

Fyzikálny ústav SAV



**Správa o činnosti organizácie SAV
za rok 2017**

Bratislava
január 2018

Obsah osnovy Správy o činnosti organizácie SAV za rok 2017

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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: Mgr. Martin Veselský, PhD.

Predseda snemu SAV: RNDr. Katarína Gmucová, CSc.

Člen snemu SAV: Mgr. Martin Venhart, PhD.

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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			
Celkový počet zamestnancov	117	92	25	25	6	113	85,18	65,92
Vedeckí pracovníci	75	67	8	10	4	72	63,68	61,68
Odborní pracovníci VŠ (výskumní a vývojoví zamestnanci ¹)	21	17	4	15	2	21	5,24	4,24
Odborní pracovníci VŠ (ostatní zamestnanci ²)	6	0	6	0	0	5	4,13	0
Odborní pracovníci ÚS	15	8	7	0	0	15	12,13	0
Ostatní pracovníci	0	0	0	0	0	0	0	0

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

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

K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2017 (uvádzať zamestnancov v pracovnom pomere, vrátane riadnej materskej dovolenky, zamestnancov pôsobiach v zahraničí, v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiach v zastupiteľských zboroch)

F – fyzický stav zamestnancov k 31.12.2017 (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 31.12.2017)

Rodová skladba	Pracovníci s hodnosťou				Vedeckí pracovníci v stupňoch		
	DrSc.	CSc./PhD.	prof.	doc.	I.	II.a.	II.b.
Muži	14	51	4	3	15	30	22
Ženy	1	7	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
Muži	18	8	12	8	1	4	12	6	10
Ženy	1	4	3	0	0	0	0	2	1

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2017

	Kmeňoví zamestnanci		Vedeckí pracovníci		Riešitelia projektov	
	A	B	A	B	A	B
Muži	47,5	50,8	49,6	49,4	45,3	49,0
Ženy	47,4	48,8	44,6	45,2	42,2	44,6
Spolu	47,5	50,3	49,0	49,0	44,9	48,5

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.)

Vedecká rada Fyzikálneho ústavu SAV pracuje v obsadení:

Interní členovia: Mgr. Andrej Gendiar, PhD.; Ing. Ján Ivančo, PhD.; Ing. Matej Jergel, DrSc.;

RNDr. Marián Krajčí, DrSc.; RNDr. Igor Matko, CSc. a Mgr. Martin Venhart, PhD.

Externí členovia: prof. RNDr. Tibor Hianik, DrSc. (FMFI UK); prof. Ing. Jozef Janovec, DrSc. (UVP STU) a prof. Ing. Vladimír Nečas, PhD. (FEI STU).

Predsedom VR je Mgr. Martin Veselský, PhD. a podpredseda doc. Mgr. Mário Ziman, PhD.

2. Vedecká činnosť

2.1. Domáce projekty

Tabuľka 2a Domáce projekty riešené v roku 2017

ŠTRUKTÚRA PROJEKTOV	Počet		Čerpané financie (€)					
	A	B	A				B	
			Zo zdrojov SAV		Z iných zdrojov		Zo zdrojov SAV	Z iných zdrojov
			Spolu	Pre organizáciu	Spolu	Pre organizáciu		
1. Projekty VEGA	20	4	159086	152105	-	-	7988	-
2. Projekty APVV	12	8	-	-	392718	366598	-	120432
3. Projekty OP ŠF	0	0	-	-	-	-	-	-
4. Projekty SASPRO	4	0	207333	207333	20766	20796	-	-
5. Projekty centier excelentnosti SAV	0	0	-	-	-	-	-	-
6. Iné projekty (FM EHP, ŠPVV, Vedecko-technické projekty, ESF, na objednávku rezortov a pod.)	0	0	-	-	-	-	-	-

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

Tabuľka 2b Domáce projekty podané v roku 2017

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2017	Bratislava	3	3
2. Projekty výziev OP ŠF podané r. 2017	Bratislava		
	Regióny		

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2017

Tabuľka 2c Medzinárodné projekty riešené v roku 2017

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 7. RP EÚ a Horizont 2020	0	3	-	-	-	-	12500	152990
2. Projekty ERA.NET, ESA, JRP	0	1	-	-	-	-	25000	-
3. Projekty COST	2	4	6300	6300	-	-	8663	-
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	3	0	25000	25000	2500	2500	-	-
5. Projekty v rámci medzivládnych dohôd	0	5	-	-	-	-	-	123896
6. Bilaterálne projekty MAD	2	0	-	-	-	-	-	-
7. Bilaterálne projekty ostatné	1	0	-	-	-	-	-	-
8. Podpora MVTS z národných zdrojov (SAV, APVV a iné)	1	2	2083	2083	-	-	7718	-
9. Iné projekty	0	1	-	-	-	-	-	-

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

2.2.2. Medzinárodné projekty Horizont 2020 podané v roku 2017

Tabuľka 2d Počet projektov Horizont 2020 v roku 2017

	A	B
Počet podaných projektov Horizont 2020	6	

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

V prípade vypísania novej výzvy Výskumnej agentúry pre podporu vedeckých parkov a výskumných centier zamýšľame podať nový projekt pre integráciu infraštruktúry v rámci výskumného centra Allegro na detašovanom pracovisku v Piešťanoch. Projekt bude zameraný na doplnenie infraštruktúry získaných v predchádzajúcich projektoch tak, aby celok mohol významným spôsobom prispieť k fyzikálnym výsledkom potrebným pre realizáciu projektu experimentálneho rýchleho reaktora Allegro, ktorý sa pripravuje v rámci spolupráce krajín V4 a Francúzska.

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: Počítačové simulácie pre AFM techniky pre zobrazovanie a manipuláciu: od subatomárnej po mezoskopickú úroveň

Riešitelia: I. Štich a kol.

Súbor prác ukazuje ako je možné použiť atomárny silový mikroskop na najširšej dĺžkovej škále na štúdium povrchov a rozhraní. V prvej práci [1] sme použili bezkontaktný AFM (NCAFM) a vôbec po prvýkrát ukázali, ako je pomocou NCAFM možné zmerať na subatomárnej škále vektorové veličiny. Kombinácia experimentov a DFT simulácií tiež ukázala, ako je možné v prípade zmapovania vektorových veličín experimentálne určiť absolútnu výšku apexu hrotu nad vzorkou. V druhej práci [2] sme použili statický AFM na štúdium štrukturálnej superlubricity. Nekomenzurabilné povrchy by na nanoškále mali teoreticky vykazovať tzv. štrukturálnu superlubricitu, t.j. translačný pohyb bez merateľného trenia. Vskutku takýchto systémov bolo v posledných rokoch zdokumentovaných viac. V práci sme porovnávali sily trenia nanočastíc antimónu na grafit a MoS₂ a zistili, že na grafit boli všetky nanočastice v superlubrickom stave, kdežto na MoS₂ boli superlubrické len relatívne malé nanočastice, kdežto veľké nanočastice s kontaktnou plochou > 15 000 nm² vykazovali "normálne" trenie a pomerne výraznú chemickú väzbu na substrát. Veľké nanočastice na MoS₂ sú totiž schopné emitovať dislokácie, ktoré umožnia aby nanočastica lokálne „zapadla do registra“. Toto je zásadne nové pozorovanie, ktoré významným spôsobom prepisuje teóriu štrukturálnej superlubricity.

1. Y. Naitoh, R. Turanský, J. Brndiar, Z.J. Li, I. Štich, and Y. Sugawara, Subatomic-scale force vector mapping above a Ge(001) dimer using bimodal atomic force microscopy, Nat. Phys. **13** (2017) 663.
2. D. Dietzel, J. Brndiar, I. Štich, and A. Schirmeisen, Limitations of Structural Superlubricity: Chemical Bonds versus Contact Size, ACS Nano **11** (2017) 7642.

Ďalej bez udania poradia:

Názov príspevku: Časovo-rozlíšené sledovanie dejov na povrchoch a rozhraniach pomocou RTG rozptylu

Riešitelia: P. Šiffalovič a kol.

RTG rozptyl umožňuje sledovanie rozloženia elektrónovej hustoty na povrchoch a v objeme vzorky blízko jej povrchu. V ostatnom období sme sa zamerali na rast kovov na graféne [1] a samoorganizáciu objemového heteroprieochodu v polymérnych solárnych článkoch [2].

Rast medi na graféne dobre popisuje ostrovčekový rast v dôsledku odlišnej povrchovej energie grafénu a medi. Analýza rozptylových máp umožnila sledovanie základných fáz pri raste medi na graféne ako sú nukleácia a rast klastrov, koalescencia a následná perkolácia a tvorba spojitých vrstiev. Určili sme prahy jednotlivých procesov a overili sme ich časové škálovanie.

Optimalizácia fázovej separácie donorových a akceptorových oblastí v objemovej heteroštruktúre polymérneho solárneho článku patrí k dôležitým krokom výroby polymérnych solárnych článkov. V uplynulom období sme sledovali samoorganizáciu heteroprieochodu na báze polythiofénu a fullerénu (P3HT:PCBM) pomocou rozptylu RTG lúčov. Vyhodnotením priebehu intenzity v reciprokom priestore sme pozorovali základné fázy samoorganizácie P3HT:PCBM. Scenár samoorganizácie môžeme rozdeliť na tri základné časti. V prvej fáze dochádza ku aglomerácii malých PCBM molekúl. V ďalšej dochádza ku postupnému pravidelnému prerozdeleniu domén bohatých na PCBM a P3HT. V poslednej fáze pozorujeme ku kryštalizácii P3HT polyméru.

1. Hodas M, Šiffalovič P, Jergel M, Pelletta M, Halahovets Y, Vegsö K, et al., Kinetics of copper growth on graphene revealed by time-resolved small-angle x-ray scattering. *Physical Review B - Condensed Matter and Materials Physics* **95(3)** (2017).
2. Vegsö K, Šiffalovič P, Jergel M, Nádaždy P, Nádaždy V, Majková E., Kinetics of Polymer-Fullerene Phase Separation during Solvent Annealing Studied by Table-Top X-ray Scattering. *ACS Applied Materials and Interfaces* **9(9)** (2017) 8241-8247.

Názov príspevku: Správne hodnoty väzbových konštánt SU(3) invariantného interakčného Lagranžianu nonetu vektorových mezónov s oktetom $1/2^+$ baryónov

Riešitelia: C. Adamuščin a kol.

V našej práci sme ukázali, ako využiť existujúcu experimentálnu informáciu o elektrických a magnetických formfaktoroch nukleónov, popísaných v rámci Unitárneho a Analytického modelu, na predpoveď numerických hodnôt väzbových konštánt f^F , f^D , f^S SU(3) invariantného interakčného Lagranžianu, ktorý popisuje vzájomnú interakciu nonetu vektorových mezónov s oktetom $1/2^+$ baryónov. Znalosť numerických hodnôt väzbových konštánt f^F , f^D , f^S umožňuje predpovedať správanie elektrických a magnetických formfaktorov $1/2^+$ oktetových hyperónov.

Počas vyhodnocovania hodnôt väzbových konštánt sme objavili doteraz nedoriešený problém omega-phi zmiešavania. So všeobecných predstáv sme ukázali, že existuje osem rôznych typov omega-phi zmiešavania, z ktorých iba štyri sú fyzikálne akceptovateľné. Vyriešenie tohto problému nám umožnilo jednoznačne určiť numerické hodnoty väzbových konštánt f^F , f^D , f^S , nezávisle od vybraného typu omega-phi zmiešavania.

1. C.Adamuščin, E.Bartoš, S.Dubnička and A.Z.Dubníčková, Numerical values of f^F , f^D , f^S coupling constants in SU(3) invariant interaction Lagrangian of vector-meson nonet with $1/2^+$ octet baryons, *Phys. Rev. C* **93**, No. 5 (2016) 055208.
2. C.Adamuščin, E.Bartoš, S.Dubnička and A.Z.Dubníčková, Erratum: Numerical values of the f^F , f^D and f^S coupling constants in SU(3) invariant Lagrangian of the interaction of the vector-meson nonets with $1/2^+$ octet baryons [*Phys. Rev. C* 93, 055208 (2016)], **arXiv:1706.05657** [hep-ph].
3. C.Adamuščin, E.Bartoš, S.Dubnička and A.Z.Dubníčková, The correct values of the f^F , f^D and f^S

coupling constants in SU(3) invariant interaction Lagrangian of the vector-meson nonet with $1/2^+$ octet baryons, Eur. Phys. J. A (R).

2.3.2. Aplikačný typ

1. miesto: Vysokovýkonná röntgenová optika pre metódu malouhlového rtg rozptylu pri šikmom dopade (GISAXS)

Riešitelia: M. Jergel a kol.

Pomocou simulácií metódou „ray tracing“ vychádzajúcich z dynamickej teórie rtg difrakcie bol navrhnutý a v spolupráci s firmou Integra, TDS, s.r.o., Piešťany, pripravený originálny monolitický rtg monochromátor Ge(111) pracujúci na princípe opakovanej asymetrickej difrakcie v kanáliku tvaru písmena V [1]. Originálnosť návrhu spočíva v spojení vysokej intenzity a vysokého kompresného pomeru výstupného rtg zväzku v jednom optickom prvku, čo umožňuje laboratórne merania malouhlového rtg rozptylu (SAXS) a SAXS pri šikmom dopade (GISAXS) s vysokou intenzitou a vysokým rozlíšením viacnásobne presahujúcim komerčné zariadenia. Tým sa otvára cesta k laboratórnym meraniam procesov na nanoškále v reálnom čase pomocou týchto metód, ktoré boli doteraz realizované výlučne na synchrotrónoch. Realizácia tohto monochromátora bola možná vďaka pilotnej aplikácii metódy nanoobrábania povrchov SPDT (single point diamond turning) známej z infračervenej optiky, ktorú v spolupráci s firmou Integra, TDS, s.r.o., Piešťany, prvýkrát implementujeme do oblasti rtg vlnových dĺžok [2].

1. K. Végső, M. Jergel, P. Šiffalovič, E. Majková, D. Korytár, Z. Zápražný, P. Mikulík, P. Vagovič: Towards High-Flux X-ray Beam Compressing Channel-Cut Monochromators, J. Appl. Cryst. **49** (2016), 1885-1892.

2. Z. Zápražný, D. Korytár, M. Jergel, P. Šiffalovič, Y. Halahovets: Nano-machining for Advanced X-ray Crystal Optics, AIP Conf. Proc. **1764** (2016), 020005.

2.3.3. Medzinárodné vedecké projekty

1. miesto: Experimentálne štúdium jadrovej štruktúry izotopov zlata

Riešitelia: M. Venhart a kol.

Súbor štyroch monotematických prác, ktoré boli vypracované v medzinárodnej kolaborácii a sú zamerané na experimentálne štúdium jadrovej štruktúry izotopov zlata. Experimenty boli realizované na zariadení ISOLDE v CERN a v cyklotrónovom laboratóriu Univerzity v Jyväskylä vo Fínsku, kde boli použité komplementárne metódy.

Experiment IS521, ktorý je v CERN historicky prvý pod slovenským vedením, študuje jadrovú štruktúru metódou beta premeny so simultánnou detekciou gama žiarenia a žiarenia konverzných elektrónov. Na to bolo potrebné vyvinúť páskový transportný systém, ktorý dokáže prepraviť vzorky rádioaktívnych izotopov ortuti z miesta ožiarenia na miesto detekcie. Systém TATRA bol vyvinutý na Fyzikálnom ústave SAV a pre účely experimentu bol transportovaný po zemi do CERN. Využíva kovové pásy pripravené na FÚ SAV, vďaka čomu dosahuje špičkové parametre čo sa týka vakuu a vo svojej triede vo svete nemá konkurenciu. Ako prvý na svete využil nový typ germániového detektora s veľmi vysokým rozlíšením čo umožnilo detailný pohľad do štruktúry jadra veľmi neutróno-deficitného izotopu ^{183}Au . Metodiku in-beam gamma spektroskopie bol pozorovaný nový rotačný pás v izotope ^{177}Au , ktorého prítomnosť nemôže byť vysvetlená súčasnými jadrovými modelmi. Naznačuje významnú zmenu vlastností páro-párnych jadier Hg ďaleko od línie stability. Experiment bol realizovaný v širokej medzinárodnej kolaborácii so veľkým zapojením špičkových teoretických skupín.

1. M. Venhart et al., De-excitation of the strongly coupled band in ^{177}Au and implications for core

intruder configurations in the light Hg isotopes, Phys. Rev. C **95**, 061302 (R).

2. V. Matoušek et al., TATRA: a versatile high-vacuum tape transportation system for decay studies at radioactive-ion beam facilities, Nucl. Instrum. and Methods in Phys. Res., Sect. A **812** (2016) 118.

3. M. Venhart et al., Application of the Broad Energy Germanium detector: A technique for elucidating β -decay schemes which involve daughter nuclei with very low energy excited states, Nucl. Instrum. and Methods in Phys. Res., Sect. A **849** (2017) 112.

4. M. Venhart et al., New systematic features in the neutron-deficient Au isotopes, J. Phys. G: Nucl. and Part. Phys. **44** (2017) 074003.

Ďalej bez udania poradia:

Názov príspevku: Štatistická mechanika coulombovských systémov

Riešitelia: L. Šamaj a kol.

Súbor deviatich prác v karentovaných medzinárodných časopisoch vznikol na základe medzinárodnej spolupráce skupiny L. Šamaja s E. Trizacom a M. Mazarsom z Univerzity Paris-Sud, M. Antlangerom a G. Kahlom z Technickej Univerzity vo Viedni, A.P. dos Santosom a Y. Levinom z Univerzity do Rio Grande de Sul v Brazílii a M. Trulssonom z Univerzity Lund vo Švédsku. Tematicky sú práce spojené s vyšetrovaním rovnovážnej termodynamiky systémov častíc, interagujúcich párovou coulombovskou interakciou, v blízkosti homogénne nabitých stien. Hlavný záujem je orientovaný na oblasť nízkych teplôt, kedy vznikajú rôzne anomálne javy ako je napr. efektívne priťahovanie rovnako nabitých makromolekúl. Numerické a analytické riešenie špeciálneho problému základného stavu systému nábojov pri nulovej teplote pri nábojovej asymetrii obmedzujúcich stien vedie k bohatému fázovému diagramu obsahujúcemu exotické fázy s pentagonálnou symetriou ako aj nesúmerateľné fázy s potenciálnou možnosťou kvázikryštálov.

1. L. Šamaj, E. Trizac: Poisson-Boltzmann thermodynamic of counter-ions confined by curved hard walls, Phys. Rev. E **93** (2016) 012601.

2. I. Travěnek, L. Šamaj: Separation of Wigner structures for two-dimensional equimolar binary mixtures of Coulomb particles, Phys. Rev. B **93** (2016) 104110.

3. L. Šamaj: Amplitude function of asymptotic correlations along charged wall in Coulomb fluids, J. Stat. Phys. **164** (2016) 304.

4. L. Šamaj, A.P. dos Santos, Y. Levin, E. Trizac: Mean-field beyond mean-field: the single particle view for moderately to strongly coupled charged fluids, Soft Matter **12** (2016) 8768.

5. M. Antlanger, G. Kahl, M. Mazars, L. Šamaj, E. Trizac: Polymorphic behavior of Wigner bilayers, Phys. Rev. Lett. **117** (2016) 118002.

6. L. Šamaj: Finite-size effects in non-neutral two-dimensional Coulomb fluids, J. Stat. Phys. **168** (2017) 434.

7. M. Trulsson, L. Šamaj, E. Trizac: Quasi-universality in mixed salt-free counter-ion systems, Europhys. Lett. **118** (2017) 16001.

8. I. Travěnek, L. Šamaj: Tricriticality for dimeric Coulomb molecular crystals in ground state, J. Phys. A: Math. Theor. **50** (2017) 485001.

9. M. Trulsson, E. Trizac, L. Šamaj: Planar screening by charge polydisperse counter-ions, J. Phys.: Condens. Matter (2017), accepted for publication.

Názov príspevku: Výpočty rozpadov ťažkých mezónov

Riešitelia: A. Liptaj a kol.

V rámci medzinárodnej spolupráce s prof. M. A. Ivanovom a jeho skupinou z Laboratória teoretickej fyziky v SÚJV Dubna boli dosiahnuté viaceré výsledky založené na výpočtoch v rámci tzv. kovariantného kvarkového modelu. Tento model spočíva na invariantnom nelokálnom

Lagranžiáne a popisuje prechod študovaného hadrónu na jeho valenčné kvarky. Takýto model dovoľuje, okrem iného, zahrnutie hadronických korekcií pre prípady rozpadov ťažkých mezónov. Hadronické efekty súvisia s uväznením kvarkov v hadrónoch a v súčasnosti sa nevedia určiť modelovo nezávislým spôsobom (t.j. z prvých princípov). Výpočty rozpadov ťažkých mezónov sú nanajvýš aktuálnou a dôležitou témou v rámci časticovej fyziky z dvoch príčin: teoretickou príčinou je fakt, že mnohé modely za Štandardným modelom predpovedajú objavenie novej fyziky práve v takýchto typoch rozpadov. Druhou príčinou je skutočnosť, že práve súčasné urýchľovače umožňujú tieto zriedkavé procesy zmerať a v niektorých prípadoch stanoviť aj uhlové rozdelenia. Použitie kovariantného kvarkového modelu dovoľuje overiť súlad meraní s predpoveďami Štandardného modelu. Spolupráca je zastrešená spoločným projektom medzi FÚ SAV a BLTF SÚJV Dubna.

1. S. Dubnička et al, Study of B_c decays into charmonia and D mesons, Phys. Rev. **D 96**, No. 7 (2017) 076017.
2. S. Dubnička et al., Description of Hadronic Effects in Weak Decays of Beauty Mesons Using Covariant Quark Model, Acta Phys. Polon. Supp. **9** (2016) 575-581.
3. A. Liptaj et al., Selected decays of heavy hadrons in Covariant quark model, PoS EPS-HEP2015 (2015) 471.
4. S. Dubnička et al., Decay $B_s \rightarrow \phi^{+-}$ in covariant quark model, Phys. Rev. **D93**, No. 9 (2016) 094022.
5. A. Liptaj et al., $B \rightarrow K(^*)\mu^+\mu^-$ in covariant quark model, Int. J. Mod. Phys. Conf. Ser. **39** (2015) 1560113.
6. S. Dubnička et al., Decay $B \rightarrow K^*(\rightarrow K\pi)l^+l^-$ in Covariant Quark Model, Few Body Syst. **57**, No. 2 (2016) 121-143.

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

Tabuľka 2e Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	Počet v r. 2017/ doplňky z r. 2016
1. Vedecké monografie a monografické štúdie vydané v domácich vydavateľstvách (AAB, ABB)	0 / 0
2. Vedecké monografie a monografické štúdie vydané v zahraničných vydavateľstvách (AAA, ABA)	0 / 0
3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané v domácich vydavateľstvách (BAB, ACB, CAB)	0 / 0
4. Odborné monografie a vysokoškolské učebnice a učebné texty vydané v zahraničných vydavateľstvách (BAA, ACA, CAA)	0 / 0
5. Kapitoly vo vedeckých monografiách vydaných v domácich vydavateľstvách (ABD)	0 / 0
6. Kapitoly vo vedeckých monografiách vydaných v zahraničných vydavateľstvách (ABC)	0 / 0
7. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v domácich vydavateľstvách (BBB, ACD)	0 / 1
8. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v zahraničných vydavateľstvách (BBA, ACC)	0 / 0
9. Vedecké práce registrované v Current Contents Connect (ADCA, ADCB, ADDA, ADDB)	83 / 2
10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus (ADMA, ADMB, ADNA, ADNB)	16 / 0
11. Vedecké práce v ostatných domácich časopisoch (ADFA, ADFB)	5 / 0
12. Vedecké práce v ostatných zahraničných časopisoch (ADEA, ADEB)	3 / 0
13. Vedecké práce v domácich recenzovaných zborníkoch (AEDA)	0 / 0
14. Vedecké práce v zahraničných recenzovaných zborníkoch (AECA)	2 / 0
15. Publikované príspevky na domácich vedeckých konferenciách (AFB, AFD)	17 / 0
16. Publikované príspevky na zahraničných vedeckých konferenciách (AFA, AFC)	11 / 0
17. Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS	0
18. Ostatné vydané periodiká	0
19. Zostavovateľské práce knižného charakteru (FAI)	2 / 0
20. Preklady vedeckých a odborných textov (EAJ)	0 / 0
21. Heslá v odborných terminologických slovníkoch a encyklopédiách (BDA, BDB)	0 / 0
22. Recenzie v časopisoch a zborníkoch (EDI)	0 / 0

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

Tabuľka 2f Štatistika vedeckých prác podľa kvartilu vedeckého časopisu

Kvartil vedeckého časopisu	Q1	Q2	Q3	Q4	Spolu
Podľa IF z r. 2016 (zdroj JCR) <i>Počet článkov / doplnky 2015</i>	44 / 1	25 / 0	7 / 0	9 / 1	85 / 2
Podľa SJR z r. 2016 (zdroj Scimago) <i>Počet článkov / doplnky 2015</i>	58 / 1	14 / 0	20 / 1	0 / 0	92 / 2

Tabuľka 2g Ohlasy

OHLASY	Počet v r. 2016/ doplnky z r. 2015
Citácie vo WOS (1.1, 2.1)	2592 / 0
Citácie v SCOPUS (1.2, 2.2)	24 / 1
Citácie v iných citačných indexoch a databázach (9, 10, 3.2, 4.2)	2 / 0
Citácie v publikáciách neregistrovaných v citačných indexoch (3, 4, 3.1, 4.1)	18 / 2
Recenzie na práce autorov z organizácie (5, 6, 7, 8)	0 / 0

2.5. Aktívna účasť na vedeckých podujatiach

Tabuľka 2h Vedecké podujatia

Prednášky a vývesky na medzinárodných vedeckých podujatiach	89
Prednášky a vývesky na domácich vedeckých podujatiach	5

2.6. Vyžiadané prednášky

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

Ing. Vlastimil Boháč, CSc.

