venhart, PhD.		PB	Hodžove dni: Kde sa vzali chemické prvky vo vesmíre	Bilingválne gymnázium Milana Hodžu, Sučany	26.4.2018
Mgr. Martin Venhart, PhD.		PB	Kde sa vzali chemické prvky vo vesmíre	Elektrárňa Piešťany	20.11.2018

Mgr. Martin Venhart, PhD.		PB	Kde sa vzali chemické prvky vo vesmíre	Gymnázium Cyrila Daxnera vo Vranove nad Topľou	30.11.2018
Mgr. Martin Venhart, PhD.		PB	Kde sa vzali chemické prvky vo vesmíre	Gymnázium Ľudovíta Štúra Zvolen	7.5.2018
Mgr. Martin Venhart, PhD.		PB	Kde sa vzali chemické prvky vo vesmíre	ZŠ Pezinok, Fándlyho 11	20.6.2018
Mgr. Martin Venhart, PhD.		PB	Košická vedecká kaviareň: Aký tvar majú atómové jadrá	Tabačka Košice	27.9.2018
Mgr. Martin Venhart, PhD.		TV	Martin Venhart o histórii Nobelovej ceny	TA3	19.7.2018
Mgr. Martin Venhart, PhD.		RO	Martin Venhart: portrét	Rádio Regina	20.4.2018
Mgr. Martin Venhart, PhD.		PB	Mladá nádej slovenskej vedy: Sága prvého slovenského experimentu v CERNe	Kongresové centrum SAV, Smolenice	28.6.2018
Mgr. Martin Venhart, PhD.		PB	Prešovská vedecká kaviareň: Aký tvar majú atómové jadrá	Prešov	29.11.2018
Mgr. Martin Venhart, PhD.		IN	Slovák v CERNe: Máme ľudí, ktorí dokážu viesť experimenty	www.sme.sk	10.8.2018
Mgr. Martin Venhart, PhD.		PB	Spektrometer TATRA v CERNe	Gymnázium Cyrila Daxnera vo Vranove nad Topľou	8.3.2018
Mgr. Martin Venhart, PhD.		RO	Veda pri víne #3	Trnavské rádio	21.12.2018
Mgr. Martin Venhart, PhD.		PB	Víkend so SAV: Aký tvar majú atómové jadrá	Primaciálne námestie Bratislava	7.11.2018
Mgr. Martin Venhart, PhD.	Matúš Balogh	RO	Veda SK: Bojíme sa fyziky? Ako objavovať jej tajomstvá?	Rádio Slovensko	24.3.2018
Mgr. Andrej Gendiar, PhD.		PB	Noc výskumníkov – Kvantové technológie pre Každého	www.nocvyskumniko v.sk	0
Ing. Yuriy Halahovets, PhD.	P. Siffalovic, M. Bodik, J. Hagara, N. Mrkvikova, A. Annusova, A. Kalosi, A. Brunova	PB	Noc výskumníkov	Stara Tržnica, Bratislava	1
RNDr. Nad'a Mrk'vková, PhD.	J. Hagara, M. Bodik, Y. Halahovets, P. Siffalovic, A. Kalosi, A. Annusova, J. Ivanco, V. Nadazdy, P. Nadazdy, A. Brunova	iné	Noc výskumníkov 2018	Bratislava	1

Doc. RNDr. Martin Plesch, PhD.	Doc. František Kundracík a ďalší	iné	Turnaj mladých fyzikov	www.tmfsrc.sk	7
Doc. RNDr. Martin Plesch, PhD.	František Kundracík, Martin Chudiak	iné	Olympiáda mladých vedcov	www.ijso.sk	5

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