29. — 31. 5. 2017, Measurement, 11th International Conference, Smolenice, Slovensko, „Thermal Properties of Materials and their Characterization by Classic and Transient Methods“

Mgr. Ján Brndiar, PhD.

17. — 19. 1. 2017, 2nd international symposium on „Recent Trends in Analysis Techniques for Functional Materials and Devices“, Osaka, Japonsko, „Nanotribology and structural superlubricity on nanoscale“

Ing. Matej Jergel, DrSc.

16. — 18. 3. 2017, BIT's 3rd Annual World Congress and EXPO of Smart Materials-2017, Bangkok, Thajsko, „Polymer-fullerene Phase Separation During Solvent Annealing Studied In-situ by Laboratory-based X-ray Scattering“

24. — 26. 10. 2017, BIT's 7th Annual World Congress of Nano Science & Technology, Fukuoka, Japonsko, „Tracking of Nanostructure Formation by Time-Resolved Laboratory Small-Angle X-ray Scattering“

RNDr. Eva Majková, DrSc.

18. — 21. 9. 2017, EMRS Fall Meeting Varšava, Poľsko, „Time-resolved GIWAXS studies of the organometallic perovskite layer structure annealed at various temperatures correlated with DOS mapping by ER EIS“

13. — 17. 11. 2017, ICTF 17, International Conference on Thin Films 2017, New Delhi, India, „Kinetics of thin films growth studied by time-resolved small-angle x-ray scattering“
20. 11. 2017, 17 Energy Conversion Symposium, Chung Ang University, Seoul, Korea, „Nanofilms composed of 2D nanosheets“

21. — 24. 11. 2017, 4th International Conference on Advanced Electromaterials, ICEA 2017, Jeju, Korea, „Nanofilms composed of 2D nanosheets: formation, properties and applications“
4th Korea – EU Bilateral Workshop on Advanced Materials processing, Jeju, Korea, „Time-resolved GIWAXS Studies of the CH₃NH₃PbI₃ xClx Layer Structure Correlated with Photoluminescence and DOS Mapping“

RNDr. Ľubomír Martinovič, CSc.

18. — 12. 9. 2017, Light Cone 2017, Mumbai, India, „The Schwinger model: operator solutions and a genuine light-front treatment“
10. — 14. 7. 2017, Symmetry Methods in Physics, Jerevan, Armensko, „Massless light-front fields and conformal symmetry in two dimensions“

prof. Ing. Štefan Luby, DrSc.

3. 3. 2017, Symposium Nanotechnology, European Academy of Sciences and Arts, Salzburg, Austria, „Brief history and foresight in nanoscience and nanotechnology“
14. — 18. 9. 2017, 9th Olympiad of the Mind, Kolympari, Crete, Greece, „Nanoethics – a way o humanization of technology for the common benefit“

RNDr. Daniel Reitzner, PhD.

28. 8. — 1. 9. 2017, Quantum Incompatibility 2017 Workshop, Maria Laach, Nemecko, „Incompatibility of unbiased qubit observables and Pauli channels“

prof. Ing. Ivan Štich, DrSc.

17. — 19. 1. 2017, 2nd international symposium on „Recent Trends in Analysis Techniques for Functional Materials and Devices“, Osaka, Japonsko, „Atomic Force Microscopy Manipulation of Magnetic Atoms on a Surface“
3. 3. 2017, European Academy of Sciences and Arts(EASA), Symposium Nanotechnology, Salzburg, Rakúsko, „Atom by atom“
7. — 9. 12. 2017, The 25th International Colloquim on Surface Probe Microscopy, Atagawa Heights, Shizuoka, Japonsko, „SPM techniques for atomic- and subatomic-scale imaging and manipulation“

Ing. Peter Švec, DrSc., Ing. Peter Švec ml., PhD. (prednášateľ I. Škorvanek z ÚEF SAV)

18. — 23. 6. 2017, 24th International Symposium on Metastable, Amorphous and Nanostructured Material, San Sebastián - Donostia, Španielsko, „Rapidly quenched amorphous and nanocrystalline bilayers for sensor applications“
10. — 13. 12. 2017, 4th International Symposium on Advanced Magnetic Materials and Applications, Phu Quoc, Vietnam, „Rapidly quenched amorphous and nanocrystalline bilayer ribbons with tailorable soft magnetic properties“

Ing. Peter Švec ml., PhD.

27. 8. — 1. 9. 2017, Intl. Conf. Rapidly Quenched and Metastable Materials (RQ16), Leoben, Rakúsko, „Advanced Structure Analysis of Hard Magnetic Al-Mn Alloys“

RNDr. Kamil Tokár, PhD.

27. — 31. 8. 2017, International Symposium Dynamical Properties of Solids 36 (DyProSo 2017), Cracow, Poland, „Control of vibrational properties of multilayer phosphorene“

Mgr. Martin Venhart, PhD.

23. — 27. 10. 2017, CEA Saclay, Paris, Francúzsko, „TATRA decay station at ISOLDE and shape coexistence in odd-mass Au nuclei“

2.6.2. Vyžiadané prednášky na domácich vedeckých podujatiach

prof. Ing. Štefan Luby, DrSc.

29. — 31. 5. 2017, Letná škola vákuovej techniky, Česká a Slovenská vákuové spoločnosti, Topoľčianky, SR, „Grafén – člen rodiny uhlíkových materiálov“

22. — 23. 6. 2017, XXX DidMatTech 2017, Trnavská univerzita v Trnave, „Humour in Science“

21. — 23. 9. 2017, Int. Conf. Physics, Technology and Ethics, University of Zilina, Zilina, SR, „Ethical challenges in nanometrology“

27. – 28. 9. 2017, konf. História, súčasnosť a budúcnosť elektrotechniky na Slovensku, Banská Štiavnica, SR, „Tranzistor – mikroelektronika – nanoelektronika – globálne súvislosti“

10. 10. 2017, Národná konferencia Etické problémy vo vede a technológiách. Slovenský výbor pre bioetiku - UNESCO, MZV SR, Bratislava, SR, „Nanoetika“

Ing. Peter Švec, DrSc., Ing. Peter Švec ml., PhD. (prednášateľ I. Škorvanek z ÚEF SAV)

4. — 7. 9. 2017, 19. konferencia českých a slovenských fyzikov, Prešov, Slovensko, „Soft Magnetic Nanocomposites For Sensor Applications“

Mgr. Martin Venhart, PhD.

4. — 7. 9. 2017, 19. konferencia českých a slovenských fyzikov, Prešov, Slovensko, „Spektrometer TATRA v CERN: štúdium štruktúry atómových jadier zlata“

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

RNDr. Ľubomír Martinovič, CSc.

8. 2. 2017, BLTP, JINR, Dubna, „Light Cone 2016 conference and a fresh look at exactly solvable relativistic models“

Mgr. Michal Sedlák, PhD.

29. 3. 2017, Institut für Theoretische Physik, Universität Innsbruck, Rakúsko, „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 2017

2.7.1. Vynálezy, na ktoré bol udelený patent

2.7.2. Prihlásené vynálezy

Na Slovensku - počet patentov: 1

Číslo PV: 117-2017

Mená autorov: Šauša Ondrej, Švajdlenková Helena

Názov vynálezu: Komôrka na štúdium fotopolymerizácie metódou pozitronovej anihilácie

Majiteľ / spolumajiteľ: Ústav polymérov SAV; Fyzikálny ústav SAV

Proces podávania patentovej prihlášky je v procese:

Mená autorov: Pareshkumar Manharbhai Prajapati, Venhart Martin, Bruncko Jaroslav

Názov vynálezu: Pulsed laser welding of ultra-thin Havar foil on vacuum flange

Budúci majiteľ / spolumajiteľ: Medzinárodné laserové centrum; Fyzikálny ústav SAV

Mená autorov: Filip Peter, Pivarč Juraj, Petráček Vojtech

Názov vynálezu: Zmena polčasu rozpadu jadier v nanočasticách za podmienok fázového prechodu

Budúci majiteľ / spolumajiteľ: ČVUT Praha; Fyzikálny ústav SAV

2.7.3. Predané licencie

2.7.4. Realizované patenty

Finančný prínos pre organizáciu SAV v roku 2017 a súčet za predošlé roky sa neuvádzajú, ak je zverejnenie v rozpore so zmluvou súvisiacou s realizáciou patentu.

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

Tabuľka 2i Experti hodnotiaci národné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Bartoš Erik	VEGA	1
Boháč Vlastimil	VEGA	1
Butvinová Beata	VEGA	1
Gmuca Štefan	APVV	1
	VEGA	2
Jergel Matej	APVV	2
Olejník Štefan	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
Bartoš Erik	0	0	1	0	0	0	0
Běták Emil	0	0	1	0	0	0	0
Boháč Vlastimil	0	0	2	0	0	0	3
Butvinová Beata	0	0	1	0	0	0	0
Filip Peter	0	0	0	1	0	0	0
Gendiar Andrej	0	0	7	0	0	0	0
Gmuca Štefan	0	0	2	0	0	2	0
Gmucová Katarína	0	0	2	0	2	0	0
Ivančo Ján	0	0	1	0	0	0	0
Jergel Matej	0	0	3	0	2	0	0
Kalinay Pavol	0	0	7	0	0	0	0
Luby Štefan	0	0	0	0	4	0	0
Majková Eva	0	0	5	0	6	0	0
Martinovič Lubomir	0	0	2	0	0	0	0
Matoušek Vladislav	0	0	3	0	0	0	0
Nagaj Daniel	0	0	13	0	10	0	0
Olejník Štefan	0	0	0	0	1	0	0
Plesch Martin	0	0	14	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	3	0	0	0	0
Rybár Tomáš	0	0	1	0	0	0	0
Sedlák Michal	0	0	5	0	0	0	0
Šamaj Ladislav	0	0	6	0	0	0	0
Šauša Ondrej	0	0	1	0	0	0	0
Šiffalovič Peter	0	0	3	0	0	0	0
Štich Ivan	0	0	8	0	0	0	0
Švec Peter	0	0	3	0	0	3	2
Ziman Mário	0	0	14	0	0	0	0
Spolu	0	0	116	1	25	5	5

2.11. Iné informácie k vedeckej činnosti.

Akreditácia – hodnotenie ústavu nezávislou komisiou a jej výsledky mali významný dopad na zámery a činnosť ústavu. Ústav bol hodnotený v kategórii B – Výskum viditeľný na európskej úrovni. Vo výsledkoch vedeckej práce dosiahol ústav dobré výsledky, horšie hodnotenie získal v oblasti sociálneho, ekonomického a kultúrneho dopadu.

Odporúčania medzinárodného panelu boli spracované a zahrnuté do akčného plánu Fyzikálneho ústavu. Jedným z odporúčaní bolo vytvoriť medzinárodný poradný zbor. Členovia tohto zboru boli navrhnutí jednotlivými oddeleniami, niektorí boli už kontaktovaní a jeden súhlasil s členstvom. Termín pre vytvorenie medzinárodného poradného zboru bol určený na jún 2018.

Ako jednou z reakcií na výsledky akreditácie sme v dňoch 5. – 6. decembra 2017 zorganizovali Výročný seminár, ktorý sa konal v Kongresovom center SAV v Smoleniciach. Cieľom seminára bolo priblížiť prácu a výsledky jednotlivých oddelení ostatným pracovníkom ústavu a vyhodnotiť najvýznamnejšie výsledky ústavu v roku 2017. Každé oddelenie prezentovalo svoju prácu a dosiahnuté výsledky v niekoľkých prednáškach. Počas prednášok boli navrhnuté aj práce resp. súbory prác do hodnotenia najvýznamnejších výsledkov. Hodnotenie najvýznamnejších výsledkov bolo organizované vedeckou radou, ktorá po skončení prezentácii na neverejnom zasadnutí určila najvýznamnejšie výsledky ústavu. Časť programu bola venovaná aj problematike transformácie ústavu na VVI, ktorá sa uskutoční v roku 2018. Výročný seminár možno ohodnotiť ako veľmi úspešné podujatie, ktoré umožnilo získať podrobnejšie informácie o práci jednotlivých oddelení. Výročný seminár plánujeme organizovať každý rok, program pravdepodobne rozšírime o hodnotenie pracovníkov.

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 2017

Forma	Počet k 31.12.2017						Počet ukončených doktorandúr v r. 2017					
	Doktorandi						Ukončenie z dôvodov					
	celkový počet		z toho novoprijatí		po skúške		ukončenie úspešnou obhajobou		predčasné ukončenie		neúspešné ukončenie	
	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž
Denná zo zdrojov SAV	15	2	4	0	7	1	2	0	0	0	0	0
Denná z iných zdrojov	0	0	0	0	0	0	0	0	0	0	0	0
Externá	2	0	0	0	1	0	0	0	0	0	0	0
Spolu	17	2	4	0	8	1	2	0	0	0	0	0
Súhrn	19		4		9		2		0		0	

Uvádzať 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 2017 úspešnou obhajobou

Meno doktoranda	Forma DŠ	Mesiac, rok nástupu na DŠ	Mesiac, rok obhajoby	Číslo a názov študijného odboru	Meno a organizácia školiteľa	Fakulta udeľujúca vedeckú hodnosť
Mgr. Michal Daniška	interné štúdium hradené z prostriedkov SAV	9 / 2011	1 / 2017	4.1.2 všeobecná fyzika a matematická fyzika	Mgr. Andrej Gendiar PhD., Fyzikálny ústav SAV	Fakulta matematiky, fyziky a informatiky UK
Mgr. Juraj Zigo	interné štúdium hradené z prostriedkov SAV	9 / 2013	9 / 2017	4.1.3 fyzika kondenzovaných látok a akustika	Ing. Peter Švec DrSc., 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	4

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	Fakulta matematiky, fyziky a informatiky UK
kvantová elektronika a optika	4.1.4	Fakulta matematiky, fyziky a informatiky UK
jadrová a subjadrová fyzika	4.1.5	Fakulta matematiky, fyziky a informatiky UK
fyzikálne inžinierstvo	5.2.48	Fakulta elektrotechniky a informatiky STU

Tabuľka 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)	
Doc. RNDr. Emil Běták, DrSc. (jadrová a subjadrová fyzika)	Prof. RNDr. Vladimír Bužek, DrSc. (Fakulta matematiky, fyziky a informatiky UK)	
Doc. RNDr. Emil Běták, DrSc. (odbor v zahraničí)	Prof., Ing. Štefan Luby, DrSc. (Alma Mater Europaea Ascoli Piceno, Taliansko)	
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)		
Mgr. Andrej Gendiar, PhD. (všeobecná fyzika a matematická fyzika)		

Mgr. Andrej Gendiar, PhD. (všeobecná fyzika a matematická fyzika)		
Ing. Štefan Gmuca, CSc. (jadrová a subjadrová fyzika)		
Ing. Matej Jergel, DrSc. (fyzika kondenzovaných látok a akustika)		
Ing. Matej Jergel, DrSc. (kvantová elektronika a optika)		
Ing. Matej Jergel, DrSc. (fyzikálne inžinierstvo)		
RNDr. Pavol Kalinay, CSc. (všeobecná fyzika a matematická fyzika)		
Ing. Štefan Lányi, DrSc. (elektronika)		
RNDr. Eva Majková, DrSc. (kvantová elektronika a optika)		
RNDr. Eva Majková, DrSc. (fyzikálne inžinierstvo)		
RNDr. Štefan Olejník, DrSc. (všeobecná fyzika a matematická fyzika)		
RNDr. Štefan Olejník, DrSc. (jadrová a subjadrová fyzika)		
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 2017

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	5	1	1	1
Celkový počet hodín v r. 2017	120	26	8	52

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

Tabuľka 3h Aktivity pracovníkov na VŠ

1.	Počet pracovníkov, ktorí pôsobili ako vedúci alebo konzultanti diplomových a bakalárskych prác	7
2.	Počet vedených alebo konzultovaných diplomových a bakalárskych prác	11
3.	Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)	7
4.	Počet školených doktorandov (aj pre iné inštitúcie)	16
5.	Počet oponovaných dizertačných a habilitačných prác	14
6.	Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce	7
7.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác	1
8.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác	11
9.	Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti v inauguračnom alebo habilitačnom konaní na vysokých školách	1

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 2017 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

ISTROS 2017 – Isospin, STructure, Reactions and energy Of Symmetry, Častá-Papiernička, Slovensko, 14.05.-19.05.2017

Ďalšia v poradí medzinárodných konferencií ISTROS 2017 priniesla prehľad v aktuálnych výskumných aktivitách z oblasti jadrovej fyziky. Špecificky bola venovaná témam ako štúdium štruktúry ťažkých jadier, tvarovej koexistencii v atómových jadrách, produkcii neutrónovo-bohatých a super-ťažkých jadier, reakciám na zväzkoch zriedkavých izotopov a skúmaniu jadrových rovníc pre symetrickú energiu spojenú s asymetriou obsahu nukleónov v jadrách.

Úspešné medzinárodné podujatie poskytlo slovenským fyzikom možnosť na diskusie a rozvoj spolupráce na bežiacich ako aj nových projektoch.

CEQIP 2017 – Central European Quantum Information Processing, Smolenice, Slovensko, 58 účastníkov, 31.05.-03.06.2017

CEQIP'17 bola v poradí 14. 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.

APCOM 2017 – Applied Physics of Condensed Matter, Štrbské Pleso, Slovensko, 12.06.-14.06.2017

APCOM 2017 bola v poradí 23. 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.

5th Progress in Applied Surface, Interface and Thin Film Science - Solar Renewable Energy News SURFINT-SREN V, Florencia, Taliansko, 20.11.-23.11.2017

V spolupráci s partnermi z Univerzity Komenského a Žilinskej Univerzity sa uskutočnila 5. konferencia SURFINT-SREN V. 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. Rozsah tém konferencie je širokospektrálny, od základného výskumu vykonávaného na sub-atómovej a kvantovej úrovni k výrobe zariadení postavených na nových fyzikálnych princípoch. Témy konferencie zahŕňajú aj prezentácie nových zariadení v nasledujúcich oblastiach: solárne články, displeje z tekutých kryštálov, vysokoteplotné supravodivosť a senzory. Počas akcie je osobitná pozornosť venovaná hodnoteniu vedeckej a technickej úrovne prác pripravených PhD študentmi.

4.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2018 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

CEQIP 2018 – Central European Quantum Information Processing/CEQIP 2018 – Central European Quantum Information Processing, Smolenice, Slovensko, 13.06.-16.06.2018, (Mário

Ziman, 02/209107 kl. 04, mario.ziman@savba.sk)

APCOM 2018 – Applied Physics of Condensed Matter/APCOM 2018 – Applied Physics of Condensed Matter, Štrbské Pleso, Slovensko, 20.06.-22.06.2018, (Peter Švec, [59410] 561, 562, 570, 582, peter.svec@savba.sk)

4.1.3. Počet pracovníkov v programových a organizačných výboroch medzinárodných konferencií

Tabuľka 4a Programové a organizačné výbory medzinárodných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Balogh Matúš	0	1	0
Boháč Vlastimil	2	0	0
Klimo Jozef	0	1	0
Majková Eva	1	0	0
Prajapati Pareshkumar Manharbhai	0	1	0
Reitzner Daniel	0	0	1
Repko Anton	0	1	0
Sedlák Matúš	0	1	0
Šauša Ondrej	0	0	1
Švec Peter	2	0	0
Urban Róbert	0	1	0
Venhardt Martin	0	1	0
Veselský Martin	0	0	1
Ziman Mário	0	0	1
Spolu	5	7	4

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, PhD.

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

Ing. Matej Jergel, DrSc.

Česko-Slovenská kryštalografická spoločnosť (funkcia: člen, 1996-2002 člen Rady)
European Academy of Sciences and Arts (funkcia: člen)
European Crystallographic Association (funkcia: individuálny člen)
Európska organizácia používateľov synchrotrónového žiarenia (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)

RNDr. Eva Majková, DrSc.

Academia Europea Scietiarum et Artium (funkcia: socius ordinarius)
ESUO Integrated Infrastructure Initiative (I3) "ELISA (funkcia: reprezentant SR)
International Union of Vacuum Science, Technology and Applications, IUVESTA, 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 Maťko, 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)

Ing. Vladimír Štofanič, PhD.

IEEE-UFFC (funkcia: člen)

URSI (funkcia: člen)

Ing. Peter Švec, DrSc.

Československá mikroskopická spoločnosť (funkcia: člen)

Intl. Advisory Committe on Rapid Quenching (funkcia: member)

IUPAP (funkcia: member, Comission C10 on Solid State Physics)

Ing Peter Švec Jr., PhD.

Československá mikroskopická spoločnosť (funkcia: člen výboru)

European Microscopy Society (funkcia: člen)

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

Tabuľka 4b Experti hodnotiaci medzinárodné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Běťák Emil	H2020-MSCA-IF-2017	2
Butvin Pavol	APVV SK-FR	1
Kalinay Pavol	Grantová agentúra Univerzity Karlovy	1
Plesch Martin	Erasmus	3
Švec Peter	H2020/FETOPEN	5

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

Najväčším prínosom spolupráce s veľkými výskumnými centrami (CERN-ISOLDE, iThemba Labs,

SÚJV Dubna, GSI-HADES, BNL-STAR) je prístup k veľkým experimentálnym zariadeniam, ktoré takmer žiadna európska krajina nedokáže financovať sama. Tieto spolupráce vznikli pred mnohými rokmi a úspešne sa dodnes rozvíjajú. Mierne negatívnym znakom takýchto spoluprác je vznik veľkých kolaborácií. Tieto kolaborácie majú však svoje opodstatnenie, nakoľko bez nich by nebolo možné uskutočniť experimenty fundamentálneho významu. Fyzikálny ústav sa v rámci svojich možností snaží aj v rámci medzinárodných kolaborácií presadzovať svoje vlastné záujmy a predstavy. Výsledkom tejto snahy sú navrhnuté vlastné experimenty v CERN, Švajčiarsko, kde sú naši pracovníci hovorcami a sú zodpovední za realizáciu experimentu.

V ďalšom sú uvedené spolupráce so zahraničnými laboratóriami:

1. MFF UK Praha a LTF SÚJV Dubna

Spolupráca v oblasti teoretickej jadrovej fyziky s Ústavom časticové a jaderné fyziky MFF UK Praha a Laboratóriom teoretickej fyziky SÚJV v Dubne je zameraná na teoretický popis excitovaných stavov deformovaných jadier pomocou metódy RPA. V rámci výskumu boli nedávno odvodené a naprogramované vylepšené metódy na popis toroidálnych excitácií a na odstránenie spurious stavov v excitačnom spektre. Výsledky výskumu sa pravidelne publikujú (1 – 2 články ročne v Phys.Rev.C, Eur.Phys.J.A a pod.) a boli prezentované na medzinárodných konferenciách (Ischia, Taliansko, Častá-Papiernička, Slovensko, Kazimierz Dolny, Poľsko).

2. iThemba Labs, Faure, Južná Afrika

V iThemba Labs prebehol experiment, v ktorom sa s použitím Ne zväzku študovali beta rozpady v ^{158}Er , resp. ^{160}Er a bol zrealizovaný pod vedením Dr. Roberta Barka. Išlo o prvý experiment, v ktorom sa použila nová pásková stanica skonštruovaná v iThemba LABS. Jej konštrukcia vychádza z páskového transportného systému TATRA spektrometra navrhnutého a zrealizovaného na OJF FÚ SAV. Naša pásková jednotka sa už osvedčila v experimentoch v CERN a preto logicky slúžila ako vzor pre podobnú páskovú stanicu v iThembe. Pásková jednotka, na rozdiel od našej, využíva širšiu polyetylénovú pásku s pomerne veľkou časťou dráhy prenosu implantovanej vzorky. Páska je rovnako ako naša spojená do nekonečnej slučky. Počas experimentu sme vyžili naše skúsenosti s prevádzkou páskového transportného systému. Na určité nedostatky, ktoré sa prejavili počas experimentu sme upozornili a navrhli možné riešenia. Údaje získané počas experimentu sa analyzujú.

3. Brookhaven National Laboratory, Brookhaven, USA

Medzinárodná experimentálna kolaborácia STAR pokračovala v priebehu roka 2017 v štúdiu vlastností extrémne horúcej expandujúcej partónovej hmoty, ktorá vzniká v zrážkach jadier zlata (Au+Au) na relativistickom urýchl'ovači RHIC (NY).

V rámci hľadania kritického bodu a jasných signatúr fázového prechodu jadrovej hmoty do partónového stavu sa analýzou experimentálnych údajov zo zrážok Au+Au pri nižších energiách (10-60 GeV/n) podarilo zmerať globálnu polarizáciu (veľkosti 2.5%) hyperónov Lambda a anti-Lambda, ktorá unikla pozornosti experimentátorov na urýchl'ovači SPS v CERN.

Výsledky získané na experimente STAR dokazujú, že v zrážkach jadier dochádza k preferenčnej orientácii spinov produkovaných častíc paralelne k smeru globálneho momentu hybnosti systému. To znamená, že silno interagujúca hustá hmota, vznikajúca v zrážkach jadier, má veľmi výrazné vírivé vlastnosti. Tieto výsledky umožňujú verifikáciu hydrodynamických modelov a simulácií partónovej (kvark-gluónovej) hmoty na kvantitatívnej úrovni, pomocou porovnania experimentálnych údajov s teoretickými výpočtami založenými na teórii silnej interakcie - Kvantovej chromodynamike (QCD).

Hydrodynamické vlastnosti partónovej hmoty sú veľmi zaujímavé, keďže sa očakáva, že obnovenie narušených symetrií v kvantovej chromodynamike bude viesť k novým javom práve v prítomnosti

vírivých procesov.

V roku 2017 pokračovala aj príprava detektora STAR k nameraniu chirálneho magnetického javu pomocou izobarických zrážok $^{96}\text{Ru}+^{96}\text{Ru}$ a $^{96}\text{Zr}+^{96}\text{Zr}$, ktoré sa majú na urýchľovači RHIC realizovať v roku 2018.

4. National Nuclear Data Center, BNL Brookhaven, USA a Nuclear Data Section, International Atomic Energy Agency, Viedeň, Rakúsko

V rámci neformálnej spolupráce sa podieľame na aktualizácii svetovej databázy jadrových údajov o jadrových reakciách indukovaných neutrónmi a nabitými časticami.

5. GSI Helmholtzzentrum für Schwerionenforschung GmbH, Darmstadt Nemecko

V rámci neformálnej spolupráce boli vykonané experimenty v zrážkach p+p pri energiách protónov 1.7 a 3.5 GeV. Pri energii 1.7 GeV bol študovaný vzácny proces Dalitzovho rozpadu rezonancie $\Delta^+ \rightarrow p e^+ e^-$ a bola po prvý krát určená pravdepodobnosť takéhoto rozpadu. Pri energii bola študovaná inkluzívna produkcie Λ hyperónu a bol určený účinný prierez tejto reakcie.

6. Institut für Angewandte Physik, Universität Tübingen, Nemecko

Spolupráca Oddelenia multivrstiev a nanoštruktúr v oblasti štúdia mechanizmov rastu vrstiev malých organických molekúl na dvojdimenzionálnych (2D) materiáloch v reálnom čase metódami veľko- a malouhlového rozptylu rtg žiarenia (GISAXS, GIWAXS). Pochopenie týchto mechanizmov je kľúčové pre vývoj nových prvkov organickej elektroniky ako napr. field-effect (FET) tranzistorov s vertikálnou architektúrou alebo organických solárnych článkov so zvýšenou absorpciou svetla. V r. 2017 boli vykonané experimenty GISAXS a GIWAXS počas rastu vrstiev molekúl pentacénu na graféne na zdrojoch synchrotrónového žiarenia ESRF v Grenobli a PETRA III v DESY Hamburg, a to na základe súťažne prideleného strojového času, ktorého kapacita nemôže uspokojiť všetkých žiadateľov. O kvalite dosiahnutých výsledkov svedčí, že na ich základe boli na r. 2018 pridelené strojové časy opäť v ESRF aj DESY a navyše aj na synchrotróne DIAMOND v Didcot, Anglicko. Výsledky boli spracované do spoločnej publikácie s nemeckým partnerom do ACS Nano (IF 2016 13,942), ktorá je pred odoslaním.

7. Spolupráca s významnými svetovými pracoviskami a Oddelením fyziky kovov (M. Mihalkovič)

- Prof. M. Widom, CMU, Pittsburg, USA, Carnegie Mellon University, práca na spoločnej publikácii „Predpoveď atómovej štruktúry a termodynamickej stability kvázikryštálu AlCuFe “
- Prof. M. de Boissieu, Grenoble, Francúzsko, University Grenoble Alpes, CNRS, Grenoble-INP, SIMaP, F-38000, Grenoble, France, „Atómová dynamika a termoelektrické vlastnosti klatrátov na báze germánia. Atómová dynamika kryštálu $\text{Al}_{13}\text{Co}_4$ “
- Prof. T. Ishimasa, Nagoya, Japonsko, Toyota Physical and Chemical Research Institute, „Hľadanie dodekagonálneho kvázikryštálu v zliatinách typu Yb-Pd-Sn“
- Dr N. Fujita, Sendai, Japonsko, Prof. A.P. Tsai, Sendai, a prof. S.R. Barman, Indore, India, Institute of Multidisciplinary Research for Advanced Materials, Tohoku University, Japan, UGC-DAE Consortium for Scientific Research, Indore, India, spoločný experimentálno-teoretický projekt „Atómová štruktúra a elektrónová štruktúra kvázikryštálu AlMnPd “

Zahraničný hostia na FÚ SAV

Hostia neuvedení v tabuľke *Prílohy E*, ktorý si hradili pobytové náklady čiastočne alebo úplne sami, z iných zdrojov.

- Prof. M. Widom, CMU, Pittsburg, USA, 17. — 26. 6. 2017, spoločné výpočty štruktúr s M. Mihalkovičom, príprava prezentácie a publikácie (hradené ubytovanie)
- Prof. Q.M. Ramasse a Dr. D.M. Kepaptsoglou, SuperSTEM Laboratory, STFC Daresbury Campus, Daresbury, U.K., 14. — 15. 3. 2017, krátka návšteva a prednáška "Structure-property relationships revealed at the atomic scale", diskusia o možnostiach ďalšej vzájomnej spolupráce, skúmanie vzoriek v mikroskope s atomárnym rozlíšením Titan Themis, príprava spoločnej publikácie s P. Švecom ml. (vlastné financovanie)
- Diego Gonzales Olabarria, študent Universidad de Valencia, Španielsko 1. 8. — 5. 9. 2017 (financovaný IAESTE)

Štipendisti SAIA

- Prof. Yuriy Plevachuk, Ivan Franko National University of Lviv, Ukrajina, 1. 7. — 31. 8. 2017, pobyt zameraný na riešenie „Effect of metal and intermetallic nanoparticles on structure-sensitive and thermophysical properties of Sn-based lead-free solder materials“, využitie technológie a štruktúrnej analýzy nanomateriálov na vývoj nových spájkovacích materiálov.
- Bc. Boris Rusanov, Ural State Univ., Jekaterinburg, Rusko, 1. 9. — 31. 10. 2017, projekt na prípravu a štúdium vlastností nových objemových kovových materiálov na báze Al a na báze Co-Fe.
- Dr. Eylem Gulce Coker, TUBITAK, Istambul, Turecko, 1. 2. – 31. 7. 2017, pobyt zameraný na vývoj, prípravu a štúdium štruktúry a vlastností rýchlochladených magneticky mäkkých materiálov na báze Fe-Sn-B.

HELENIC-REF

- Dr. Eleni Metaxa, NTUA Athens, Grécko, 15. 1. — 15. 2. 2017, spoločné merania a vývoj reaktora (hradené ubytovanie)
- Dr. Christina Stefani, NTUA Athens, Grécko, 18. 6. — 17. 8. 2017, spoločné merania a vývoj reaktora (hradené ubytovanie)

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, katedra Jadrovej fyziky a biofyziky;

Univerzitný vedecký park CAMBO, Materiálovotechnologická fakulta STU v Trnave

Druh spolupráce (spoločné pracovisko alebo iné): neformálna spolupráca

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 obydli 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 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: Technische Universität Wien, Viedeň, Rakúsko

Druh spolupráce (spoločné pracovisko alebo iné): Neformálna spolupráca

Začiatok spolupráce: 2014

Zameranie: Experimentálne a teoretické

Zhodnotenie: Bola nadviazaná spolupráca s Institute of Applied Synthetic Chemistry. V rámci spolupráce boli prevedené analýzy vzoriek pomocou pozitronovej anihilačnej spektroskopie.

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 nanoštruktúr.

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: Laboratorné 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 čerpadel. V rámci tohto projektu nás jeden z partnerov projektu požiadal o laboratorné 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 matica 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

V rámci vývoja plynového terča pre urýchľovač Tandetron bolo potrebné vyvinúť plynovú komôrku oddelenú tenkou fóliou (hrúbka rádovo 1 μm) od priestoru iónovodu s vysokým vákuom. V spolupráci Mezinárodným laserovým centrom bol vyvinutý spôsob zvarovania tenkých fólií HAVARu k masívnej nerezovej príruby pomocou impulzného laseru. Navrhnutý spôsob zvarovania bol experimentálne overený a bola podaná patentová prihláška pre takýto spôsob zvarovania častí s veľmi rozdielnou hrúbkou a hmotnosťou.

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 koeficeinty tepelnej a teplotnej vodivosti a hmotnostnej tepelnej kapacity. Ďalšie merania odrazivosti a priepustnosti žiarenia pre vlnové dĺžky 300-1100 nanometrov 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 expert pre Horizont 2020: Nanotechnológie, pokročilé materiály, výrobné procesy a postupy a biotechnológie
	Programový výbor pre Nanotechnológie, pokročilé materiály, biotechnológia, pokročilé výrobné procesy programu Horizont 2020	Delegát Programového výboru za SR
	Národná podporná štruktúra pre Horizont 2020	Národný kontaktný bod pre Horizont 2020: Nanotechnológie, pokročilé materiály, výrobné procesy a postupy a biotechnológie
Prof., Ing. Štefan Luby, DrSc.	Programový výbor Horizont 2020 téma Bezpečné spoločnosti	člen za SR
RNDr. Eva Majková, DrSc.	Monitorovací výbor Operačného programu Výskum a inovácie	člen
	pracovná skupina pre hodnotenie OP VaI	člen
	Predsedníctvo APVV	podpredsedníčka
	Komisia pre návrh štátnych vyznamenaní	člen
	Stála komisia Rady vlády pre vedu, techniku a inovácie	člen
Ing. Peter Švec, DrSc.	High Level Group of EU Member States and H2020 Associated Countries on Nanosciences, Nanotechnologies and Advanced Materials	člen
Mgr. Martin Venhart, PhD.	Výbor pre spoluprácu SR s CERN	tajomník výboru, Koordinátor experimentov mimo LHC a teoretikov

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

Názov expertízy: Člen skupiny pre prípravu 9. rámcového programu

Adresát expertízy: Ministerstvo školstva, vedy, výskumu a športu SR

Spracoval: Prof., Ing. Štefan Luby, DrSc.

Stručný opis: Účasť na rokovaníach, tvorba slovenského stanoviska

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

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

Meno pracovníka	Názov orgánu	Funkcia
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	29	tlač	5	TV	1
rozhlas	4	internet	2	exkurzie	2
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	0
iné	6				

9.2. Vedecko-organizačná činnosť

Tabuľka 9b Vedecko-organizačná činnosť

Názov podujatia	Domáca/ medzinárodná	Miesto	Dátum konania	Počet účastníkov
ISTROS 2017 – Isospin, STructure, Reactions and energy Of Symmetry	medzinárodná	Častá-Papiernička, Slovensko	14.05.-19.05.2017	35
CEQIP 2017 – Central European Quantum Information Processing	medzinárodná	Smolenice, Slovensko	31.05.-03.06.2017	58
APCOM 2017 – Applied Physics of Condensed Matter	medzinárodná	Štrbské Pleso, Slovensko	12.06.-14.06.2017	75
5th Progress in Applied Surface, Interface and Thin Film Science - Solar Renewable Energy News SURFINT-SREN V	medzinárodná	Florencia, Taliansko	20.11.-23.11.2017	140

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
Gmuca Štefan	1	0	0
Spolu	1	0	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)
Slovenská fyzikálna spoločnosť (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)

Odborná skupina chémie a fyziky tuhých látok (funkcia: člen)

Slovenská fyzikálna spoločnosť (funkcia: člen)

Slovenská vákuová 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: Member)

prof. Ing. Ivan Štich, DrSc.

Učená spoločnosť SAV (funkcia: riadny člen)

Ing. Peter Švec, DrSc.

Učená spoločnosť SAV (funkcia: riadny člen)

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

V rámci podujatia Týždeň vedy a techniky na Slovensku, dňa 8. 11. 2017 FÚ SAV zorganizoval každoročné podujatie „Deň otvorených dverí na FÚ SAV 2017“ určené širokej verejnosti, ale hlavne študentom stredných a vysokých škôl. Podujatie navštívili žiaci so svojimi pedagógmi z niekoľkých bratislavských škôl ako aj laický záujemcovia o fyziku. Pre skupinu návštevníkov bola pripravená prednáška aj nasledujúci deň. Na podujatí odzneli prednášky:

- Ako magnetická rezonancia zobrazuje telo? – A. Liptaj
- Svet ako (kvantový) výpočet – D. Nagaj
- Stručné úvahy o zakrivenom kvantovom priestore (kvantový svet očami fyzika) – A. Gendiar
- Temná hmota a antihmota – P. Filip
- Virtuálne nanolaboratórium (alebo nanotechnológie on-line) – Ján Brndiar

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 2017** kde vystúpili s prednáškou *Kvantový svet*, kde predstavili svet okolo seba z pohľadu fotónu a ukázali aké divné veci môžeme v kvantovom svete stretnúť a zažiť. V samostatných stánkoch pracovníci zoznamovali účastníkov s nie každodennými javmi kvantového sveta (Doba kvantová), s neznámymi vlastnosťami nanosveta a jeho pestrými farbami (Farebný svet nanočastíc) ako aj potrápili logické závity v stánku Medzinárodný turnaj mladých fyzikov.

Ústav sa tiež podieľal na organizácii viacerých podujatí určených pre žiakov a študentov. Pod

vedením doc. Plescha prebehlo v Aule SAV Úvodné sústreďenie Turnaja mladých fyzikov (TMF) za účasti viac ako 120 študentov, pedagógov a lektorov. Zorganizované tiež boli regionálne a celoštátne kolo TMF, ako aj Olympiády mladých vedcov (IJSO). V roku 2017 prebehol aj pilotný ročník Ceny Dionýza Ilkoviča, ktorú z pozície odborného garanta a predsedu poroty spoluorganizuje doc. Plesch. Z viac ako 50 nominácií boli pod záštitou ministerky školstva SR ocenení traja učitelia za prácu s talentovanou mládežou.

10. Činnosť knižnično-informačného pracoviska

10.1. Knižničný fond

Tabuľka 10a Knižničný fond

Knižničné jednotky spolu		
z toho	knihy a zviazané periodiká	10502
	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		21
v tom	kúpou	21
	darom	
	výmenou	
	bezodplatným prevodom	
	náhradou	
Úbytky knižničných jednotiek		
Knižničné jednotky spracované automatizovane		1320

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)		333
v tom z r. 1	prezenčné výpožičky	270
	absenčné výpožičky	
v tom z r. 1	odborná literatúra pre dospelých	
	výpožičky periodík	63
MVS iným knižniciam		20
MVS z iných knižníc		32
MMVS iným knižniciam		
MMVS z iných knižníc		
Počet vypracovaných bibliografií		
Počet vypracovaných rešerší		2

10.3. Používatelia

Tabuľka 10c Používatelia

Registrovaní používatelia	93
Návštevníci knižnice spolu (bez návštevníkov podujatí)	96

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 €	935,49

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
- predsedníčka Snemu SAV

11.2. Členstvo v Predsedníctve SAV a vo Vedeckej rade SAV

RNDr. Eva Majková, DrSc.

- podpredsedníčka pre vedu a výskum

Mgr. Martin Venhart, PhD.

- Člen Predsedníctva SAV

11.3. Členstvo vo vedeckých kolégiách SAV

RNDr. Stanislav Hlaváč, CSc.

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

Ing. Matej Jergel, DrSc.

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

RNDr. Marián Krajčí, DrSc.

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

Ing. Štefan Lányi, DrSc.

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

RNDr. Ladislav Šamaj, DrSc.

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

11.4. Členstvo v komisiách SAV

Mgr. Andrej Gendiar, PhD.

- Edičná rada SAV (člen)

RNDr. Katarína Gmucová, CSc.

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

Ing. Matej Jergel, DrSc.

- Komisia SAV pre vyhodnocovanie medzinárodných projektov (člen)

Prof., Ing. Štefan Luby, DrSc.

- Porota pre udeľovanie Medzinárodnej ceny SAV (člen)

RNDr. Eva Majková, DrSc.

- Porota pre udeľovanie Medzinárodnej ceny SAV (členka)
- Rada SAV pre vzdelávanie a doktorandské štúdium (členka)

RNDr. Štefan Olejník, DrSc.

- Komisia SAV pre informačné a komunikačné technológie (člen)

11.5. Členstvo v orgánoch VEGA

Ing. Ján Ivančo, PhD.

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

Ing. Matej Jergel, DrSc.

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

RNDr. Marián Krajčí, DrSc.

- Komisia č. 1 (člen)

RNDr. Igor Matko, CSc.

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

Mgr. Martin Veselský, PhD.

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

12. Hospodárenie organizácie

12.1. Výdavky PO SAV

Tabuľka 12a Výdavky PO SAV (v €)

V ý d a v k y	Skutočnosť k 31.12.2017 spolu	v tom:			
		zo ŠR od zriaďovateľ a	z vlastných zdrojov	z iných zdrojov	z toho: ŠF EÚ
Výdavky spolu	31341809	2022293	148889	963627	
Bežné výdavky	3079853	2018293	139478	922082	
v tom:					
mzdy (610)	1439978	1167119	16605	256254	
poistné a príspevok do poisťovní (620)	497666	404520	2831	90315	
tovary a služby (630)	813519	336399	111277	365843	
z toho: časopisy	4045	4045			
VEGA projekty	160093	160093			
MVTS projekty	83264	83264			
CE					
vedecká výchova	6480	6480			
bežné transfery (640)	120590	109738	8765	2087	
z toho: štipendiá	119467	103735	800	14932	
transfery partnerom projektov	194738			194738	
Kapitálové výdavky	54956	4000	9411	41545	
v tom:			9411	41545	
obstarávanie kapitálových aktív	54956	4000			
kapitálové transfery					
z toho: transfery partnerom projektov					

12.2. Príjmy PO SAV

Tabuľka 12b Príjmy PO SAV (v €)

P r í j m y	Skutočnosť k 31.12.2017 spolu	v tom:	
		rozpočtové	z mimorozp. zdrojov
Príjmy spolu	1005228	726793	278435
Nedaňové príjmy			
v tom:			
príjmy z prenájmu	17748		17748
príjmy z predaja výrobkov a služieb	81912		81912
iné	3601		3601
Granty a transfery (mimo zdroja 111)	901967	726793	175174
v tom:			
tuzemské	726793	726793	
z toho: APVV	726793	726793	
iné			
zahraničné	175174		175174
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 2017

15.1. Domáce ocenenia

15.1.1. Ocenenia SAV

Brndiar Ján

Ocenenie špičkových publikácií v časopisoch

Oceňovateľ: Predsedníctvo SAV

Bužek Vladimír

Najcitovanejšie publikácie

Oceňovateľ: Predsedníctvo SAV

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

Běták Emil

Čestný člen SFS

Oceňovateľ: Slovenská fyzikálna spoločnosť

Jergel Matej

Výskumné projekty s vynikajúcou úrovňou 2017

Oceňovateľ: APVV

Opis: ocenené projekty verejnej výzvy VV2011

Štich Ivan

Výskumné projekty s vynikajúcou úrovňou 2017

Oceňovateľ: APVV

Opis: ocenené projekty verejnej výzvy VV2011

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)

V roku 2017 sme zaznamenali jednu žiadosť o poskytnutí informácií k nadlimitnej zákazke – verejnej súťaže pre predmet zákazky „Prístroje a zariadenia pre komplexné laboratórium iónového a rtg rozptylu“ pre projekt s ITMS kódom 26210120023. Požadované materiály boli žiadateľovi zaslané elektronickou formou emailom a sprístupnené na Google disku.

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

17. Problémy a podnety pre činnosť SAV

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.

.....
Mgr. Martin Veselský, PhD.

Prílohy

Príloha A

Zoznam zamestnancov a doktorandov organizácie k 31.12.2017

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

	Meno s titulmi	Úväzok (v %)	Ročný prepočítaný úväzok
Vedúci vedeckí pracovníci DrSc.			
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.	100	0.71
11.	RNDr. Miroslav Nagy, DrSc.	100	0.92
12.	RNDr. Štefan Olejník, DrSc.	100	1.00
13.	RNDr. Ladislav Šamaj, DrSc.	100	1.00
14.	prof. Ing. Ivan Štich, DrSc.	100	1.00
15.	Ing. Peter Švec, DrSc.	100	1.00
Vedúci vedeckí pracovníci CSc., PhD.			
1.	RNDr. Stanislav Hlaváč, CSc.	100	1.00
Samostatní vedeckí pracovníci			
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 Boháčik, CSc.	50	0.50
5.	RNDr. Pavol Butvin, CSc.	60	0.60
6.	RNDr. Beata Butvinová, CSc.	100	1.00
7.	Mgr. Peter Filip, PhD.	100	1.00
8.	Mgr. Andrej Gendiar, PhD.	100	1.00
9.	Ing. Štefan Gmuca, CSc.	100	1.00
10.	RNDr. Katarína Gmucová, CSc.	100	1.00

11.	Ing. Ján Ivančo, PhD.	100	1.00
12.	RNDr. Pavol Kalinay, CSc.	100	1.00
13.	Dr.Rer.Nat. Ing. Mgr. Andrej Liptaj, PhD.	100	1.00
14.	RNDr. Lubomir Martinovič, CSc.	100	0.00
15.	RNDr. Igor Matko, CSc.	100	1.00
16.	Ing. Vladislav Matoušek, CSc.	100	1.00
17.	RNDr. Marek Mihalkovič, CSc.	100	1.00
18.	Ing. Vojtech Nádaždy, CSc.	100	1.00
19.	Mgr. Daniel Nagaj, PhD.	100	1.00
20.	RNDr. Emil Pinčík, CSc.	100	1.00
21.	Doc. RNDr. Martin Plesch, PhD.	100	1.00
22.	RNDr. Daniel Reitzner, PhD.	100	1.00
23.	Mgr. Michal Sedlák, PhD.	100	1.00
24.	Ing. Mgr. Peter Staňo, PhD.	25	0.25
25.	RNDr. Ondrej Šauša, CSc.	100	1.00
26.	Dr. Rer. Nat. Peter Šiffalovič, PhD.	100	1.00
27.	Ing. Igor Travěnek, CSc.	100	1.00
28.	RNDr. Robert Turanský, PhD.	100	1.00
29.	Mgr. Martin Venhart, PhD.	90	0.94
30.	Mgr. Martin Veselský, PhD.	100	1.00
31.	Ing. Viliam Vretenár, PhD.	50	0.50
32.	Doc. Mgr. Mário Ziman, PhD	100	1.00
Vedeckí pracovníci			
1.	Mgr. Adriana Annušová, PhD.	100	0.34
2.	RNDr. Monika Benkovičová, PhD.	100	1.00
3.	Mgr. Ján Brndiar, PhD.	100	1.00
4.	RNDr. Róbert Brunner, CSc.	100	1.00
5.	RNDr. René Derian, PhD.	100	1.00
6.	Mgr. Ing. Jozef Drga, PhD.	100	1.00
7.	Ing. Yuriy Halahovets, PhD.	100	1.00
8.	Ing. Ján Hudec, PhD.	34	0.15
9.	Ing. Irena Janotová, PhD.	100	1.00
10.	Ing. Mário Kotlár, PhD.	40	0.40
11.	RNDr. Tomáš Krajňák, PhD.	100	1.00
12.	Mgr. Roman Krčmár, PhD.	100	1.00

13.	Mgr. Ľuboš Krupa, PhD.	100	0.00
14.	Mgr. Martina Miklošovičová, PhD.	50	0.25
15.	RNDr. Nad'a Mrkývková, PhD.	100	0.25
16.	Dr. Krisztián Palotás	100	1.00
17.	RNDr. Matej Pivoluska, PhD.	100	0.50
18.	Dr. Pareshkumar Manharbhai Prajapati	100	1.00
19.	Mgr. Peter Rapčan, PhD.	100	1.00
20.	RNDr. Anton Repko, PhD.	100	1.00
21.	Ing. Jaroslav Rusnák, PhD.	100	1.00
22.	Mgr. Tomáš Rybár, PhD.	100	1.00
23.	Mgr. Ján Škoviera, PhD.	100	1.00
24.	Ing. Vladimír Štofanič, PhD.	25	0.25
25.	Ing. Peter Švec Jr., PhD.	100	1.00
26.	RNDr. Kamil Tokár, PhD.	100	1.00
27.	Mgr. Karol Végső, PhD.	100	0.42

Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)

1.	Mgr. Matúš Balogh	5	0.05
2.	Mgr. Michal Bodík	5	0.05
3.	Mgr. Katarína Čechová	5	0.05
4.	Mgr. Jakub Hagara	5	0.02
5.	RNDr. Dušan Janičkovič	100	1.00
6.	Ing. Lenka Kabátová	100	1.00
7.	Ing. Anna Kálosi	5	0.05
8.	Mgr. Dušan Kamas	5	0.05
9.	Mgr. Jozef Klimo	5	0.05
10.	Mgr. Dmytro Kostiuk	100	1.00
11.	Mgr. Jakub Krajňák	5	0.02
12.	Ing. Daniel Manca	5	0.05
13.	Mgr. Peter Nádaždy	5	0.05
14.	Mgr. Jaroslav Pavličko	5	0.02
15.	Dr. Ing. Marco Enrico Bagio Pelletta	5	0.03
16.	Ing. Matúš Sedlák	5	0.05
17.	Ing. Rudolf Senderák, Piešťany	100	1.00
18.	MSc. Ashin Shaji	5	0.01
19.	Mgr. Riyas Subair	5	0.05

20.	Mgr. Róbert Urban	5	0.05
21.	Ing. Martina Zemanová	50	0.50
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Mgr. Uršula Juhásová	55	0.00
2.	Ing. Mária Jusková	35	0.35
3.	Ing. Jana Kováčová	100	1.00
4.	Ing. Beata Solčianska	100	0.17
5.	Prom. knih. Božena Številová	100	1.00
6.	Mgr. Angelika Winczerová	128	1.28
Odborní pracovníci ÚSV			
1.	Silvia Bačová	100	1.00
2.	Marta Bubničová	100	1.00
3.	Ľubomír Dostál	50	0.50
4.	Michal Halász	100	1.00
5.	Emília Hoffmanová	100	1.00
6.	Jana Koláriková	100	1.00
7.	Štefan Lučanský, dielňa	100	1.00
8.	Marian Markovič	100	1.00
9.	Blanka Nemčovská	65	0.33
10.	Gustáv Pomšár, Ved. dielňa, technik	100	1.00
11.	Miroslav Popelák, Piešťany	50	0.50
12.	Ivan Sabo	60	0.60
13.	Oľga Švančarová	70	0.70
14.	Peter Zitto	50	0.50
15.	Jana Zvončeková, Piešťany	100	1.00

Zoznam zamestnancov, ktorí odišli v priebehu roka

	Meno s titulmi	Dátum odchodu	Ročný prepočítaný úväzok
Samostatní vedeckí pracovníci			
1.	Mgr. Peter Vršanský, PhD.	30.4.2017	0.10
Vedeckí pracovníci			
1.	Mgr. Maksym Demydenko, PhD.	31.1.2017	0.08
2.	Mgr. Jozef Genzor, PhD.	31.5.2017	0.42
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Mgr. Michal Daniška	12.1.2017	0.00

2.	Mgr. Juraj Zigo, PhD.	21.9.2017	0.09
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Mgr. Lucia Kuchtová	15.9.2017	0.00
2.	Ing. Marta Zofcsáková	30.6.2017	0.33

Zoznam doktorandov

	Meno s titulmi	Škola/fakulta	Študijný odbor
Interní doktorandi hrazení z prostředků SAV			
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. Libor Čaha	Fakulta matematiky, fyziky a informatiky UK	4.1.2 všeobecná fyzika a matematická fyzika
4.	Mgr. Katarína Čechová	Fakulta matematiky, fyziky a informatiky UK	4.1.5 jadrová a subjadrová fyzika
5.	Mgr. Jakub Hagara	Fakulta matematiky, fyziky a informatiky UK	4.1.4 kvantová elektronika a optika
6.	Ing. Anna Kálosi	Fakulta elektrotechniky a informatiky STU	5.2.48 fyzikálne inžinierstvo
7.	Mgr. Dušan Kamas	Fakulta matematiky, fyziky a informatiky UK	4.1.5 jadrová a subjadrová fyzika
8.	Mgr. Jozef Klimo	Fakulta matematiky, fyziky a informatiky UK	4.1.5 jadrová a subjadrová fyzika
9.	Mgr. Jakub Krajňák	Fakulta matematiky, fyziky a informatiky UK	4.1.5 jadrová a subjadrová fyzika
10.	Ing. Daniel Manca	Fakulta matematiky, fyziky a informatiky UK	4.1.3 fyzika kondenzovaných látok a akustika
11.	Mgr. Peter Nádaždy	Fakulta matematiky, fyziky a informatiky UK	4.1.4 kvantová elektronika a optika
12.	Mgr. Jaroslav Pavličko	Fakulta matematiky, fyziky a informatiky UK	4.1.2 všeobecná fyzika a matematická fyzika
13.	Marco Pelletta	Fakulta matematiky, fyziky a informatiky UK	4.1.4 kvantová elektronika a optika
14.	Ing. Matúš Sedlák	Fakulta matematiky, fyziky a informatiky UK	4.1.5 jadrová a subjadrová fyzika
15.	MSc. Ashin Shaji	Fakulta matematiky, fyziky a informatiky UK	4.1.4 kvantová elektronika a optika
16.	Riyas Subair	Fakulta matematiky, fyziky a informatiky UK	4.1.4 kvantová elektronika a optika
17.	Mgr. Róbert Urban	Fakulta matematiky, fyziky a informatiky UK	4.1.5 jadrová a subjadrová fyzika
Interní doktorandi hrazení z iných zdrojov			
<i>organizácia nemá interných doktorandov hrazených z iných zdrojov</i>			
Externí doktorandi			
1.	RNDr. Dušan Janičkovič	Fakulta elektrotechniky a informatiky STU	5.2.48 fyzikálne inžinierstvo

2.	RNDr. Jozef Leja	Fakulta matematiky, fyziky a informatiky UK	4.1.5 jadrová a subjadrová fyzika
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Zoznam zamestnancov prijatých do jedného roka od získania PhD.

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

	Meno s titulmi
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.
7.	RNDr. Gabriel Vlasák, 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:

Adaptácia excitónového modelu jadrových reakcií na zrážky ťažkých iónov s uvažovaním spinových premenných. Odraz štruktúrnych aspektov reakcie v jej štatistickom opise.

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:

Preskúmali sme doménovú štruktúru (DŠ) pásov pripravených ako trilayer a monolayer metódou rýchleho ochladenia taveniny so zložením $\text{Co}_{47}\text{Fe}_{21}\text{Mo}_{6.5}\text{B}_{21}\text{Si}_{4.5}$. Nespracované pásy najmä trilayer sa vyznačovali typickou pozdĺžnou DŠ v smere osi pásy v jej strede a s priečnymi doménami pri jej okrajoch (na lesklej strane). Po nanokryštalizácii v Ar atmosfére oba layer majú komplikovanú DŠ, ktorá je u monolayeru jemnejšia a zodpovedá nameraným hysteréznym slučkám. Charakter výslednej DŠ zodpovedá už skôr nameraným štruktúram na nízko magnetostrieknych magneticky mäkkých páskach na báze Co.

Publikácie: 1 CC práca v tlači (JMMM), vyjdená online:

<https://doi.org/10.1016/j.jmmm.2017.12.040>, 1 príspevok na medzinárodnej konferencii.

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: 26549 €

Dosiahnuté výsledky:

V súvislosti s objavením sa nových experimentálnych údajov na LHCb a ATLAS v CERN pomocou kovariantného kvarkového modelu s infračerveným uväznením sa vypočítali vetviace pomery aj charmovaných B^+_c mezónov na J/ψ časticu a podivné D^+_s a D^{*+}_s mezóny. Dosiahnuté výsledky sa porovnali s novými experimentálnymi údajmi ako aj s hodnotami dosiahnutými v rámci iných teoretických prístupov.

Výsledky boli prezentované na medzinárodnej prehľadovej konferencii EPSHEP 2017 a publikované v Phys. Rev.D.

4.) Investigation of relativistic nucleus interactions at the NUCLOTRON/NICA accelerator complex (*Investigation of relativistic nucleus 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: 0
Čerpané financie: SÚJV: 26549 €

Dosiahnuté výsledky:

Boli vykonané experimenty s cieľom dosiahnuť fúziu jadra a eta mezónu, ktorá je možná pri vysokých energiách. Pri analýze dát v spektre efektívnych hmotností pi-p párov pri $M_{\text{eff}} = 1447.8 \pm 3.6 \text{ MeV}/c^2$ bol nájdený pík s šírkou $\Delta M = 38.8 \pm 10.4 \text{ MeV}/c^2$, čo je dôkaz o existencii nového jadrového objektu – eta mezónového jadra.

Tiež boli vykonané práce v rámci experimentov na 4pi spektrometri FAZA, kde je skúmané horúce jadro, ktoré sa pod tepelným tlakom rozširuje a nachádza sa v oblasti fázovej nestability. V dôsledku fluktuácií hustoty sa systém rozpadá na ansámbel pozostávajúci z kvapôčok (fragmenty) a jadrového plynu (nukleóny). Takáto „jadrová hmla“ sa rozlieta v dôsledku Coulombovských síl a registruje sa ako multifragmentácia.

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: 0
Čerpané financie: SÚJV: 8850 €

Dosiahnuté výsledky:

Hlavnou úlohou spektrometra SCAN-3 je štúdium vysokovzbudených stavov hmoty, získané pomocou vysokoenergetického zväzku deuterónov. Skúmané budú rozpadové produkty – páry energetických nabitých častíc π^{+-} , K^{+-} a neutrónov. Pri návrhu a realizácii presného magnetického spektrometra SCAN-3 bol vykonaný značný objem výpočtov a simulácií vlastností jednotlivých detektorov častíc, ktoré umožnia získať presnosť určenia kinetickej energie na úrovni 1%. Cieľom je dosiahnuť projektované parametre spektrometra.

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: 0
Čerpané financie: SÚJV: 26549 €

Dosiahnuté výsledky:

Zo získaných výsledkov za najdôležitejšie považujeme určenie produkcie izotopov Rn z jadrovej reakcie $^{48}\text{Ca}+^{242}\text{Pu}$, získanie nových izotopov z oblasti uzavretej šupky $N=126$ a skúmanie výťažkov výparných rezíduí z reakcie ^{40}Ar , ^{36}Ar , ^{40}Ca a ^{48}Ca s lantanovými terčami. Bol vykonaný rad metodických prác spojených s prechodom spektrometra MASHA na zväzky ťažkých iónov nového cyklotrónu DC280. V oblasti štruktúry jadier bola vypracovaná systematika štruktúry izotopov Au, nájdená koexistencia formy izotopov $^{182,184}\text{Hg}$, určené rozpady silne zviazaného pásma v ^{177}Au s implikáciou na vnútenú konfiguráciu izotopov Hg. Taktiež boli určené polomery a magnetické momenty jadier $^{179-184}\text{Tl}$.

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 / 31.12.2017
Evidenčné číslo projektu: 08626319/1020103-7400000000

Organizácia je nie
koordinátorom projektu:
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských 1 - Rusko: 1
inštitúcií:
Čerpané financie: SÚJV: 8850 €

Dosiahnuté výsledky:

V uplynulom období sme sa v rámci projektu venovali najmä vývoju zberovej časti systému detektorov SKAN III na stanici vnútorných terčov Nuklotrónu, vývoju algoritmov offline spracovania digitalizovaných signálov v prostredí ROOT, vývoju riadiaceho softvéru prúdových zdrojov separačných magnetov detektora SKAN III. Softvérové vybavenie sme rozšírili o možnosť spracovania získaných digitalizovaných pulzov z polovodičových PIN diód. Vypracovali sme algoritmus rýchlej detekcie pulzov a ich uchovania spolu s časovou informáciou. Pre umožnenie správneho nastavenia meracej aparatury sme vypracovali algoritmus online zobrazenia digitalizovaných signálov na monitore v tzv. osciloskopickom režime. Systém sme rozšírili o možnosť priameho zberu a zobrazovania spektier po lokálnej sieti na ďalších PC v ROOTe. Hardvérová časť detektora SCAN III bola rozšírená o vysokonapäťové moduly pre napájanie detektorov.

V priebehu experimentov sme získali experimentálne dáta, ktoré boli následne analyzované. Na základe získaných výsledkov bola zaslaná publikácia do časopisu NIM A a výsledky boli prezentované na medzinárodnej konferencii.

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: 0
Čerpané financie: SÚJV: 26549 €

Dosiahnuté výsledky:

Systém TATRA bol úspešne využitý na detailné štúdium fenoménu tvarovej koexistencie v izotope ^{183}Au . Bola preukázaná prítomnosť rozdielne deformovaných vzbudených stavov a bola po prvý krát jednoznačne stanovená ich excitačná energia. Výsledok bol získaný pomocou metodológie vyvinutej na OJF FÚ SAV v spolupráci so skupinou A.M. Rodina, v rámci zámeru použiť systém TATRA alebo jeho ekvivalent v budúcnosti na zariadení MASHA v FLJaR SÚJV Dubna.

V roku 2017 bolo opublikovaných 5 prác 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: MVTs SAV: 3150 €

Dosiahnuté výsledky:

Spolupracovali sme na príprave cestovnej mapy (roadmap) v oblasti nanooptického výskumu a jeho zaradení do quantum flagship.

10.) Termodynamika v kvantovom režime (*Thermodynamics in the quantum regime*)

Zodpovedný riešiteľ: Vladimír Bužek
Trvanie projektu: 30.4.2013 / 29.4.2017
Evidenčné číslo projektu: MP1209-MoU
Organizácia je koordinátorom projektu: nie
Koordinátor: University of Exeter
Počet spoluriešiteľských inštitúcií: 10 - Rakúsko: 1, Belgicko: 1, Nemecko: 2, Dánsko: 1, Fínsko: 1, Veľká Británia: 2, Švajčiarsko: 1, Portugalsko: 1
Čerpané financie: MVTs SAV: 1050 €

Dosiahnuté výsledky:

11.) 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: MVTs SAV: 3150 €

Dosiahnuté výsledky:

V treťom roku projektu sme pokračovali vo výskume pervskitových solárnych článkov, náš doktorand získal podporu STMS na pobyt v CHOSE Uni Tore Vergata Rome, čo je jedno z najpoprednejších pracovísk pre výskum pervskitových solárnych článkov v EU. Okrem toho sme svoje výsledky prezentovali na pravidelných COST stretnutiach: COST Stable Next-Generation Photovoltaics: Unravelling Degradation Mechanisms of Organic Solar Cells by Complementary Characterization Techniques StableNextSol – MP1307 7thMC 6th WG meeting, Lisbon, Portugal a ISOS10'17, Malta.

12.) Multifunkcionálne nanokarbónové kompozitné materiály (Multi-Functional Nano-Carbon Composite Materials Network (MultiComp))

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: MVTs SAV: 3150 €

Dosiahnuté výsledky:

V uplynulom období sme sa sústredili na exfoliáciu a funkcionalizáciu MoS₂ platformy. Pomocou samousporiadaných vrstiev MoS₂ funkcionalizovaného biotínom sme ukázali špecifickú väzbu na avidín pomocou zobrazovacej elipsometrie. Taktiež sme sa zamerali na chemomechanickú exfoliáciu MoO_x z MoS₂. Tento materiál je zaujímavý z hľadiska antibakteriálnych vlastností pri prirodzenom osvetlení.

13.) Pokročilá rekonštrukcia v RTG tomografii: Experiment, Modelovanie a Algoritmy (Enhanced X-ray Tomographic Reconstruction: Experiment, Modeling, and Algorithms)

Zodpovedný riešiteľ: Peter Šiffalovič
Trvanie projektu: 16.5.2013 / 15.5.2017
Evidenčné číslo projektu: COST MP1207
Organizácia je koordinátorom projektu: nie
Koordinátor: CWIScience Park 123NL-1090GB Amsterdam, Netherlands
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: MVTs SAV: 1313 €

Dosiahnuté výsledky:

V uplynulom období sme sa venovali teoretickým simuláciám dvoch spriahnutých channel-cutov pre účely realizácie RTG monochromátora s veľkou spektrálnou šírkou a zvýšenou uhlovou akceptanciou. Výsledkom je optimalizovaný dizajn RTG monochromátora na základe dvoch channel-cutov 111 a 220. Nájdene riešenie bude komerčne dostupné cez firmy Integra TDS na Slovensku a Incoatec GmbH v Nemecku.

14.) 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: MVTs SAV: 3150 €

Dosiahnuté výsledky:

Implementácia PR boxu v rámci existujúcich štruktúr kvantovej fyziky.

Programy: CERN/MŠ

15.) 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: 4 - Švajčiarsko: 2, Slovensko: 2
Čerpané financie: MŠ SR: 2500 €

Dosiahnuté výsledky:

V roku 2017 bol na žiadosť experimentu na kolineárnu laserovú spektroskopiu exotických jadier CRIS systém TATRA použitý v ich plánovanom experimente IS571 “Study of the stability of the gallium isotopes beyond the $N = 50$ neutron shell closure”, zameranom na štúdium vlastností izotopov gália v blízkosti uzavretej vrstvy $N=50$. V lete 2017 experiment úspešne prebehol a následne začala analýza dát.

V roku 2017 na OJF FÚ SAV pokračovala analýza experimentálnych dát z merania v rámci experimentu IS521 na komplexe ISOLDE v CERN. Boli opublikované články ohľadne jadrovej štruktúry neutrónovo-deficitných izotopov zlata.

Programy: 7RP

16.) 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: MVTS SAV: 12500 €

Dosiahnuté výsledky:

V perovskitových solárnych článkoch (PSCs) je kľúčovou prípravou perovskitovej vrstvy z roztoku pripravovaná metódou spin coating a následného tepelného spracovania. V rámci projektu sme pripravili perovskitovú vrstvu, ktorá v štruktúre invertného planárneho PSC mala účinnosť konverzie 10-11%. Preskúmali sme proces kryštalizácie počas tepelného spracovania metódou in situ GIWAXS - Grazing Incidence Wide Angle Scattering. Výsledky boli prezentované ako pozvaná prednáška na EMRS Fall Meeting 2017 Warsaw, na 4th Korea- EU Bilateral Workshop on Advanced Materials processing, Jeju, Korea v rámci pozvaných prednášok pozvanou prednáškou E. Majkova et al: Time-resolved GIWAXS Studies of the $\text{CH}_3\text{NH}_3\text{PbI}_3$ xClx Layer Structure Correlated with Photoluminescence and DOS Mapping.

Programy: International Visegrad Found (IVF)

17.) Nanophotonics with metal – group-IV-semiconductor nanocomposites: From single nanoobjects to functional ensembles (*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 áno
koordinátorom projektu:
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: MVTs SAV: 25000 €

Dosiahnuté výsledky:

Práca "Optical Gaps in Pristine and Heavily Doped Silicon Nanocrystals: DFT versus Quantum Monte Carlo Benchmarks", J. Chem. Theory Comput. 13, 6061 (2017) sa zaoberá schopnosťou DFT funkcionálov modelovať metódami TDDFT (time-dependent DFT) optické gapy čistých a silne B a P dopovaných krystalických Si nanočastic. Test je založený na porovnaní s ultrapresnými QMC výpočtami na modelových nanočasticiach. Ukázali sme, že vo všeobecnosti najlepšie výsledky dávajú tzv. range-separated hybrid xc-funkcionály, ale aj v tejto triede je veľký rozptyl a skutočne uspokojivé výsledky generujú len zodva funkcionály, tzn., pred každým veľkým výpočtom by sa malo previesť testovanie funkcionálu, prax, ktorú takmer nikto neaplikuje.

V práci "High-Throughput Study of Compositions and Optical Properties in Heavily Co-Doped Silicon Nanoparticles", J. Phys. Chem. C 121, 27741 (2017) študujeme najmä vplyv distribúcie dopantov na stabilitu klastrov a na ich elektrónové vlastnosti. Toto je mimoriadne dôležitá informácia, nakoľko detailné rozmiestnenie dopantov v klastroch nie je úplne známe ani z experimentálnych štúdií.

Programy: Multilaterálne - iné

18.) 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 áno
koordinátorom projektu:
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 11 - Česko: 3, Maďarsko: 4, Kórejská republika: 2, Poľsko: 2
Čerpané financie: -
Podpora medzinárodnej spolupráce z národných zdrojov: 2083 €

Dosiahnuté výsledky:

Projekt začal koncom roku 2017, v rámci projektu som navštívila Chung Ang University, Seoul, Korea kde som sa zúčastnila 17 Energy Conversion Symposium, Chung Ang University, Seoul, Korea s pozvanou prednáškou E. Majkova et al Nanofilms composed of 2D nanosheets: formation, properties and applications. Následne som sa zúčastnila konferencie 4th International Conference on Advanced Electromaterials, ICEA 2017, Jeju, Korea, s pozvanou prednáškou E. Majkova et al Nanofilms composed of 2D nanosheets: formation, properties and application.

Programy: Bilaterálne - iné

19.) 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 áno
koordinátorom projektu:
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 1 - Taliansko: 1
Čerpané financie: -

Dosiahnuté výsledky:

Ukončila sa komplexná charakterizácie nanočastíc gamma-Fe₂O₃, kvantifikovala sa magnetizácia v jednotkách emu/g, urobili sa merania špecifického povrchu pomocou metódy BET. Pripravili sa nové substráty pre senzory plynov na báze nanočastíc so zapustenými planárnymi elektródami, ktoré umožňujú spoľahlivejšiu prevádzku.

Programy: ERANET

20.) 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 nie
koordinátorom projektu:
Koordinátor: IMDEA Nanociencia, Madrid
Počet spoluriešiteľských inštitúcií: 2 - Nórsko: 2
Čerpané financie: MVTs SAV: 25000 €

Dosiahnuté výsledky:

Využitím vysokorozlišovacích metód transmisnej elektrónovej mikroskopie a atomárne rozlíšenej chemickej analýzy metódami EDS a EELS sme detailne charakterizovali štruktúru feromagnetickú fázu tau-AlMn vrátane in-situ sledovania transformácie epsilon-tau. Na tento účel sme adaptovali vyhrievací držiak pre TEM. Preverili sme hypotézy o riadiacom mikromechanizme a type tejto transformácie. Objavili sme aj nové usporiadanie Al a Mn atómov v doteraz nepozorovanej fáze

AlMn. V monofázových vzorkách tau-AlMn sme stanovili energetický súčin (BH)_{max} popisujúci kvalitu magneticky tvrdého materiálu (článok JALCOM, pozvaná prednáška RQ16).

Vyvinuli sme technológiu prípravy predzliatin BiMn, stanovili sme rozsah zložení na prípravu zliatin s vhodnou fázovou štruktúrou. Pripravili sme prvé vzorky systému BiMn vo forme predzliatiny a rýchloochladených pásov, preskúmali sme ich štruktúru, stabilitu a fázové transformácie. Získali sme prvé výsledky z meraní magnetických vlastností BiMn (prednáška APCOM2017, poster ISMANAM2017, publikácia JALCOM zaslaná).

Programy: Iné

21.) Analýza tenzorových sietí pomocou renormalizačnej grupy v systémoch hyperbolickej/sférickej deformácie (*Renormalization group analysis by tensor network form of energy scale deformation*)

Zodpovedný riešiteľ:	Andrej Gendiar
Trvanie projektu:	1.4.2013 / 31.3.2017
Evidenčné číslo projektu:	25400401
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Department of Physics, Faculty of Science, Kobe University, 657 8501 Kobe, Japan
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	0

Dosiahnuté výsledky:

Študovali sme kvantové a klasické mnohočasticové systémy, v ktorých sú krátkodosahové interakcie sprostredkované cez spiny. Zovšeobecnil sme niekoľko odlišných typov numerických algoritmov na báze tenzorových sietí, aby sme mohli vyšetrovať kritické správanie dvojrozmerného dvadsaťstenového spinového modelu. Tento numerický algoritmus bol následne prepísaný do paralelizovaný C++ kódu a riešený na superpočítači v Japonsku. Vyšetrovali sme stochastický spinový model v kritickom bode pomocou presného logaritmického škálovania entropie previazania pomocou Time-Evolving Block Decimation method. Vyvinuli sme nový tenzorový algoritmus, pomocou ktorého sme schopní študovať kvantové systémy na fraktálnych štruktúrach (článok je zaslaný na publikovanie a ďalší sa finalizuje).

Programy: Horizont 2020

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

Zodpovedný riešiteľ:	Peter Švec
Trvanie projektu:	1.6.2015 / 30.5.2018
Evidenčné číslo projektu:	665318
Organizácia je koordinátorom projektu:	nie
Koordinátor:	National Technical University of Athens
Počet spoluriešiteľských inštitúcií:	3 - Veľká Británia: 2, Taliansko: 1
Čerpané financie:	H2020: 28378 € Podpora medzinárodnej spolupráce z národných zdrojov: 4410 €

Dosiahnuté výsledky:

Skonštruovali sme reaktor umožňujúci testovanie reakcie rozkladu vody/vodnej pary pri teplotách do 300 °C vo vonkajšom magnetickom poli. Realizovali sme nezávislý ohrev oblasti katalyzátora a riadený predohrev vodnej pary vstupujúcej do reaktora. V spolupráci sme tiež vyvinuli prípravu kvalitných kompakto katalyzátora so zlepšenými mechanickými vlastnosťami. Navrhli sme zberný systém pre generované plyny a pomocou jednoduchého senzoru vodíka a série prevodníkov sme zabezpečili meranie a priebežný záznam parametrov a veličín reaktora a prebiehajúcej reakcie. Priebeh reakcie sme testovali v závislosti od viacerých parametrov, najmä intenzity a časového priebehu magnetického poľa a elektrického prúdu a ich vzájomnej orientácie, teploty média a katalyzátora. Výsledky vrátane in-situ štruktúrnej charakterizácie pomocou rtg. a ex-situ pomocou SEM a tomografie sme zaslali hlavnému riešiteľovi.

23.) 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: 124612 € Podpora medzinárodnej spolupráce z národných zdrojov: 3308 €

Dosiahnuté výsledky:

Preskúmali sme a vybrali optimálne metódy štruktúrnej charakterizácie magnetických rias, spravili sme prvé testy zvolených metodík transmisnej a rastrovacej elektrónovej mikroskopie na modelových vzorkách. Priebežne optimalizujeme metódy štruktúrnej charakterizácie, kvantifikácie a sériovej prípravy preparátov z rias využitím poznatkov z prípravy a charakterizácie biologických vzoriek. Súbežne s partnermi vyvíjame metódu prípravy magnetických systémov vhodných na záchyt a ukotvenie magnetických rias.

Projekty národných agentúr

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: 9049 €

Dosiahnuté výsledky:

Bola venovaná pozornosť tzv. "omega-phi" zmiešavaniu, formálnym prechodom častíc do ich kvarkovej štruktúry a porovnaním ich rozpadov do rôznych kanálov s experimentálnymi hodnotami boli nájdené štyri fyzikálne formy zmiešavania z ôsmich rôznych možných. Získané výsledky boli použité na určenie vzťahov medzi vektor-mezón-nukleónovými väzbovými konštantami a väzbovými konštantami f^F , f^D a f^S pre SU(3) invariantný lagranžian spolu s rozkladom vlnových funkcií v lagranžiane na komponenty odpovedajúce zabudovaným v nich elementárnym časticiam.

Boli skonštruované U&A modely elektromagnetickej štruktúry oktetových hyperónov a pomocou nich sformulované teoretické predpovede správania sa ich elektrických a magnetických formfaktorov.

V rámci kovariantného kvarkového modelu boli vypočítané branching ratios pre rozpady ťažkých B_c mezónov na charmoniá a D mezóny. Výsledky boli porovnané s najnovšími experimentálnymi hodnotami získanými kolaboráciami LHCb a ATLAS a inými teoretickými prístupmi.

Výsledky boli publikované v 3 CC článkoch a v 4 konferenčných príspevkoch.

2.) Jadrové reakcie v aplikáciách a astrofyzike (*Nuclear reactions in applications and astrophysics*)

Zodpovedný riešiteľ:	Emil Běták
Trvanie projektu:	1.1.2014 / 31.12.2017
Evidenčné číslo projektu:	2/0110/14
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 2317 €

Dosiahnuté výsledky:

Adaptácia excitónového modelu jadrových reakcií na zrážky ťažkých iónov s uvažovaním spinových premenných. Odraz štruktúrnych aspektov reakcie v jej štatistickom opise.

Dva články vo WoS a SCOPUS, jeden článok v tlači v zahr. časopise.

3.) 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: 2780 €

Dosiahnuté výsledky:

V rámci riešenia projektu bol odvodený model pre nový typ pravouhlého plošného senzora ohnutého do tvaru dutého valca "hot tube". Prednáška o novom senzore bola prezentovaná na konferencii THERMOPHYSICS 2017. Práca bola publikovaná v AIP. Počas konferencie MEASUREMENT, 11th International Conference, Smolenice, Slovakia 2017 odznela pozvaná prednáška ďalší príspevok na konferencii bol prezentovaný vo forme postera, článok bol publikovaný v zborníku indexovanom v SCOPUS.

Ďalšie výsledky boli publikované formou prednášky na medzinárodnej konferencii ECTP 2017. Po prvý krát sme riešili problém merania tepelných vlastností geometricky nestabilného materiálu, teda mokrej ílovitej hlíny. Overili sme aj vplyv kontajnera vzorky na presnosť merania.

Celkové publikačné aktivity: 3 články, 1 pozvaná prednáška, 2 prednášky a 1 poster na medzinárodných konferenciách. Článok do časopisu HT-HP je pred dokončením.

4.) Vnútorne makroskopické sily - z čoho pochádzajú a ako ovplyvňujú magnetické vlastnosti vysokoindukčných kovových pásov (*Intrinsic macroscopic forces - what are its sources and how it impacts magnetic properties of high-induction metallic ribbons*)

Zodpovedný riešiteľ: Beata Butvinová
Trvanie projektu: 1.1.2015 / 31.12.2017
Evidenčné číslo projektu: 2/0037/15
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 1882 €

Dosiahnuté výsledky:

Metódou rýchleho ochladenia taveniny boli pripravené pásy so zložením Co₄₇Fe₂₁Mo_{6.5}B₂₁Si_{4.5} ako trilayer a monolayer s cieľom potlačiť nežiaduci vplyv povrchu na magnetické vlastnosti pochádzajúci od chemických a topologických rozdielov medzi povrchmi a vnútrom pásy (mech. napätie, drsnosť). Zistili sme:

Trilayer má výrazne lepšiu kvalitu povrchov na lesklej aj matnej strane pásy. Kavity od strany valca sú menšie a plytšie. Získaním väčšej hrúbky pásy dochádza k redukcii pomeru povrch/objem a k redukcii nežiaduceho vplyvu povrchov. Chemické rozdiely medzi povrchmi a vnútrom trilayeru neboli takmer pozorované na rozdiel od monolayeru. Magneticky mäkké vlastnosti po dosiahnutí nanokryštalície sú u tri-layeru výrazne lepšie. Rozdiely v elektrickom odpore sú minimálne (~ 0.3 %), to znamená, že tri-layer je napriek väčšej hrúbke dobre využiteľný pre prenos energie (signálu) v celom priereze (skin efekt) aj pre vyššie frekvencie v ráde MHz.

Publikácie: 2 – CC publikácie, 1 – príspevok na medzinár. konferencii, 1 - CC práca prijatá do tlače.

5.) Optimalizácia silnokorelovaných kvantových systémov pomocou tenzorových súčinových stavov (*Optimization of strongly-correlated quantum-mechanical systems by tensor product states*)

Zodpovedný riešiteľ: Andrej Gendiar

Trvanie projektu: 1.1.2015 / 31.12.2017
Evidenčné číslo projektu: 2/0130/15
Organizácia je áno
koordinátorom projektu:
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských 3 - Rakúsko: 1, Česko: 1, Poľsko: 1
inštitúcií:
Čerpané financie: VEGA SAV: 6033 €

Dosiahnuté výsledky:

Vyvinuli sme nový tenzorový algoritmus, pomocou ktorého sme schopní študovať kvantové systémy na fraktálnych štruktúrach (článok je zaslaný na publikovanie a ďalší sa finalizuje). Študovali sme kvantové a klasické mnohočasticové systémy, v ktorých sú krátkodosahové interakcie sprostredkované cez spiny resp. cez elektróny. Zovšeobecnil sme niekoľko odlišných typov numerických algoritmov na báze tenzorových sietí, aby sme mohli vyšetrovať kritické správanie dvojrozmerného dvadsaťstenového spinového modelu pomocou metódy Corner Transfer Matrix Renormalization Group (CTMRG). Tento numerický algoritmus bol následne prepísaný do paralelizovaný C++ kódu a riešený na superpočítači v Japonsku (výsledky boli publikované vo Phys. Rev. E). Okrem toho sme aplikovali metódu CTMRG, aby sme potvrdili hypotézu o slabej univerzalite 6-vertexového spinového modelu (článok vyšiel vo Phys. Rev. E). Pomocou metódy Density Matrix Renormalization Group sme študovali silnokorelovaný kvantový systém, ktorého riešením sú majoranovské hranové stavy, pričom študovaný systém je v supravodivom režime s coulombovskou interakciou lokalizovanou na elektróny na jednom uzle ako aj medzi najbližšími susedmi. Magnetizačné procesy, ktoré vykazujú reentrantné fázové prechody v kvantových spinovo-elektrónových modeloch boli študované pomocou CTMRG algoritmu, ktorý je schopný riešiť aj frustrované systémy (dva články boli opublikované v časopisoch J. Mag. Mat. a Physica B). Vyšetrovali sme stochastický spinový model v kritickom bode pomocou presného logaritmického škálovania entropie previazania. Použili sme nový numerický algoritmus, menovite Time-Evolving Block Decimation method (článok je v druhom kole recenzného konania vo Phys. Rev. E). Nekovalentné interakcie v kvantovochemických štúdiách boli numericky riešené pomocou "fixed-node" aproximácie difúzneho Monte Carla (Phys. Rev. E).

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

Zodpovedný riešiteľ: Štefan Gmuca
Trvanie projektu: 1.1.2016 / 31.12.2019
Evidenčné číslo projektu: VEGA 2/0176/16
Organizácia je áno
koordinátorom projektu:
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských 0
inštitúcií:
Čerpané financie: VEGA SAV: 7143 €

Dosiahnuté výsledky:

Bola navrhnutá nová metóda energetickej kalibrácie urýchľovačov nízkych energií pomocou rezonancií pružného spätného rozptylu na ľahkých jadrách. Bola určená tvarová funkcia Breit-Wignerovskej rezonancie pre tenké aj hrubé terčiky, ktorá zahrnuje interferenciu s požadovými procesmi. Tvarová funkcia obsahuje jeden dodatočný parameter (fázový posun) reprezentujúci interferenčné efekty. Kalibrácia obvykle obsahuje merania na tenkom aj hrubom terčíku. Meranie s tenkým terčom slúži na určenie interferenčného fázového posunu, ktorý sa následne využije pri meraní s hrubým terčíkom na určenie energie rezonancie. Na základe rozsiahlej

analýzy dostupných experimentálnych údajov pomocou R-maticového formalizmu bola vybraná sada vhodných EBS rezonancií použiteľných na energetickú kalibráciu urýchľovačov.

7.) 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: 3538 €

Dosiahnuté výsledky:

Študovali sme tenké vrstvy poly[methyl(phenyl)silanu pripravené rôznymi postupmi tak, aby sa dosiahol odlišný podiel kryštalickej fázy. Ukázali sme, že prítomnosť vyššieho podielu kryštálov znižuje degradačnú rýchlosť pri ožiarení UV svetlom s vlnovou dĺžkou 345 nm. Elektrochemickou impedančnou spektroskopiou s energetickým rozlíšením sme zmapovali hustotu stavov v kopolyméri PFO-DBT

(Poly[2,7-(9,9-dioctylfluorene)-alt-4,7-bis(thiophen-2-yl) benzo-2,1,3-thiadiazole]) v energetickom rozsahu od HOMO po LUMO. Získané dáta sme porovnali s výsledkami získanými na PFO homopolyméri (Poly(9,9-dioctyl-9H-fluorene-2,7-diyl)). Potvrdili sme možnosť kontrolovať proces samosporiadania kopolyméru PFO-DBT optimalizáciou rýchlosti odparovania rozpúšťadla.

8.) Vysoko kvalitné aktívne povrchy pre novú generáciu prvkov kryštálovej röntgenovej optiky
(*High-quality active surfaces for the next generation of the crystal X-ray optics*)

Zodpovedný riešiteľ: Matej Jergel
Trvanie projektu: 1.1.2015 / 31.12.2017
Evidenčné číslo projektu: 2/0004/15
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 13960 €

Dosiahnuté výsledky:

Pokračovali sme vo vývoji technológie nanoobrábania rtg optiky. Zamerali sme sa na odstránenie parazitnej povrchovej mriežky po deterministickom nanoobrábaní, ktorá spôsobuje difúzny rtg rozptyl aktívneho povrchu monochromátora, a to pomocou bombardovania iónovým Ar⁺ zväzkom povrchu Ge(110), ktoré sme začali v minulom roku. Testovali sme rôzne energie zväzku a časy pri kolmom dopade a aj v kombinácii s cyklickou zmenou uhla dopadu, pričom sme dosiahli strednú kvadratickú hodnotu drsnosti pod 1 nm, ale mriežka nebola úplne odstránená ani pri energii iónov 800 eV. Najlepšie výsledky finalizácie Ge povrchu po nanoobrábaní poskytlo ožarovanie nanosekundovým UV laserom vlnovej dĺžky 355 nm, ktoré je dobre absorbované a spôsobuje krátkodobé pretavenie a epitaxnú rekryštalizáciu povrchu. Optimalizovali sme parametre a geometriu ožarovania s cieľom vyhnúť sa explozívnomu taveniu. Tým sme odstránili zvyškové

napätia pod povrchom a vyhladili povrch až do odstránenia parazitného periodického zvlnenia povrchu. Lokálnu drsnosť povrchu na ploche 10x10 mikrónov sme zredukovali pod 1 nm. Tento výsledok spĺňa požiadavky rtg optiky, pričom výhodou laserového ožarovania je aj možnosť aplikácie na ťažko prístupné povrchy v kanálikových monochromátoroch a krátky čas ožarovania.

S cieľom aplikovať vyvinutú technológiu naoobrábania sme pokračovali v simuláciách a návrhu kanálikových rtg monochromátorov na základe dynamickej teórie rtg difrakcie a metódy "ray tracing". Okrem tradičnej disperznej a nedisperznej konfigurácie týchto monochromátorov skúmanej v predošlom roku sme sa zamerali na kvázi-disperznú konfiguráciu kanálikových monochromátorov Ge(111) a Ge(220), ktorá poskytuje dobrý kompromis medzi rozlíšením a intenzitou. O optimalizovanú zostavu týchto monochromátorov prejavila záujem Univerzita Tel Aviv, s cieľom jej použitia do optiky nového typu mikrofokusného rtg zdroja. Na základe nášho návrhu bude preto túto konfiguráciu realizovať firma Integra TDS, s.r.o. Piešťany a následne bude implementovaná do mikrofokusného rtg zdroja vo firme Incoatec Geesthacht GmbH. Pôjde vôbec o vo svete prvý takýto rtg zdroj so zabudovanou reflexno-difrakčnou optikou.

Výsledky projektu boli publikované v 2 CC časopisoch a v 5 konferenčných príspevkoch.

9.) 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 organizácii SAV:	Ján Hudec
Trvanie projektu:	1.10.2016 / 31.12.2018
Evidenčné číslo projektu:	2/0105/16
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Ústav stavebníctva a architektúry SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	0

Dosiahnuté výsledky:

10.) 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 Matko
Trvanie projektu:	1.1.2017 / 31.12.2020
Evidenčné číslo projektu:	2/0127/17
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií:	2 - Slovensko: 2
Čerpané financie:	VEGA SAV: 2573 €

Dosiahnuté výsledky:

Na vybraných uhlíkových vláknach (CF) s definovanou veľkosťou špecifického povrchu sa zmerali sorpčné vlastnosti pre vychytávanie fenolov zo znečistenej vody. U týchto CF boli stanovené veľkosti pórov ako aj kvalitatívna závislosť počtu dier od špecifického povrchu.

Ďalej boli z hľadiska sorpčných vlastností charakterizované súvisiace materiály s ultrajemnou poróznou štruktúrou.

Výsledky boli prezentované na konferencii 1st Journal of Thermal Analysis and Calorimetry Conference and 6th V4 and Thermoanalytical Conference – Budapest, Hungary.

11.) 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: 2087 €

Dosiahnuté výsledky:

Degradáciou UV žiarením modelového polyméru so sigma väzbami -poly[methyl(phenyl)silane] (PMPSi) - sme ukázali vplyv kryštalickej fázy na stabilitu polymérnej vrstvy. Zistili sme, že degradácia polyméru odvodená z generačnej rýchlosti defektných stavov v zakázanom páse pri vlnovej dĺžke 345 nm je nepriamo úmerná obsahu kryštalickej fázy. Navrhli sme model, v ktorom kryštalická fáza tvorená molekulárnym usporiadaním pôsobí ako efektívna pasca excitačnej energie s potlačenou nežiarivou rekombináciou, čím sa zvyšuje stabilita vrstvy PMPSi. Molekulárne usporiadanie a vyšší obsah kryštalickej fázy môže byť všeobecným prístupom zvýšenie stability a potlačenie degradácie polymérov v molekulárnej elektronike.

Výsledky boli publikované v 1 CC časopise a 1 zborníku z konferencie.

12.) 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: 1727 €

Dosiahnuté výsledky:

Medzi najdôležitejšie výsledky zaraďujeme tie, ktoré boli prezentované na medzinárodnej

konferencii IUVISTA na Okinawe v decembri 2017 v rámci pozvanej prednášky E. Pinčíka a týkali sa interakcie kyslíkovej indukčne budenej plazmy a povrchovej oblasti kryštalickeho GaAs počas jeho plazmovej anodickej oxidácie. Pomocou získaných experimentálnych údajov spomenutého oxidačného procesu boli odhadnuté toky negatívne nabitých kyslíkových iónov, ktoré za daných podmienok prichádzali k povrchu polovodiča a odpovedajúce koncentrácie kyslíkových iónov a elektrónov v pripovrchovej oblasti GaAs. Tie boli následne korelované s elektrickými a optickými vlastnosťami formovanej štruktúry oxid-polovodič.

13.) Výskum štruktúr čierneho kremíka

Zodpovedný riešiteľ: Emil Pinčík
Trvanie projektu: 1.1.2015 / 31.12.2017
Evidenčné číslo projektu: 2/0076/15
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 3 - Česko: 1, Nemecko: 1, Japonsko: 1
Čerpané financie: VEGA SAV: 2319 €

Dosiahnuté výsledky:

Za najdôležitejší výsledok projektu považujeme experimentálne zistenie, že polohy fotoluminiscenčných maxim skúmaných poréznych Si štruktúr majú veľmi odlišnú závislosť od teploty vzorky počas meraní keď porovnáme vzorky poréznych vrstiev pripravené pomocou katalytickej Pt vrstvy a bez nej - t.j. elektrochemicky. Dochádza k posunutiu polohy fotoluminiscenčného maxima k vyšším energiám o takmer 0.4 eV, keď zmeníme teplotu vzorky z izbovej (cca 300 K) na 6K. Tento jav nebol pozorovaný u vzoriek pripravených elektrochemicky. Efekt vysvetľujeme tým, že štruktúry pripravené pomocou katalytickej Pt vrstvy obsahujú Si nanokryštály, ktoré sú zdrojom fotoluminiscenčného signálu – jav tzv. kvantového uväznenia. U vzoriek pripravených elektrochemicky sú zdrojom fotoluminiscenčného signálu nestechiometrické hydro-oxidové vrstvy pokrývajúce poréznu Si štruktúru po jej vyňatí z leptacieho roztoku a osušení. Výsledok umožní lepšiu diferenciáciu Si poréznych vrstiev a umožní vypracovanie presnejšieho teoretického popisu javu tzv. kvantového uväznenia.

14.) 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: 2896 €

Dosiahnuté výsledky:

Venovali sme sa problematike CHSH hier a ich klasickej a kvantovej pravdepodobnosti výhry, riešili sme tiež fundamentálne otázky problému merania v Kvantovej mechanike. Jeden článok bol publikovaný v PRA, jeden v EPJ, jeden článok je prijatý na publikáciu v NJP, jeden článok zaslaný na publikovanie do EJP (na pozvanie) a jeden do Nature Scientific Reports.

15.) Kvantové kráčania a nekompatibilitnosť (*Quantum walks and incompatibility*)

Zodpovedný riešiteľ: Daniel Reitzner
Trvanie projektu: 1.1.2015 / 31.12.2017
Evidenčné číslo projektu: 2/0151/15
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 7239 €

Dosiahnuté výsledky:

V tomto roku sme publikovali jednu prácu na tému kvantových kráčaní, v ktorej sme poukázali na novú možnosť vyhľadávania ciest v grafoch za pomoci kvantových kráčaní. Ukončili sme prácu aj na ďalších troch článkoch, ktoré sú v recenznom konaní. V oblasti kvantových kráčaní sme sa zamerali na vyhľadávanie pod vplyvom lokálnej dekoherencie, kde sme prezentovali nové hranice efektivity skúmaných algoritmov. Zvyšné dva články sú z oblasti kvantovej nekompatibility. V prvom sme skúmali tzv. PR boxy, ktoré vykazujú maximálne narušenie Bellových nerovností prekračujúc možnosti ako klasickej teórie, tak aj kvantovej. V článku sme ukázali špecifické okolnosti, za ktorých ich môžeme identifikovať aj v kvantovej, či klasickej teórii. Posledný článok skúma možnosti kompatibility meraní a kvantových kanálov. Sústredili sme sa na špecifický typ kompatibility medzi jednoduchými qubitovými meraniami a Pauliho kanálmi a prezentovali sme presné kritéria, kedy sú kompatibilné. Tieto výsledky sme prezentovali na štyroch konferenciách, pričom jedna z prednášok bola pozvaná.

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

Zodpovedný riešiteľ: Jaroslav Rusnák
Trvanie projektu: 1.1.2017 / 31.12.2019
Evidenčné číslo projektu: 2/0024/17
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 1658 €

Dosiahnuté výsledky:

V tomto roku riešenia projektu bolo pokračovanie vo vývoji meracieho systému na meranie elektrických parametrov materiálov, HW a SW. Je to jeden z cieľov. Ďalej boli urobené merania elektrických parametrov polymérov, keramických materiálov a polovodičov. Na základe výsledkov z vývoja aparatury sa pokračuje v neformálnej spolupráci s Ústavom polymérov SAV (NIR spektroskopia) a Oddelením jadrovej fyziky FÚ SAV (PALS spektroskopia) na výskume fotopolymérov. S PI v Drohobiči, Ukrajina, a s Univerzitou Jána Pavla II, Lublin, Poľsko, na výskume vlastností polovodičových materiálov.

V súčasnosti sa pracuje na publikáciách zo získaných výsledkov. Jeden článok je akceptovaný, vyjde vo februári 2018 v tlačenej forme. Spomínaný článok v elektronickej forme je možné pozrieť na <http://www.sciencedirect.com/science/article/pii/S0304885317314397>

17.) Štatistická fyzika priestorovo ohraničených systémov

Zodpovedný riešiteľ: Ladislav Šamaj
Trvanie projektu: 1.1.2015 / 31.12.2017
Evidenčné číslo projektu: 2/0015/15
Organizácia je áno
koordinátorom projektu:
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 7239 €

Dosiahnuté výsledky:

Pre zmesi nabitých častíc s diskretnou alebo spojitou distribúciou nábojov lokalizovaných medzi dvojicou ekvivalentne nabitých platní bola pozorovaná pre ľubovoľnú teplotu kvázi-univerzalita (nezávislosť od nábojového zloženia systému) tlaku ako funkcie špeciálne škálovanej vzdialenosti medzi platňami. Táto kvázi-univerzalita bola dokumentovaná vo vysokoteplotnej Poisson-Boltzmannovej limite. Výsledky boli uverejnené v 6 CC článkoch.

18.) 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: 4020 €

Dosiahnuté výsledky:

Zmerali sa podrobne teplotné závislosti voľného objemu modelového kryoprotektíva dimetylsufoxidu DMSO v teplotnom rozsahu 15-320 K ako aj vody. Ukázali sa značné rozdiely v procese tuhnutia a topenia oboch látok, najmä v okolí teplotného intervalu 150-240 K. Sledovali sa vplyvy rôznej koncentrácie DMSO na mrznutie vody (10, 2 a 1,8 %). V súčasnosti prebieha podrobná analýza a porovnávanie rozdielov v teplotných charakteristikách jednotlivých zmesí v oblasti 150-240K ako aj tesne v okolí teploty kryštalizácie podchladenej vody.

Pokračovalo sa v medzinárodnej spolupráci s viacerými pracoviskami na téme modifikovaného polymetylmetakrylátu PMMA implantovanými iónmi B a Ag a tiež na téme voľnoobjemových charakteristík matric ureasilikátu a jeho kompozitov s využitím ako nosičov lakázy pre biosenzory. Ide hlavne o vysvetlenie, prečo starnutie vzoriek ureasilov zlepšuje amperometrické vlastnosti biosenzorov, vyrobených na ich základe.

Výsledky boli uverejnené v 4 CC publikáciách a v 1 neimpaktovanom medzinárodnom článku.

19.) Vzťah elektrónového transportu a štruktúry, rozmerov a usporiadania v nanočasticových súboroch pre pokročilé senzory plynov (*Electronic transport vs. structure, size and ordering in nanoparticle arrays for advanced gas sensors*)

Zodpovedný riešiteľ: Peter Šiffalovič
Trvanie projektu: 1.1.2015 / 31.12.2017
Evidenčné číslo projektu: 2/0010/15
Organizácia je áno

koordinátorom projektu:

Koordinátor: Fyzikálny ústav SAV

Počet spoluriešiteľských 0

inštitúcií:

Čerpané financie: VEGA SAV: 14399 €

Dosiahnuté výsledky:

Ukončila sa komplexná charakterizácia nanočastíc γ -Fe₂O₃ doplnením merania špecifického povrchu metódou BET. Za tým účelom sa pripravili aj porovnávacie nanočastice bez surfaktantu. Ukázalo sa, že aj pri starostlivom odstraňovaní surfaktantu našou metodikou špecifický povrch je iba 88,6 m²/g, zatiaľ čo pri nanočasticiach pripravených bez surfaktantu je až 301 m²/g. Teoretická hodnota z modelu dokonalých gúľ je 190 m²/g. Ukazuje sa, že dokonalé odstránenie surfaktantu, hlavne z pórov, je problematické. Relatívne merania magnetických vlastností nanočastíc γ -Fe₂O₃ sa kalibrovali a ukázalo sa, že naše nanočastice majú magnetizáciu nasýtenia blížiacu sa hodnotám bulk materiálu, čo svedčí o dobre zvládanej technológii. Hodnoty sú 62,5 emu/g a 80,6 emu/g pri 300 K resp. 5 K, po vyžihnutí 550°C/1h klesla magnetizácia pri 300 K iba na 61,9 emu/g. V spolupráci s Ústavom informatiky SAV sa zvládli technologické postupy prípravy nového typu substrátov pre senzory plynov z oxidovaného kremíka so zapustenými elektródami a planárnym povrchom, ktorý eliminuje trhanie nanočasticového depozitu na hranách elektród. Ciele projektu na r. 2017 aj za celú dobu riešenia boli splnené.

20.) Prvoprincípové počítačové modelovanie v nanotechnológiách (*First-principles computer modeling in nanotechnology*)

Zodpovedný riešiteľ: Ivan Štich

Trvanie projektu: 1.1.2015 / 31.12.2017

Evidenčné číslo projektu: 2/0162/15

Organizácia je áno

koordinátorom projektu:

Koordinátor: Fyzikálny ústav SAV

Počet spoluriešiteľských 0

inštitúcií:

Čerpané financie: VEGA SAV: 13996 €

Dosiahnuté výsledky:

- Y. Naitoh, R. Turanský, J. Brndiar, Y. J. Li, I. Štich, and Y. Sugawara, Subatomic-scale force vector mapping above a Ge(001) dimer using bimodal atomic force microscopy, Nat. Phys. 13, 663 (2017).

Ukázali sme po prvýkrát, ako je pomocou NCAFM možné zmerať na subatomárnej škále vektorové veličiny. Kombinácia experimentov a DFT simulácií tiež ukázala, ako je možné v prípade zmapovania vektorových veličín experimentálne určiť absolútnu výšku apexu hrotu nad vzorkou.

- D. Dietzel, J. Brndiar, I. Štich, and A. Schirmeisen, Limitations of Structural Superlubricity: Chemical Bonds versus Contact Size, ACS Nano 11, 7642 (2017).

Nekomenzurabilné povrchy by na nanoškále mali teoreticky vykazovať tzv. štruktúrnu superlubricitu, t.j. translačný pohyb bez merateľného trenia. Vskutku takýchto systémov bolo v posledných rokoch zdokumentovaných viac. V práci sme porovnávali sily trenia nanočastíc antimónu na grafit a MoS₂ a zistili, že na grafit boli všetky nanočastice v superlubrickom stave, kdežto na MoS₂ boli superlubrické len relatívne malé nanočastice, kdežto veľké nanočastice s kontaktnou plochou > 15 000 nm² vykazovali "normálne" trenie a pomerne výraznú chemickú väzbu na substrát. Veľké nanočastice na MoS₂ sú totiž schopné emitovať dislokácie, ktoré umožnia aby nanočastica lokálne "zapadla do registra". Toto je zásadne nové pozorovanie, ktoré významným

spôsobom prepisuje teóriu štruktúrálnej superlubricity.

- R. Derian, K. Tokar, B. Somogyi, A. Gali, and I. Štich, Optical Gaps in Pristine and Heavily Doped Silicon Nanocrystals: DFT versus Quantum Monte Carlo Benchmarks, J. Chem. Theory Comput. 13, 6061 (2017).

Práca sa zaoberá schopnosťou DFT funkcionálov modelovať metódami TDDFT (time-dependent DFT) optické gapy čistých a silne B a P dopovaných kryštalických Si nanočastíc. Test je založený na porovnaní s ultrapresnými QMC výpočtami na modelových nanočasticách. Ukázali sme, že vo všeobecnosti najlepšie výsledky dávajú tzv. range-separated hybrid xc-funkcionály, ale aj v tejto triede je veľký rozptyl a skutočne uspokojivé výsledky generujú len zodva funkcionály, tzn., pred každým veľkým výpočtom by sa malo previesť testovanie funkcionálu, prax, ktorú takmer nikto neaplikuje.

- B. Somogyi, R. Derian, I. Štich, and A. Gali, High-Throughput Study of Compositions and Optical Properties in Heavily Co-Doped Silicon Nanoparticles, J. Phys. Chem. C 121, 27741 (2017).

V práci študujeme najmä vplyv distribúcie dopantov na stabilitu klastrov a na ich elektrónové vlastnosti. Toto je mimoriadne dôležitá informácia, nakoľko detailné rozmiestnenie dopantov v klastroch nie je úplne známe ani z experimentálnych štúdií.

21.) 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: 17212 €

Dosiahnuté výsledky:

Vychádzajúc z predošlej štúdie atómovej štruktúry tzv Ksi' (alias epsilon_6) AlMnPd fázy [Frigan et al, Phys. Rev. B 84, 184203 (2011)] sme odvodili štruktúru hypotetického dekadonálneho kvázikryštálu ako aj jeho tzv. "aproximantov". Podľa našej hypotézy overenej kvantovomechanickými DFT výpočtami je táto rodina štruktúr tvorená dláždeniami, ktorých uzly sú dekorované periodickými stĺpcami tzv pseudo-Mackayových klastrov. Navrhli sme, že energeticky najvýhodnejšie dláždenia takýchto stĺpcových klastrov možno predpovedať fitovaním "Hamiltoniánu dláždenia" (Phys. Rev. B). Podobný prístup podložený robustnými termodynamickými výpočtami aplikovanými na ikosaedrálnu AlCuFe rodinu štruktúr sme predniesli na stretnutí C-MAC v Aténach.

V nanokompozite Al-Fe₂O₃ pripravenom in-situ metódou spracovania trením (friction stir processing) sme poukázali na vznik komplexnej fázy Al₁₃Fe₄ v procese prípravy a vysvetlili sme význam jej prítomnosti a spôsobu vzniku pre mechanizmus spevnenia skúmaného kompozitu (publikácia Mat. Char.). Podobne sme preskúmali význam pridávania nanočastíc Ni a Ni-Sn do systému bezolovnatých spájk Sn-Ag-Cu, pomocou analýzy mikroštruktúry, pevnosti v šmyku a mikrotvrdosti sme dokázali, že existuje optimálna koncentrácia nanočastíc vedúca k zlepšeniu mechanických vlastností spájk.

V systémoch magneticky mäkkých materiálov sme ukázali význam povrchových javov a oxidácie pre tvar hysterézných slučiek a koercivitu (publikácia JMMM). Podobné javy sme preskúmali aj na

rýchlochladených dvojvrstvách pre aplikácie v senzoroch magnetických veličín, kde sme ukázali možnosti riadenia magnetických vlastností hrúbkou vrstiev a vhodným termomagnetickým spracovaním (dve pozvané prednášky).

22.) 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: 4174 €

Dosiahnuté výsledky:

Rýchlom ochladením taveniny sme pripravili a preskúmali zmeny štruktúry a vlastností v systéme Al-Co-Dy a Al-Co-Dy-Ho v širokom rozsahu teplôt od amorfneho až po kvapalnú stav pomocou DSC, merania elektrického odporu a in-situ rtg. difrakcie. Stanovili sme aktivačné energie transformácií z amorfneho stavu. Pozorované javy sme diskutovali a korelovali s predstavami o mikroheterogenitách na atomárnej škále, ukázali sme, že prvok Ho zvyšuje stabilitu amorfneho stavu (publikácia v European Physical Journal: Special Topics).

Podobným spôsobom sme analyzovali vývoj mikroštruktúry v systéme Sn-Zn, ukázali sme, že anomálie pri tavení pozorované v DSC dobre korelujú s in-situ rtg. experimentami a potvrdzujú prítomnosť mikrooblastí s usporiadaním na krátku vzdialenosť aj nad rovnovážnou teplotou topenia (publikácie v J Mater Sci: Mater. Electron.).

23.) 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: áno
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA SAV: 18000 €
FÚ SAV: 7337 €

Dosiahnuté výsledky:

Bol pripravený a charakterizovaný terč 20Ne a 22Ne metodikou implantácie nízkoenergetického zväzku do tantalovej podložky. Boli vykonané testy urýchľovača Tandetron so zväzkami protónov a alfa častíc. Bola študovaná jadrová štruktúra izotopu 64Ni.

24.) Memory and causal structures and applications in quantum information processing
(*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: VEGA 2/0173/17
Organizácia je áno
koordinátorom projektu:
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských 0
inštitúcií:
Čerpané financie: VEGA SAV: 6515 €

Dosiahnuté výsledky:

V prvom roku sme pracovali na odhadoch pamäťových kanálov, konkrétne na vývoji optimálnych algoritmov pre ich rozlišovanie. Ďalej sme vyvinuli optimálny protokol pre 1 na N učenie sa unitárnych procesov. Publikovali sme jednu prácu o deliteľnosti kvantových dynamických máp a ich realizácii pomocou kauzálnej siete interakcií.

Programy: APVV

25.) Kvantová informácia mnohočasticových systémov (*Quantum Information of Many Body Systems*)

Zodpovedný riešiteľ: Vladimír Bužek
Trvanie projektu: 1.10.2013 / 30.9.2017
Evidenčné číslo projektu: APVV-0808-12
Organizácia je áno
koordinátorom projektu:
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských 0
inštitúcií:
Čerpané financie: APVV: 35852 €

Dosiahnuté výsledky:

Navrhli sme alternatívny model pre popis magnetizačných procesov v kaplovaných 2D spin-elektrónových systémov, ktorý sme analyzovali rigoróznymi metódami tzv. "generalized decoration-iteration transformation" a numericky pomocou originálne vyvinutých CTMRG algoritmov. Dokázali sme existenciu niekoľkých reentrant fázových prechodov, ktoré sú ovládateľné pomocou teploty, alebo magnetického poľa. Tieto výsledky boli publikované v jednej práci.

26.) 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 Andrej Gendiar
organizácii SAV:
Trvanie projektu: 1.7.2017 / 30.6.2021
Evidenčné číslo projektu:
Organizácia je nie
koordinátorom projektu:

Koordinátor: Ústav experimentálnej fyziky SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 4971 €

Dosiahnuté výsledky:

Pomocou metódy Density Matrix Renormalization Group sme študovali silnokorelovaný kvantový systém, ktorého riešením sú majoranovské hranové stavy, pričom študovaný systém je v supravodivom režime s coulombovskou interakciou lokalizovanou na elektróny na jednom uzle ako aj medzi najbližšími susedmi. Magnetizačné procesy, ktoré vykazujú reentrantné fázové prechody v kvantových spinovo-elektrónových modeloch boli študované pomocou CTMRG algoritmu, ktorý je schopný riešiť aj frustrované systémy (dva články boli opublikované v časopisoch J. Mag. Mat. a Physica B). Vyvinuli sme nový tenzorový algoritmus, pomocou ktorého sme schopní študovať kvantové systémy na fraktálnych štruktúrach (článok je zaslaný na publikovanie a ďalší sa finalizuje). Študovali sme kvantové a klasické mnohočasticové systémy, v ktorých sú krátkodosahové interakcie sprostredkované cez spiny resp. cez elektróny. Zovšeobecnil sme niekoľko odlišných typov numerických algoritmov na báze tenzorových sietí, aby sme mohli vyšetrovať kritické správanie dvojrozmerného dvadsaťstenového spinového modelu pomocou metódy Corner Transfer Matrix Renormalization Group (CTMRG). Tento numerický algoritmus bol následne prepísaný do paralelizovaný C++ kódu a riešený na superpočítači v Japonsku (výsledky boli publikované vo Phys. Rev. E). Okrem toho sme aplikovali metódu CTMRG, aby sme potvrdili hypotézu o slabej univerzalite 6-vertexového spinového modelu (článok vyšiel vo Phys. Rev. E).

27.) Výskum štruktúry hadrónov a previerka Štandardného modelu presnejším vyhodnotením bežiackej väzbovej konštanty QED v M_Z a miónovej $g-2$ anomálie (*Study of hadron structure and the test of Standard Model with the more precise evaluation of QED running coupling constant at M_Z and the muon $g-2$ anomaly*)

Zodpovedný riešiteľ: Stanislav Dubnička
Trvanie projektu: 1.10.2013 / 30.9.2017
Evidenčné číslo projektu: APVV-0463-12
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 15157 €

Dosiahnuté výsledky:

- vyšetrovali sa všetky možné variácie omega-phi zmiešavania a ich vplyv na tvar väzbových konštant f^F , f^D , f^S a na znamienka univerzálnych vektor-mezónových väzbových konštant.
- vyšetrujú novú doteraz najpresnejšiu informáciu o P-vlnovej fáze π - π rozptylu sme prišli k záveru, že doteraz uvádzané oficiálne hodnoty parametrov $\rho(770)$ -mezónovej rezonancie majú byť nahradené menšími hodnotami.
- Pomocou kovariantného modelu kvarkov s infračerveným uväznením sa skúmali rozpady charmovaného B^{+}_c mezónu v súvislosti s objavením sa nových exp. údajov v LHCb a ATLAS kolaborácií v CERN.
- Využívajúc správne hodnoty väzbových konštant v SU(3) invariantnom Lagranžiáne interakcie vektorových mezónov s baryónami, predpovedali sme správanie formfaktorov všetkých hyperónov z $1/2^+$ oktetu baryónov.

Výsledky boli publikované v 3 CC článkoch a v 4 konferenčných príspevkoch.

28.) 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:

V uvedenom období sme sa zamerali na depozíciu tenkých Mo vrstiev pomocou iónového lúča. Tieto Mo vrstvy sú oxidované a následne sulfurizované. Výsledné MoS₂ tenké vrstvy boli charakterizované pomocou RTG rozptylu (GIWAXS). Najdôležitejším výsledkom bolo nájdenie hraničnej hrúbky reorientácie rovín (001) v rozmedzí hrúbok 1-3 nm.

29.) 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 koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 42998 €

Dosiahnuté výsledky:

Návrh a syntéza polymerických molekúl s rôznou dĺžkou použitých ako surfaktanty pre nanočastice Fe₂O₃;
Ovládanie medzičasticovej vzdialenosti vo vrstvách usporiadaných nanočastíc Fe₂O₃ v rozmedzí 6.4 až cca 10 nm pomocou syntetizovaných polymerických molekúl s rôznou dĺžkou surfaktantu;
Príprava nanočastíc WO₃ so zvýšeným obsahom fáze epsilon;
Senzor acetónových pár v rozsahu ppm na báze Al₂O₃;
Senzor vodíka na báze niekoľkých vrstiev grafénu pripravených Langmuir-Schaeferovou metódou;
Súhrnná charakterizácia zmesí Pd a gamma-Fe₂O₃ nanočastíc.

30.) 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 koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 37500 €

Dosiahnuté výsledky:

Po optimalizácii parametrov nanoobrábania metódou SPDT sme sa zamerali na finalizáciu týchto povrchov, a to odstránenie parazitnej povrchovej mriežky v dôsledku deterministického charakteru nanoobrábania. Táto spôsobuje difúzny rtg rozptyl aktívneho povrchu monochromátora a parazitné interferenčné efekty. Klasické chemické leštenie sa ukázalo nevhodné, lebo narušuje planaritu a spôsobuje tzv. morfológiu pomarančovej šupky. Testovali sme preto bombardovanie povrchu Ge(110) po nanoobrábaní iónovým Ar⁺ zväzkom. Použili sme rôzne energie zväzku a časy pri kolmom dopade a aj v kombinácii s cyklickou zmenou uhla dopadu, pričom sme dosiahli strednú kvadratickú hodnotu drsnosti pod 1 nm, ale mriežka nebola úplne odstránená ani pri energii iónov 800 eV. Najlepšie výsledky sme dosiahli ožarovaním nanosekundovým UV laserom vlnovej dĺžky 355 nm, ktoré je dobre absorbované a spôsobuje epitaxnú rekryštalizáciu povrchu. Optimalizovali sme parametre a geometriu ožarovania pri fluencii 1mJ/cm² a dosiahli sme odstránenie periodického zvlnenia povrchu pri lokálnu drsnosti na ploche 10x10 mikrónov pod 1 nm. Výhodou laserového ožarovania je aj možnosť aplikácie na ťažko prístupné povrchy v kanálikových rtg monochromátoroch a krátky čas ožarovania.

Pokračovali sme v simuláciách a návrhu kanálikových rtg monochromátorov metódou "ray tracing". Zamerali sme sa na inovatívnu kvázi-disperznú konfiguráciu kanálikových monochromátorov Ge(111) a Ge(220) ako náhradu tradičného Bartelsovho monochromátora. Cieľom bolo dosiahnuť vysoké rozlíšenie pri vysokej intenzite výstupného zväzku, čo simulácie plne potvrdili. Na základe nášho návrhu bude túto konfiguráciu realizovať firma Integra TDS, s.r.o. Piešťany a následne bude implementovaná do mikrofokusného rtg zdroja vo firme Incoatec Geesthacht GmbH. Pôjde o prvý takýto rtg zdroj so zabudovanou reflexno-difrakčnou optikou vo svetovom meradle.

Dosiahnuté výsledky boli opublikované v 2 CC prácach a v 5 konferenčných príspevkoch.

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

Zodpovedný riešiteľ: Mária Omastová
Zodpovedný riešiteľ v organizácii SAV: Peter Šiffalovič
Trvanie projektu: 1.7.2015 / 30.6.2019
Evidenčné číslo projektu: APVV-14-0120
Organizácia je koordinátorom projektu: nie
Koordinátor: Ústav polymérov SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 12474 €

Dosiahnuté výsledky:

V tomto roku sme vylešili exfoliáciu GO s ohľadom na rozmer flakov. Naším hlavným prínos pre projekt bolo mapovanie živých buniek pomocou Ramanovej mikroskopie. Najdôležitejším výsledkom bola lokalizácia GO v lyzozómoch. Výsledky boli spracované v manuskripte odoslanom do Biophysical Journal.

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

Zodpovedný riešiteľ: Emil Pinčík
Trvanie projektu: 1.7.2016 / 30.6.2019
Evidenčné číslo projektu: APVV-15-0152
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 4 - Česko: 1, Nemecko: 1, Japonsko: 1, Holandsko: 1
Čerpané financie: APVV: 33446 €

Dosiahnuté výsledky:

Pri vyšetrovaní reflektancie vzoriek porézneho kremíka vytvoreného bez osvetlenia na podložke z kryštalickeho kremíka n-typu s hrúbkou približne 0,4 mm metódou IČ spektroskopie ide o meranie štruktúrovaného objektu. V dôsledku toho je registrované reflektančné spektrum ovplyvňované geometriou vzorky a vlastnosťami jej jednotlivých súčastí. V spektre sa potom pomerne často pozorujú interferenčné „prúžky“ v podobe viditeľnej sústavy miním a maxím. Prakticky sa tento efekt dá využiť pri určovaní hrúbky vrstvy, v ktorej dochádza k tejto interferencii (napríklad určením vzdialeností interferenčných maxím resp. miním, ale často ide o nežiadúci artefakt, ktorý prekáža pri ďalšom spracovaní údajov. Vypracovali sme spôsob, ako sa dá tento efekt v prípade vzorky s malou disperziou odfiltrovať s využitím Fourierovskej transformácie. Metóda je založená na tom, že vzorka v princípe pozostáva z dvoch vrstiev: kryštalickej podložky a vrstvy porézneho kremíka na jej povrchu, ktorá je pripravená elektrochemicky opracovaním v roztoku HF+metanol. V dôsledku postupného narastania od vonkajšieho povrchu smerom dovnútra s nasledovným vytvorením oxidov a suboxidov na povrchu je hlbkovo nehomogénna, ale efektívne sa javí ako Fabry-Perotov rezonátor, pričom ako odrazové plochy slúžia jej vonkajší povrch a rozhranie s podložkou.

Overili sme možnosť potlačenia príspevku interferencie, ktorej pôvod predpokladáme v povrchovej poréznej vrstve. Rezonátor je tvorený dvoma rozhraniami s pomerne nízkou odrazivosťou a preto môžeme s dobrou presnosťou predpokladať prítomnosť dvojzväzkovej interferencie vytvárajúcej obraz sínusovej závislosti intenzity na vlnóchte. Metódu je možné priamo rozšíriť aj na prípad viacnásobného odrazu svetla vo vrstve, kde sa okrem základnej zložky priestorového kmitočtu interferencií odstránia aj jeho vyššie harmonické. V budúcnosti predpokladáme využívanie takto získaných údajov pri analýze spektroskopických dát polovodičových vzoriek obsahujúcich vnútorné rozhranie.

33.) Prieskum kvantových sietí pomocou kvantových kráčaní (*Probing quantum networks with quantum walks*)

Zodpovedný riešiteľ: Daniel Reitzner
Trvanie projektu: 1.1.2016 / 31.12.2017
Evidenčné číslo projektu: SK-PT-2015-0029
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 2 - Portugalsko: 2
Čerpané financie: APVV: 645 €

Dosiahnuté výsledky:

V rámci projektu sme pokračovali v načatej spolupráci na témach projektu bez konkrétnych výstupov.

34.) 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: 3237 €

Dosiahnuté výsledky:

V uvedenom období sme evaluovali možnosti využitia konfokálnej Ramanovej mikroskopie (CRM), atomárnej silovej mikroskopie (AFM) a RTG rozptylu (GIWAXS) pre účely charakterizácie grafénu an diamantovom povrchu.

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

Zodpovedný riešiteľ: František Simančík
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: 33000 €

Dosiahnuté výsledky:

Na základe predošlých výsledkov sme pomocou rtg. difrakcie a SEM/EDS analýzy a mechanických testov preskúmali štruktúru a mechanické vlastnosti kompozitov zo zliatin bohatých na horčík spevnených mikrovláknami Al₂O₃ pripravených infiltráciou taveniny. Získali sme takto významné výsledky z hľadiska termodynamiky reakcie Mg s Al₂O₃ a jej reakcie na morfológiu zŕn Mg (publikácia Kov. Mat.). Podobné štúdie sme vykonali na nízkotavitel'ných systémoch Sn-Ag-Cu s pridaním nanočastíc Co (publikácia J. Mat. Sci.: Materials in Electronics) a na systéme Al-Mg s pridaním uhlíkových nanorúrok alebo grafénu metódou reaktívneho spracovania trením (reactive friction stir processing), kde sme poukázali na možnosti zjemnenia zŕn a vytvorenia nanodefektov v závislosti od pridávania prímiesí a intenzity spracovania (dve publikácie Mat. Char.).

S cieľom zjemnenia horčíkových zŕn sme na základe analýzy fázových diagramov zvolili sériu binárnych systémov Mg-X (X = Sn, Sb, Bi, Pb, In, ...) s hlbokým eutektikom v oblasti bohatej na Mg, ktoré sme pripravili ako predzliatiny a následne ako rýchlochladené materiály. Preskúmali sme

ich štruktúru a fázovú stabilitu, v súčasnosti prebiehajú stanovenia rozmerov zŕn a následné experimenty s cieľom nájdenia prímiesy zásadne vplyvajúcej na zníženie rozmerov zŕn a tvorby medzizrnných hraníc vhodných ako cesty pre prienik vodíka do zŕn majoritnej fázy.

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

Zodpovedný riešiteľ: Ondrej Šauša
Trvanie projektu: 1.7.2017 / 30.6.2021
Evidenčné číslo projektu: APVV-16-0369
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 7818 €

Dosiahnuté výsledky:

Zmerali sa doby života ortopozitrónia v rôznych typoch modelových matric, ktoré sa budú používať pre štúdium uväznených systémov. Z dôb života oPs sa stanovili priemerné veľkosti pórov.

Skúmali sa voľnoobjemové charakteristiky 1-propanolu (1-PrOH) ako polárneho modelového média uväzneného v polárnej matrici SBA15 s pravidelne usporiadanými mezopórmami. Podľa charakteru desorpčnej závislosti (závislosť dôb života pozitronov a ich relatívnych intenzít od množstva 1-PrOH v matrici SBA15) sa stanovili dôležité koncentrácie 1-PrOH, pri ktorých sa merali teplotné závislosti dôb života. Z nich sa odvodili veľkosti voľných objemov, ich teplotná expanzia ako aj niektoré dôležité teploty (teplota sklovitého prechodu T_g a teplota nástupu do plató T_{b2}) pre tieto koncentrácie 1-PrOH. Ukázalo sa, že pri vysokom stupni zaplnenia mezopórov dochádza k posunu T_g ku vyšším teplotám oproti bulkovej hodnote $T_g=100$ K. Avšak pri nižšom zaplnení pórov, pri koeficiente plnenia $k=0,25$ nastáva tvorba dodatočných voľných objemov, čo si vysvetľujeme existenciou trhlín v vo vrstve 1-PrOH na stene matrice. Pri ešte menšom množstve média, $k=0,15$, teplotná voľnoobjemová závislosť sa posúva k podstatne vyšším teplotám ($T_g=181$ K) a plató zaniká. Je to dôsledok silného viazania polárnych molekúl 1-PrOH lokalizovaných v tenkej vrstve k stenám polárnej matrice.

Dosiahnuté výsledky boli opublikované v 4 CC prácach a v jednom konferenčnom príspevku.

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

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

Dosiahnuté výsledky:

V uplynulom období sme zdokonalili techniku exfoliácie MoS2 a transfer do vodnej fázy. Taktiež

sme uskutočnili prvé testy viability nefunkcionalizovaného MoS₂. Povrchovú modifikáciu sme realizovali pomocou thiolovaného PEGu ako aj PEGu terminovaného biotínom. Na samousporiadanej vrstve MoS₂ sme uskutočnili prvé merania záchytu avidínu pomocou zobrazovacej elipsometrie. Taktiež sme testovali zobrazenie buniek inkubovaných s MoS₂ pomocou Ramanovej mikroskopie.

38.) 2D-materiály a ich funkcionlizácia (*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 práci publikovanej v Nat. Phys. sme ukázali po prvýkrát, ako je pomocou NCAFM možné zmerať na subatomárnej škále vektorové veličiny. Kombinácia experimentov a DFT simulácií tiež ukázala, ako je možné v prípade zmapovania vektorových veličín experimentálne určiť absolútnu výšku apexu hrotu nad vzorkou.

Nekomenzurabilné povrchy by na nanoškále mali teoreticky vykazovať tzv. štruktúrnu superlubricitu, t.j. translačný pohyb bez merateľného trenia. Vskutku takýchto systémov bolo v posledných rokoch zdokumentovaných viac. V práci v ACS Nano sme porovnávali sily trenia nanočastíc antimónu na grafitu a MoS₂ a zistili, že na grafitu boli všetky nanočastice v superlubrickom stave, kdežto na MoS₂ boli superlubrické len relatívne malé nanočastice, kdežto veľké nanočastice s kontaktnou plochou $> 15\,000\text{ nm}^2$ vykazovali "normálne" trenie a pomerne výraznú chemickú väzbu na substrát. Veľké nanočastice na MoS₂ sú totiž schopné emitovať dislokácie, ktoré umožnia aby nanočastica lokálne "zapadla do registra". Toto je zásadne nové pozorovanie, ktoré významným spôsobom prepisuje teóriu štruktúrnej superlubricity.

Práca v J. Chem. Theory Comput. sa zaoberá schopnosťou DFT funkcionálov modelovať metódami TDDFT (time-dependent DFT) optické gapy čistých a silne B a P dopovaných krystalických Si nanočastíc. Test je založený na porovnaní s ultrapresnými QMC výpočtami na modelových nanočasticiach. Ukázali sme, že vo všeobecnosti najlepšie výsledky dávajú tzv. range-separated hybrid xc-funkcionály, ale aj v tejto triede je veľký rozptyl a skutočne uspokojivé výsledky generujú len zodva funkcionaly, tzn., pred každým veľkým výpočtom by sa malo previesť testovanie funkcionálu, prax, ktorú takmer nikto neaplikuje.

V práci uverejnenej v J. Phys. Chem. študujeme najmä vplyv distribúcie dopantov na stabilitu klastrov a na ich elektrónové vlastnosti. Toto je mimoriadne dôležitá informácia, nakoľko detailné rozmiestnenie dopantov v klastroch nie je úplne známe ani z experimentálnych štúdií.

Vyššie uvedené výsledky sa zaoberajú rôznymi formami materiálov s redukovanou dimenzionalitou. Okrem toho je tesne pred odoslaním do časopisu s najvyšším impakt faktorom práca o 2D fosforéne.

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

Zodpovedný riešiteľ: Ivan Štich
Trvanie projektu: 1.7.2016 / 30.6.2019

Evidenčné číslo projektu: APVV-15-0201
Organizácia je nie
koordinátorom projektu:
Koordinátor: Medzinárodné laserové centrum
Počet spoluriešiteľských 0
inštitúcií:
Čerpané financie: APVV: 7005 €

Dosiahnuté výsledky:

Použitím časovo-závislých DFT techník (TD-DFT) sme študovali UV VIS absorpčné spektrá pre izolované monoméry ligninu syringylu, guaiacylu a p-hydroxyphenol. Tieto boli počítané z TD-DFT oscillator strength pre excitované stavy, pre molekuly vo vákuu a vo variante v prostredí solventov: CH₂Cl₂ (dichlormetan), fenol a v H₂O v C-PCM modeli. Ďalej sme modelovali 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. Fluorescenčné energie z TD-DFT optimalizácie molekúl monomérov v excitovaných stavoch.

Jedná sa o aplikovaný výskum a tieto výsledky sú najmä pre potreby experimentálnych kolegov.

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

Zodpovedný riešiteľ: Peter Švec
Trvanie projektu: 7.1.2016 / 31.12.2019
Evidenčné číslo projektu: APVV-15-0621
Organizácia je áno
koordinátorom projektu:
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských 0
inštitúcií:
Čerpané financie: APVV: 36000 €

Dosiahnuté výsledky:

Na pripravených vzorkách systémov Al-Si-Fe, Al-Si-Co a Al-Si-Ni sme spravili komplexnú štúdiu systematicky mapujúcu vývoj fáz s teplotou pomocou XRD, TEM a STEM na základe údajov z termických analýz (DSC, DTA a vysokoteplotné DTA). Štruktúru skúmaných systémov sme analyzovali aj v roztavenom stave, výsledky vrátane štruktúrnych faktorov v tuhom a roztavenom stave sme korelovali so simuláciami pomocou molekulárnej dynamiky a RMC (Reverse Monte Carlo). V systéme Al-Si-Fe sme na základe analýz usporiadania na krátku vzdialenosť (SRO) a atomárne rozlíšenej chemickej analýzy získanej pomocou STEM+EDS našli podobnosť medzi chemickým SRO rýchloochladeného (amorfného) stavu a štruktúrou Al₉Fe₂Si₂. V prvom stupni kryštalizácie z amorfného stavu sme pozorovali doteraz nepopísanú fázu a stanovili sme jej priestorovú grupu a parametre základnej bunky (publikácia v Mat. Char., online od 11/2017).

V dvoch krátkych kapitolách (Springer) sme popísali výsledky dosiahnuté v skúmaní nových magneticky mäkkých rýchlochladených materiáloch, kde sme prezentovali aj nami navrhnuté systémy na báze (Fe-Co)-Sn-B. Ukázali sme, že tieto systémy sú perspektívne z hľadiska vysokej hodnoty magnetizácie v nasýtení a sú porovnateľné s našimi už klasickými nanokryštalickými materiálmi a vhodne pre optimalizáciu koercivity a tvaru hysterézných slučiek pomocou spracovania pri vhodných teplotách alebo v magnetickom poli (dve publikácie Acta Phys. Polonica).

Využitím vysokopresného merania elektrického odporu pri cyklickom tepelnom spracovaní až do vysokých teplôt a pomocou TEM analýzy sme dokázali navrhnúť stratégiu spevnenia zliatin beta-titánu za súčasného zachovania ťažnosti optimalizáciou žihania v nízkoteplotnej oblasti. Na základe výsledkov sme odvodili štruktúrny a termodynamický model korektne predpovedajúci fázovú a morfológickú štruktúru systému na zachovanie vyrovnaných mechanických vlastností (publikácia Mater. Res. Lett.).

Intermetalické klatráty sú "kietkové" štruktúry na báze atómov stĺpca XIV periodickej tabuľky (Si, Ge...). Vytvárajú sieťové štruktúry s uzlami so štyrmi susedmi, a v tomto zmysle sú príbuzné štruktúre diamantu. Na rozdiel od diamantovej štruktúry 4-koordinované siete vytvárajú charakteristické uzavreté "kietky" s veľkým prázdny priestorom vo vnútri. Dvnútra kietok sa pohodlne zmestia "obrovské" atómy ako napr. bárium; tieto však "vysávajú" elektrický náboj z hostiteľskej kietkovej štruktúry, a musia byť kompenzované substitúciou napríklad atómu zlata za hostiteľský atóm v 4-koordinovanej sieti. Predmetom nášho článku v časopise Nature Communications boli tepelné vlastnosti takejto unikátnej štruktúry, ktorá je jedným z významných potenciálnych termoelektrických materiálov. Jeho efektívnosť spočíva v anomálnej kombinácii solídnej elektrickej vodivosti s nízkou tepelnou vodivosťou. Posledná vlastnosť bola predmetom našej detailnej štúdie. V nej sme popísali presné merania ťažko merateľnej veličiny ako doba života mriežkových excitácií, a vysvetlili sme detailne aspekty presného usporiadania atómov v tejto štruktúre priamymi kvantovo mechanickými výpočtami.

41.) 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:	7.1.2016 / 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:

Na základe našich DFT výpočtov sme vysvetlili neobyčajné katalytické vlastnosti nano-porézneho zlata pripraveného zo zliatiny Al₂Au (publikácia J. Chem. Phys.). Hoci zlato je známe ako chemicky neaktívne, bolo zistené, že defekty v fcc mriežke zlata typu dvojčatenia (twinning boundary defects) vytvárajú na {211} povrchoch nano-porézneho zlata reťazce atómov s nízkou koordináciou CN=6. Tieto nízko-koordinované a vysoko reaktívne reťazce atómov zlata (nazývané W-chains) adsorbujú molekulárny kyslík a umožňujú katalytickú oxidáciu CO prebiehajúcu i pri nízkych (napr. izbových) teplotách.

Mechanické vlastnosti nanokompozitu Al-Mg-SiC pripraveného metódou friction stir processing sme detailne korelovali s mikroštruktúrou. Ukázali sme, že pridanie malého množstva SiC drasticky zlepšuje mechanické vlastnosti nanokompozitu, vysvetlili sme mechanizmus spevňovania a vzťah medzi štruktúrou a mechanickými vlastnosťami na základe modelu spevňovania v dôsledku viacerých mechanizmov (publikácia v MSE A).

42.) 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: 7.1.2016 / 30.6.2020
Evidenčné číslo projektu: APVV-15-0738
Organizácia je koordinátorom projektu: nie
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 24941 €

Dosiahnuté výsledky:

Na vzorkách rýchlochladených fluoridov typu $(\text{LiF}-\text{CaF}_2)\text{-xLaF}_3$ pripravených rôznymi rýchlosťami chladenia a konvenčným pomalým ochladením taveniny sme v spolupráci s hlavným riešiteľom, UACH SAV, detailne preštudovali vznik fáz a porovnali sme ich so štruktúrou konvenčne chladených fluoridov. Ukázali sme, že pri rýchlom ochladení vznikajú popri známých kryštalických fázach aj metastabilné fázy s charakteristickým zložením Ca-La-F zodpovedajúcim zloženiu podľa fázového diagramu a rýchlosti ochladzovania, stanovili sme závislosti mriežkových parametrov od týchto podmienok. Chemicky rozlíšenou mikroskopiou na atomárnej úrovni sme ukázali detaily rozloženia jednotlivých prvkov vo fázach LiF a Ca-La-F (publikácia zaslaná do New J. of Chem.).

43.) 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: 66187 €

Dosiahnuté výsledky:

Boli vyvinuté terčové systémy pre urýchľovač Tandetron. Plynové hospodárstvo pre plynom plnený terč bolo otestované offline a pripravené na online testy. Na oddelenie terčového plynu od vákua iónovodu bola vyvinutá unikátna metóda zvarovania tenkej havarovej fólie a masívnej ocelevej príruby. Ďalej bol skonštruovaný systém pevného terča, chladeného vodou určeného na experimenty s nabitými časticami. Bol pripravený software pre systém zberu dát z germániových a scintilačných detektorov. Laboratórium je pripravené na prvé experimenty v roku 2018.

V oblasti vývoja vákuových systémov transportu rádioaktívnych vzoriek bol realizovaný experiment v iThemba Labs (Južná Afrika), ktorý využil modifikovanú verziu systému TATRA. Bol identifikovaný nový rotačný pás v izotope ^{177}Au , ktorého prítomnosť nie je možné vysvetliť za použitia existujúcich modelov atómových jadier.

Uvedené výsledky boli opublikované v 5 CC prácach.

44.) 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 koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 20160 €

Dosiahnuté výsledky:

Skonstruovali sme interakčný model s nekorelovanými časticami prostredia, ktoré realizujú aditivitu a multiplikativitu generátorov CP rozdeliteľných dynamických máp. Ukázali sme analyticky, že v rámci kvantových kráčaní pre fázovo-modulované veľmi superponované počiatočné stavy nájdeme cestu v $O(M^2 N \log M)$ krokoch. Ďalej sme študovali exaktnú query-zložitosť pre triedu EXACTk,ln. Tieto výsledky boli publikované v troch článkoch.

Programy: SASPRO

45.) 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: 59073 €

Dosiahnuté výsledky:

V druhom roku sme urobili pokrok vo všetkých troch oblastiach projektu, plánované aj objavujúce úplne nové smery a nápady. Rozvinuli sme analýzu rodiny translačne invariantných spinových reťaziek s prekvapivými koreláciami, ktoré porušujú area law. Navyše sú krásne prepojené s nedávnymi výsledkami o univerzalite a zložitosti kvantových prepisovacích Hamiltoniánov. Druhú tému rozvíja objav komprimácie kvantových dôkazov pre prepojenosť základného podpriestoru Hamiltoniánu (ground state connectivity), keď použijeme nepreviazané dôkazy. Garancia nepreviazania nám pomôže overiť, či superpozícia obsahuje celú cyklickú sekvenciu nízkoenergetických stavov. Nakoniec sme otvorili nový smer pre simuláciu kvantových systémov s problémom znamienka (sign problem), tým, ako sme pochopili prišpendlené Hamiltoniány (pinned Hamiltonians) – systémy, v ktorých niekoľko častíc je prinútených byť vo fixovanom stave. Ukázali sme, že nájsť základný stav hoci aj stoquastických a komutujúcich Hamiltoniánov s takýmto prišpendlením môže byť nečakane ťažké.

46.) Vývoj prostriedkov na simuláciu transportu spinu v rastrovej 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 áno
koordinátorom projektu:
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských 0
inštitúcií:
Čerpané financie: SASPRO SAV: 64101 €

Dosiahnuté výsledky:

Práce na simuláciách STM s medzinárodnými partnermi (Čína, Poľsko, Portugalsko, Kórejská republika, Rusko) pokračovali na mnohých technologicky zaujímavých povrchoch. Komplexné magnetické povrchové štruktúry (skyrmions) boli skúmané ab initio, spin dynamika a STM simulačné metódy v spolupráci so skupinami v Nemecku a Maďarsku. 3D-WKB teória kombinovanej nábojovej a vektorovej spinovej dopravy bola aplikovaná na rôzne skyrmionické štruktúry.

Boli publikované 3 práce v CC časopisoch (1x ACS Nano, 2x PRB, celkom IF: 21,6, 9 citácií); 2 príspevky sú zaslané (Nature Comms., Science Adv.), 1 knižná kapitola sa objaví v Springer Proc. Phys.; 6 príspevkov a 4 postery boli prezentované na konferenciách.

47.) 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: 52965 €

Dosiahnuté výsledky:

Od novembra 2016 pôsobí v Piešťanoch nové zariadenie 2MV Tandetron. Je schopné dodať protónový alebo deuterónový lúč s energiou od 100 keV do 4 MeV, taktiež môže urýchliť alfa častice do 6 MeV. Na výrobu neutrónov sa bude využívať hlavne jadrová reakcia $2D(d,n)^3He$. Najmodernejší plynový D2 terčik určený pre výrobu neutrónov je v pokročilom štádiu výstavby. Pre návrh plynového terčika sa po prvýkrát používa havar, kovová zliatina na báze kobaltu. Havar bol zváraný na príruce DN16 pomocou pulznej laserovej techniky v Medzinárodnom laserovom centre (ILC) v Bratislava.

Plánuje sa štúdium $^{20}Ne(p,\gamma)^{21}Na$, $^{20}Ne(\alpha,\gamma)^{24}Mg$, $^{22}Ne(\alpha,\gamma)^{26}Mg$ a $^{22}Ne(p,\gamma)^{23}Na$ reakcií s využitím 2MV Tandetronu pre ich význam v hviezdnej nukleosyntéze. ^{20}Ne a ^{22}Ne terčiky boli vyrobené s použitím 200kV Ion Implanter v spoločnosti Ion Beam Centre (IBC), HZDR, Drážďany, Nemecko. Neónové terčiky boli implantované do tantalových fólií. Charakterizácia implantovaných neónových terčikov bola vykonaná pomocou 6MV Tandetron zariadenia na Slovenskej technickej univerzite (STU), Trnava.

Ďalej boli v CERN-ISOLDE pozorované nové systematické vlastnosti izotopov Au s neutrónovým nedostatkom.

48.) 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: 31194 €
EC: 20796 €

Dosiahnuté výsledky:

V tomto roku bežania projektu sme sa sústredili na tému kvantových kráčaní, kde sme publikovali jeden článok o možnosti vyhľadávania ciest v grafoch. Popri tom sme napísali ďalší článok na tému vyhľadávania pod vplyvom dekoherencie, ktorý je práve v recenznom konaní. Na tému kvantovej nekompatibility máme podaný tiež jeden článok, v ktorom sa venujeme možnosti kompatibility kvantových meraní a kanálov (obzvlášť Pauliho). Výsledky projektu boli prezentované na 3 konferenciách, z toho jedna prednáška bola pozvaná.

Príloha C

Publikačná činnosť organizácie (generovaná z ARL)

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- ADMA03 ŠKORVÁNEK, Ivan - MARCIN, Jozef - CAPIK, Marek - VARGA, Marek - TURČANOVÁ, Jana - KOVÁČ, Jozef - ŠVEC, Peter - JANIČKOVIČ, Dušan - KOVÁČ, František - STOYKA, Volodymyr. Tailoring of functional properties in Fe-based soft magnetic alloys by thermal processing under magnetic field. In *Magnetohydrodynamics*, 2012, vol. 48, no. 2, p. 371-377. (0.413 - IF2011). (2012 - WOS, SCOPUS). ISSN 0024-998X.(international pamir conference on Fundamental and applied MHD).

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2. [1.1] XIA, Zhenjun - HE, Jun - OU, Xiulong - HE, Shuli - ZHAO, Dongliang - YU, Guanghua. Influence of electric field on the microstructures and magnetic softness of FeNi nanoparticle films. In *APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING*. ISSN 0947-8396, 2016, vol. 122, no. 9., WOS

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.

Citácie:

1. [1.1] HORBATSCH, M. - HESSELS, E. A. Evaluation of the strength of electron-proton scattering data for determining the proton charge radius. In *PHYSICAL REVIEW C*. ISSN 2469-9985, 2016, vol. 93, no. 1, 015204., WOS

- ADMB02 AFANASIEV, S.F. - BEKMIRZAEV, R.N. - BASKOV, V.A. - CRUCERU, I. - CONSTANTIN, F. - CRUCERU, M. - CIOLACU, L. - DIRNER, A. - DRYABLOV, D.K. - DUBINCHIN, B.V. - IBADOV, R.M. - IGAMKULOV, Z.A. - IVANOV, V.I. - ISUPOV, A.Yu. - JOMURODOV, D.M. - KRAVČÁKOVÁ, A. - KUZNECOV, S.N. - MALAKHOV, A.I. - MATOUŠEK, Vladislav - NIOLESCU, G. - LEBEDEV, A.I. - L'VOV, A.I. - PAVLYUCHENKO, L.N. - PLEKHANOV, E.B. - POLYANSKY, V.V. - RZHANOV, E.B. - SIDORIN, S.S. - SMIRNOV, V.A. - SOKOL, G.A. - ŠPAVOROVÁ, M. - SULTANOV, M.U. - TURZO, Ivan - VOKÁL, S. - VRLÁKOVÁ, J. New status of the project "éta-nuclei" at the nuclotron. In *Nuclear Physics B - Proceedings Supplements*, 2013, vol. 245, p. 173-176. (2013 - WOS, SCOPUS). ISSN 0920-5632.

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1. [1.1] MOSKAL, P. SEARCH FOR EXOTIC HADRONIC MATTER: TETRAQUARKS, PENTAQUARKS, DIBARYONS AND MESIC NUCLEI. In *ACTA PHYSICA POLONICA B*. ISSN 0587-4254, 2016, vol. 47, no. 1, pp. 97-108., WOS

- ADMB03 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.

Citácie:

1. [1.1] MOSKAL, Pawel - SKURZOK, Magdalena - KRZEMIEN, Wojciech. *Status and Perspectives of the Search for Eta-Mesic Nuclei. In LATIN AMERICAN SYMPOSIUM ON NUCLEAR PHYSICS AND APPLICATIONS. ISSN 0094-243X, 2016, vol. 1753, 030012., WOS*
- ADMB04 BARTOŠ, Erik - DUBNIČKA, Stanislav - DUBNIČKOVÁ, A.Z. - HISAKI, Hayashi. On the precise determination of the differences of rho-meson family parameters. In EPJ Web of Conferences, 2014, vol. 81, 05004. (2014 - WOS, SCOPUS). ISSN 2100-014X.
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1. [1.1] LOMON, Earle L. - PACETTI, Simone. *Analytic pion form factor. In PHYSICAL REVIEW D. ISSN 2470-0010, 2016, vol. 94, no. 5, 056002., WOS*
- ADMB05 DUHAJ, Pavol - ŠVEC, Peter. Micromechanism of crystallization of amorphous-alloys. In Key Engineering Materials, 1990, vol. 40-41, p. 69-86. ISSN 1013-9826.
Citácie:
1. [1.1] ZHAN, Xun - ERNST, Frank. *Crystallization micro-mechanism of near-eutectic amorphous Ni-P. In ACTA MATERIALIA. ISSN 1359-6454, 2016, vol. 104, pp. 274-282., WOS*
- ADMB06 SVOBODA, O. - BLUME, C. - CZYŻYCKI, W. - EPPLE, E. - FABBIIETTI, L. - HLAVÁČ, Stanislav. Verification of electromagnetic calorimeter concept for the HADES spectrometer. In Journal of Physics: Conference Series, 2015, vol. 599, 012026. (2015 - WOS, SCOPUS). ISSN 1742-6588.
Citácie:
1. [1.1] PRZYGODA, Witold. *Production and decay of baryonic resonances in pion induced reactions. In MESON 2016 14TH INTERNATIONAL WORKSHOP ON MESON PRODUCTION, PROPERTIES AND INTERACTION. ISSN 2100-014X, 2016, vol. 130, UNSP 01021., WOS*

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

- ADNA01 STUPAKOV, O. - ŠVEC, Peter. Three-parameter feedback control of amorphous ribbon magnetization. In Journal of Electrical Engineering, 2013, vol. 64, no. 3, p. 166-172. (0.546 - IF2012). (2013 - WOS, SCOPUS, INSPEC). ISSN 1335-3632.
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1. [1.1] STUPAKOV, Alexandr - PEREVERTOV, Oleksiy - ZABLOTSKII, Vitalii. *A System for Controllable Magnetic Measurements of Hysteresis and Barkhausen Noise. In IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT. ISSN 0018-9456, 2016, vol. 65, no. 5, pp. 1087-1097., 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] KUWAHARA, Tomotaka. *Asymptotic behavior of macroscopic observables in generic spin systems. In JOURNAL OF STATISTICAL MECHANICS-THEORY AND EXPERIMENT. ISSN 1742-5468, 2016, 053103., WOS*

- AFC02 FILIP, Peter. Heavy flavor mesons in strong magnetic fields. In 8th International Workshop on Critical Point and Onset of Deconfinement (CPOD 2013), March 11-15, 2013, California, USA : Proceedings of Science (CPOD 2013) 035. - Trieste : SISSA/ISAS, 2013, p. 1-10.
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1. [1.1] SUZUKI, Kei- YOSHIDA, Tetsuya. Cigar-shaped quarkonia under strong magnetic field. In *Physical Review D*, 2016, vol. 93, 051502(R)., WOS
2. [1.1] YOSHIDA, Tetsuya- SUZUKI, Kei. Heavy meson spectroscopy. In *PHYSICAL REVIEW D*, 2016, vol. 94, 074043., WOS
- AFC03 GREENSITE, J. - OLEJNÍK, Štefan. Testing the Yang-Mills vacuum wave functional ansatz in 3+1 dimensions. In Xth Quark Confinement and the Hadron Spectrum, October 8-12, 2012, TUM Campus Garching, Munich, Germany : Proceedings of Science (Confinement X) 054. - Trieste : SISSA/ISAS, 2013, p. 1-8.
Citácie:
1. [1.1] TRZETRZELEWSKI, M. Dirac equation for strings. In *EUROPHYSICS LETTERS*, 2016, vol. 116, 40001., WOS
- AFC04 HODAS, Martin - ŠIFFALOVIČ, Peter - HALAHOVETS, Yuriy - PELLETTA, Marco - VÉGSO, Karol - JERGEL, Matej - MAJKOVÁ, Eva. In-situ GISAXS monitoring of ultrashort period W/B4C multilayer X-ray mirror growth. In Proceedings of the SPIE, 2015, vol. 9588, 958804. (2015 - SCOPUS, WOS). ISSN 0277-786X.
Citácie:
1. [1.1] PRADHAN, P. C. - MAJHI, A. - NAYAK, M. - NAND, Mangla - RAJPUT, P. - SHUKLA, D. K. - BISWAS, A. - RAI, S. K. - JHA, S. N. - BHATTACHARYYA, D. - PHASE, D. M. - SAHOO, N. K. Interface structure in nanoscale multilayers near continuous-to-discontinuous regime. In *JOURNAL OF APPLIED PHYSICS*. ISSN 0021-8979, 2016, vol. 120, no. 4, 045308., WOS
- AFC05 KONÔPKA, M. - TURANSKÝ, R. - DOLTSINIS, N.L. - MARX, D. - ŠTICH, Ivan. Organometallic nanojunctions probed by different chemistries: thermo-, photo-, and mechano-chemistry. In Advances in Solid State Physics: Vol. 48 : Workshop on Solid State Physics, February 24-29, 2008, Berlin, Germany. - Berlin : Springer Verlag, 2009, p. 219-. ISBN 978-3-540-85859-1.
Citácie:
1. [1.1] STANCH, Tim - DREUW, Andreas. Advances in Quantum Mechanochemistry: Electronic Structure Methods and Force Analysis. In *CHEMICAL REVIEWS*. ISSN 0009-2665, 2016, vol. 116, no. 22, pp. 14137-14180., WOS

Príloha D

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

Doc. RNDr. Emil Běták, DrSc.

Názov semestr. predmetu: Nerovnovážne jadrové reakcie

Počet hodín za semester: 15

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

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

Doc. RNDr. Martin Plesch, PhD.

Názov semestr. predmetu: Základy kvantovej teórie informácie

Počet hodín za semester: 28

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

Dr. Rer. Nat. Peter Šiffalovič, PhD.

Názov semestr. predmetu: Analýza povrchov a tenkých vrstiev pomocou elektromagnetického žiarenia

Počet hodín za semester: 18

Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra experimentálnej fyziky

Dr. Rer. Nat. Peter Šiffalovič, PhD.

Názov semestr. predmetu: Fyzika ultrarýchlych dejov

Počet hodín za semester: 18

Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra experimentálnej fyziky

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, Katedra teoretickej fyziky a didaktiky fyziky

Doc. Mgr. Mário Ziman, PhD

Názov semestr. predmetu: Vybrane kapitoly z kvantovej mechaniky

Počet hodín za semester: 26

Názov katedry a vysokej školy: Fakulta Informatiky, Masarykova Univerzita, Fakulta infomatiky

Semestrálne cvičenia:

RNDr. Matej Pivoluska, PhD.

Názov semestr. predmetu: IV054 Kódování, Kryptografie a Kryptografické protokoly

Počet hodín za semester: 52

Názov katedry a vysokej školy: Fakulta Informatiky, Masarykova Univerzita, Katedra teorie programovani

Dr. Rer. Nat. Peter Šiffalovič, PhD.

Názov semestr. predmetu: Praktické cvičenia v rámci predmetu Nanotechnológie

Počet hodín za semester: 2

Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Fakulta elektrotechniky a informatiky

Dr. Rer. Nat. Peter Šiffalovič, PhD.

Názov semestr. predmetu: Špeciálne praktikum pre magisterské štúdium

Počet hodín za semester: 6

Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra experimentálnej fyziky

Semináre:

Terénne cvičenia:

Individuálne prednášky:

Príloha E**Medzinárodná mobilita organizácie****(A) Vyslanie vedeckých pracovníkov do zahraničia na základe dohôd:**

Krajina	D r u h d o h o d y					
	MAD, KD, VTS		Medziústavná		Ostatné	
	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní
Belgicko	Dušan Janičkovič	4			Vladimír Bužek	4
	Dušan Janičkovič	2			Vladimír Bužek	6
	Dušan Janičkovič	2			Vladimír Bužek	2
	Dušan Janičkovič	2			Vladimír Bužek	6
	Štefan Luby	2			Vladimír Bužek	2
					Vladimír Bužek	4
					Mário Ziman	3
Česko	Dušan Janičkovič	1			Monika Benkovičová	8
					Stanislav Dubnička	1
					Peter Filip	2
					Krisztián Palotás	2
					Martin Plesch	1
					Daniel Reitzner	2
					Daniel Reitzner	2
					Daniel Reitzner	4
					Daniel Reitzner	3
					Anton Repko	12
					Anton Repko	12
					Michal Sedlák	1
					Ivan Štich	2
					Martin Veselský	3
Francúzsko	Ladislav Šamaj	56			Michal Bodík	8
	Ladislav Šamaj	49			Marek Mihalkovič	4
					Peter Nádaždy	8
					Peter Šiffalovič	8
Grécko	Peter Švec	3			Martin Veselský	5
	Peter Švec Jr.	3				
Japonsko	Ján Brndiar	17			Ján Brndiar	5
	Andrej Gendiar	37			Ján Brndiar	16
	Ivan Štich	17			Vladimír Bužek	7
					Ivan Štich	6
					Ivan Štich	17
					Ivan Štich	16
					Ivan Štich	5
					Robert Turanský	5
JAR	Matúš Balogh	13				
	Vladislav Matoušek	13				
	Matúš Sedlák	13				
Litva					Vladimír Bužek	3
Malta					Mário Ziman	3
Nemecko	Pareshkumar	4			Vladimír Bužek	4

	Manharbhai Prajapati					
	Pareshkumar Manharbhai Prajapati	3			Daniel Nagaj	5
Poľsko	Krisztián Palotás	6			Daniel Nagaj	3
					Matej Pivoluska	5
					Martin Plesch	5
Portugalsko	Daniel Reitzner	5				
Rakúsko	Štefan Luby	2			Matúš Balogh	1
	Štefan Luby	3			Andrej Gendiar	1
	Igor Mat'ko	7			Jozef Genzor	1
	Igor Mat'ko	7			Marián Krajčí	1
					Marián Krajčí	1
					Roman Krčmár	1
					Roman Krčmár	1
					Vladislav Matoušek	1
					Daniel Nagaj	1
					Daniel Nagaj	1
					Jaroslav Pavličko	4
					Daniel Reitzner	1
					Tomáš Rybár	1
					Matúš Sedlák	1
					Michal Sedlák	1
					Michal Sedlák	5
					Michal Sedlák	2
					Mário Ziman	1
					Mário Ziman	1
					Mário Ziman	1
					Mário Ziman	1
					Mário Ziman	1
Rumunsko					Martin Plesch	5
Rusko	Stanislav Dubnička	12			Erik Bartoš	14
	Stanislav Dubnička	4			Stanislav Dubnička	4
	Peter Filip	9			Andrej Liptaj	14
	Ján Kliman	12			Miroslav Nagy	31
	Ján Kliman	57			Miroslav Nagy	90
	Vladislav Matoušek	19				
Singapur					Vladimír Bužek	6
Švajčiarsko	Matúš Balogh	17			Cyril Adamuščín	9
	Erik Bartoš	9			Peter Filip	12
	Vladislav Matoušek	18			Vojtech Nádaždy	1
	Vladislav Matoušek	17			Martin Plesch	3
	Pareshkumar Manharbhai Prajapati	6				

	Matúš Sedlák	17				
	Michal Sedlák	17				
	Martin Venhart	3				
	Martin Venhart	3				
	Martin Veselský	3				
	Martin Veselský	4				
	Martin Veselský	8				
	Martin Veselský	4				
Švédsko	Krisztián Palotás	3				
Taliansko	Cyril Adamuščín	8			Riyas Subair	30
	Stanislav Hlaváč	4				
Ukrajina					Dmytro Kostyuk	24
USA					Vladimír Bužek	8
Veľká Británia					Vladimír Bužek	2
					Matej Jergel	2
Počet vyslaní spolu	46	525			79	505

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

Krajina	D r u h d o h o d y					
	MAD, KD, VTS		Medziústavná		Ostatné	
	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní
Česko					Dr. František Slanina, CSc.	6
Fínsko					Errka Haapasalo	14
					Roope Uola	3
Grécko					Prof. Evangelos Hristoforov	3
					Prof. Evangelos Hristoforov	2
India					Prof. Sudipta Roy Barman	5
Japonsko					Prof. An Pang Tsai	3
Maďarsko	Dr.József Cseh, DrSc.	10			Andras Bodor	3
					Dr. Mátyás Koniorczyk	3
					Janos Asboth	2
Mexiko					David Dávalos González	11
Nemecko					Prof. Dr. Jürgen Mlynek	3

Portugalsko	Alireza Tafanfar	4				
Rakúsko					Alexey Melnikov	6
Rusko					Ilia Luchnikov	27
					Kamil Magadov	27
Ukrajina					Dr. Olexandr Roik	18
Počet prijatí spolu	2	14			16	136

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

Krajina	Názov konferencie	Meno pracovníka	Počet dní
Česko	81st PMM	Vojtech Nádaždy	5
	AAMP XIV	Daniel Reitzner	3
	ISPMA 14	Tomáš Krajňák	3
Fínsko	NANOENERGY 2017	Emil Pinčík	5
Francúzsko	ESNT 2017	Martin Venhart	7
	Fission 2017	Martin Venhart	5
	MECO 42	Roman Krčmár	5
	SkyMag 2017	Krisztián Palotás	4
Grécko	C-MAC Days	Marek Mihalkovič	7
	EUROMAT 2017	Matej Jergel	4
	HINPW4	Martin Veselský	2
	The 9th Olympiad of the Mind	Štefan Luby	5
Holandsko	QPL/IQSA 2017	Michal Sedlák	7
Chorvátsko	COST workshop -MULTICOMP	Michal Bodík	4
		Peter Šiffalovič	4
India	ICTF 2017	Eva Majková	5
Írsko	Physical Chemistry 2017	Ivan Štich	4
		Ivan Štich	5
Japonsko	2nd ISFM 2017	Ján Brndiar	3
		Ivan Štich	3
		Robert Turanský	3
	82nd IUVESTA Workshop	Emil Pinčík	11
	ICSPM25	Ivan Štich	3
	Nano-S&T	Matej Jergel	6
Kórejská republika	ICAE 2017	Eva Majková	4
Maďarsko	ECOSS 2017	Krisztián Palotás	6
Malta	QE 2017	Vladimír Bužek	3
	StableNextSoll - MP 1307	Eva Majková	6
Nemecko	15th ECOF	Anna Kálosi	5
	Advanced EELS Workshop	Peter Švec Jr.	4

	ECOF 15	Michal Bodík	5
	QI 2017	Daniel Reitzner	5
		Mário Ziman	5
	Spring Meeting of the Condensed Matter Section	Krisztián Palotás	6
Poľsko	DyProSo 2017	Kamil Tokár	8
	EMRS FALL 2017	René Derian	4
		Eva Majková	5
	IWSP 2017	Krisztián Palotás	6
	PPC12	Katarína Čechová	7
		Ondrej Šauša	7
Portugalsko	7th MC, 6th WG Meeting	Eva Majková	4
Rakúsko	14th Russbach School on Nuclear Astrophysics	Pareshkumar Manharbhai Prajapati	7
	AYPT	Martin Plesch	2
	ECTP 2017	Vlastimil Boháč	5
	RQ16	Peter Švec Jr.	5
	Symposium Nanotechnology	Ivan Štich	4
Rusko	DSPIN 2017	Peter Filip	5
Španielsko	Graphene 2017	Michal Bodík	6
		Anna Kálosi	6
		Peter Šiffalovič	6
Švajčiarsko	Physics Beyond Colliders Annual Workshop	Peter Filip	2
Taiwan	TACT 2017	Ján Ivančo	8
Taliansko	Ab initio Spin-orbitronics Research Conference	Krisztián Palotás	8
	EPS-HEP 2017	Erik Bartoš	9
		Andrej Liptaj	9
	EuropaCat 17	Marián Krajčí	5
	PICQUE 2017	Daniel Nagaj	4
		Michal Sedlák	4
	Surfint - Sren V	Róbert Brunner	6
		Emil Pinčík	6
	The Ab-initio Spin-Orbitronics Research Conference	Krisztián Palotás	8
Thajsko	WC SM - 2017	Matej Jergel	6
		Ivan Štich	8
Turecko	SAS – Tubitak	Peter Švec	3
USA	ICOTOM-18	Tomáš Krajňák	10
Spolu	52	65	345

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

Skratky použité v tabuľke C:

14th Russbach School on Nuclear Astrophysics - 14th Russbach School on Nuclear Astrophysics
15th ECOF - 15th European Conference on Organized Films
2nd ISFM 2017 - 2nd International Symposium on
2nd ISFM 2017 - 2nd International Symposium on Recent Trends in Analysis Techniques for Functional Materials and Devices
7th MC, 6th WG Meeting - 7th MC, 6th WG Meeting
81st PMM - 81st Prague Meeting on Macromolecules
82nd IUVESTA Workshop - 82nd IUVESTA Workshop on Plasma-based Atomic Layer Processes
AAMP XIV - Analytic and algebraic methods in physics XIV, Prague
Ab initio Spin-orbitronics Research Conference - Ab initio Spin-orbitronics Research Conference
Advanced EELS Workshop - Advanced EELS Workshop
AYPT - Austrian Young Physicists' Tournament 2017
C-MAC Days - C-MAC Days
COST workshop -MULTICOMP - Multi-Functional Nano-Carbon Composite Materials
DSPIN 2017 - XVII Workshop on High Energy Spin Physics
DyProSo 2017 - 35th International Symposium Dynamical Properties of Solids
ECOF 15 - 15th European Conference on Organized Films
ECOSS 2017 - 33rd European Conference on Surface Science
ECTP 2017 - European Conference on Thermophysical Properties Graz, Austria
EMRS FALL 2017 - The 2017 E-MRS Fall Meeting and Exhibit
EPS-HEP 2017 - EPS Conference on High Energy Physics
ESNT 2017 - Shape coexistence and electric monopole transitions in atomic nuclei
EUROMAT 2017 - European Congress and Exhibition on Advanced Materials and Processes
EuropaCat 17 - EuropaCat 17
Fission 2017 - 6th Workshop on Nuclear Fission and Spectroscopy of Neutron-Rich Nuclei
Graphene 2017 - 7th edition of the largest European Conference and Exhibition in Graphene and 2D Materials
HINPW4 - 4th Workshop of the Hellenic Institute of Nuclear Physics on New Aspects and Perspectives in Nuclear Physics
ICAE 2017 - The 4th International Conference on Advanced Electromaterials
ICOTOM-18 - 18th International Conference on Textures of Materials
ICSPM25 - The 25th International Colloquium on Scanning Probe Microscopy
ICTF 2017 - 17th International Conference on Thin Films
ISPMA 14 - 14th INTERNATIONAL SYMPOSIUM ON PHYSICS OF MATERIALS
IWSP 2017 - 8th International Workshop on Surface Physics
MECO 42 - 42nd Conferences of the Middle European Cooperation in Statistical Physics (MECO)
Nano-S&T - Nano science & Technology 2017
NANOENERGY 2017 - 4th International Conference on Nanotechnology, Nanomaterials&Thin Films for Energy Applications
Physical Chemistry 2017 - 4th International Conference on Physical and Theoretical Chemistry
Physics Beyond Colliders Annual Workshop - Physics Beyond Colliders Annual Workshop
PICQUE 2017 - International Conference on Integrated Quantum Photonics 2017
PPC12 - 12th International workshop on positron and positronium chemistry
QE 2017 - Quantum Europe 2017: Towards the Quantum Technology Flagship
QI 2017 - Quantum Incompatibility 2017 Maria Laach, 28/08/17-01/09/17
QPL/IQSA 2017 - The 14th International Conference on Quantum Physics and Logic (QPL)
RQ16 - The 16th International Conference on Rapidly Quenched and Metastable Materials
SAS – Tubitak - Joint Scientific Workshop Tubitak - SAS on Research Cooperation
SkyMag 2017 - SkyMag 2017
Spring Meeting of the Condensed Matter Section - Spring Meeting of the Condensed Matter Section
StableNextSoll - MP 1307 - StableNextSoll - MP 1307
Surfint - Sren V - 5th Progress in Applied Surface, Interface and Thin Film Science Solar Renewable Energy News
Symposium Nanotechnology - Symposium Nanotechnology
TACT 2017 - 6th TACT International Thin Films Conference
The 9th Olympiad of the Mind - The 9th Olympiad of the Mind
The Ab-initio Spin-Orbitronics Research Conference - The Ab-initio Spin-Orbitronics Research Conference
WC SM - 2017 - Bit's 3rd Annual World Congress of Smart Materials-2017

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

Meno	Spoluautori	Typ ¹	Názov	Miesto zverejnenia	Dátum alebo počet za rok
Mgr. Matúš Balogh		PB	Radiation, heavy ions and radiotherapy	Gymnázium na Golianovej ul., Nitra	11.11.2017
Mgr. Erik Bartoš, PhD.		TV	Komentár v reportáži	RTVS	2017
Doc. RNDr. Emil Běták, DrSc.	-	PB	Hrozby z vesmíru (aj od samotnej „matičky Zeme“)	Dom Quo vadis, Bratislava	7.2.2017
Mgr. Ján Brndiar, PhD.	Ivan Štich	PB	Deň otvorených dverí na FÚ SAV 2017	Fyzikálny ústav SAV	8.11.2017
Mgr. Peter Filip, PhD.		PB	Deň otvorených dverí FÚ SAV, "Antihmota a tmavá hmota"	Pavilon QUTE, FÚ SAV	8.11.2017
Ing. Ján Ivančo, PhD.		EX	Prehliadka laboratórií študentmi Gymnázia J.A. Raymana (Prešov)	FÚ SAV	7.11.2017
Ing. Ján Ivančo, PhD.	Spolupracovníci OMN	PB	Noc výskumníkov	Stará radnica, BA	29.9.2017
Ing. Matej Jergel, DrSc.		PB	DOD 2017, prezentácia výskumných aktivít OMN	http://www.fu.sav.sk/index.php?id=36	8.11.2017
Ing. Matej Jergel, DrSc.		PB	Noc výskumníka, prezentácia výskumných aktivít v OMN	Stará tržnica, Bratislava	29.9.2017
Dr.Rer.Nat. Ing. Mgr. Andrej Liptaj, PhD.		PB	Deň otvorených dverí FÚ SAV 2017	Osobná prednáška	8.11.2017
Prof.,Ing. Štefan Luby, DrSc.	nie sú	PB	70. výročie vynálezu tranzistora	Konferencia o histórii elektrotechniky Banská Štiavnica	2017
Ing. Vojtech Nádaždy, CSc.		iné	Noc výskumníka, prezentácia výskumných aktivít OMN	Stará tržnica	29.9.2017
Doc. RNDr. Martin Plesch, PhD.		PB	Akadémia Trojstenu: Náhodnosť okolo nás	http://akademia.trojstenu.sk/events/	8.12.2017
Doc. RNDr. Martin Plesch, PhD.		TL	Ilkovičova cena má podporiť výchovu vedeckých talentov	Pravda	17.7.2017
Doc. RNDr. Martin Plesch, PhD.		RO	Nočná Pyramída: Martin Plesch - odborník na kvantovú bezpečnosť	https://www.rtvs.sk/radio/archiv/11436/718102	24.7.2017
Doc. RNDr. Martin Plesch, PhD.		TL	Rozhovor: Oceňovanie za rozvoj mimoškolskej činnosti v predmetoch matematika, fyzika, chémia a informatika	PC Revue	17.8.2017
Doc. RNDr. Martin Plesch, PhD.		TL	Špičkoví slovenskí vedci o eurofondoch na vedu: Je to hanba, škandál a odporné divadlo (anketa)	Denník N	2.8.2017

Doc. RNDr. Martin Plesch, PhD.		TL	Vedec podporuje cenu za mimoškolské aktivity učiteľov. Sú nezaplatení a musia to robiť ako hobby	Denník N	13.7.2017
RNDr. Daniel Reitzner, PhD.	Mário Ziman, Daniel Nagaj, Libor Čaha, Diana Cencerová, Tomáš Rybár, Michal Sedlák, Peter Rapčan	iné	Európska Noc výskumníkov 2017	http://www.nocvyskumnikov.sk/	29.9.2017
Mgr. Michal Sedlák, PhD.		PB	Peeping into the Quantum Computing World	http://www.openslava.sk/2017/#!/program	6.10.2017
Mgr. Michal Sedlák, PhD.	Daniel Nagaj, Mário Ziman, Daniel Reitzner, Tomáš Rybár, Libor Čaha	iné	Noc Výskumníkov 2017	http://www.nocvyskumnikov.sk/files/downloads/env2017-ba-map-a-final-1.pdf	29.9.2017
Ing. Peter Švec, DrSc.	Irena Janotová, Peter Švec ml., Dušan Janičkovič	EX	Deň otvorených dverí FÚ SAV	Fyzikálny ústav SAV	8.11.2017
Ing. Peter Švec, DrSc.	Peter Švec ml., Martin Venhart	RO	Príbeh z Fyzikálneho ústavu SAV	Rádio Regina	24.11.2017
Ing. Peter Švec, DrSc.	Peter Švec st., Peter Švec ml.	PB	Vesmírne dni Bratislava - KOVOVÉ SKLO – 3V: VÝSKUM, VÝVOJ, VÝROBA	Aula Gymnázia Ladislava Novomeského v Bratislave	20.10.2017
Mgr. Martin Venhart, PhD.		RO	Ako vyzerá periodická tabuľka chemických prvkov v roku 2017 a ako môže študent strednej školy prispieť k špičkovému výskumu	Rádio Regina Bratislava	28.3.2017
Mgr. Martin Venhart, PhD.		PB	Experiment IS521 v CERNe: Aký tvar majú atómové jadrá	Gymnázium Krupina	18.10.2017
Mgr. Martin Venhart, PhD.		PB	Experiment IS521 v CERNe: Aký tvar majú atómové jadrá	Gymnázium Zvolen	18.10.2017
Mgr. Martin Venhart, PhD.		PB	Experiment IS521 v CERNe: Aký tvar majú atómové jadrá	Stredná priemyselná škola lesnícka v Banskej Štiavnici	18.10.2017
Mgr. Martin Venhart, PhD.		RO	Experiment IS521 v CERNe: Aký tvar majú atómové jadrá a ako nám to môže poslúžiť	Rádio Regina Bratislava	24.11.2017
Mgr. Martin Venhart, PhD.		PB	Experiment IS521: Aký tvar majú atómové jadrá	Gymnázium pre mimoriadne nadané deti Bratislava	11.4.2017
Mgr. Martin Venhart, PhD.		PB	Experiment IS521: Aký tvar majú atómové jadrá	Gymnázium Sučany	10.5.2017
Mgr. Martin Venhart, PhD.		PB	Môj životný príbeh: Z maturitnej lavice do Predsedníctva SAV za 18 rokov	Gymnázium Jána Hollého Trnava	23.11.2017

Mgr. Martin Venhart, PhD.		PB	Odkiaľ sa vzali chemické prvky vo vesmíre	Vedecká kaviareň Košice	29.11.2017
Mgr. Martin Venhart, PhD.		PB	Odkiaľ sa vzali chemické prvky vo vesmíre	Vesmírne dni Bratislava	20.10.2017
Mgr. Martin Venhart, PhD.		IN	Slovenský jadrový fyzik stojí za najnebezpečnejším vynálezom v rámci celého CERN-u	www.startitup.sk	27.12.2017
Mgr. Martin Venhart, PhD.		PB	Veda pri víne: Ako vyzerá periodická tabuľka chemických prvkov v roku 2017	Cyklus veda pri víne: Trnava	26.4.2017
Mgr. Martin Venhart, PhD.		PB	Vedecká cukráreň CVTI: Ako vyzerá periodická tabuľka prvkov v roku 2017	CVTI Bratislava	28.3.2017
Doc. Mgr. Mário Ziman, PhD		TL	Kvantové šifrovanie	https://www.pcrevue.sk/a/Obsah-PC-REVUE-11-2017	9.11.2017
Doc. Mgr. Mário Ziman, PhD		PB	Kvantovy svet	https://www.youtube.com/watch?v=0m0Ll5UxCUU	29.9.2017
Doc. Mgr. Mário Ziman, PhD		IN	Žiadne jablko nepadlo kvantovému fyzikovi do cesty	http://www.eductech.sk/novinky/cesta-k-povolaniu-ziadne-jablko-nepadlo-quantovemu-fyzikovi-do-cesty/	6.11.2017
Doc. Mgr. Mário Ziman, PhD	Daniel Reitzner, Daniel Nagaj, Libor Caha, Diana Cencarová, Tomáš Rybár, Michal Sedlák, Peter Rapčan	iné	Doba kvantová	http://nocvyskumnikov.sk/	29.9.2017
Mgr. Andrej Gendiar, PhD.		PB	Jarná škola FX 2017	https://fx.fks.sk/jarna_skola_fx/2017/	1
Mgr. Andrej Gendiar, PhD.		PB	Vanovičove dni (50. ročník), Gymnázium VPT Martin	https://sites.google.com/site/vanovicovedni/2017-martin	1
Mgr. Andrej Gendiar, PhD.	CVKI oddelenie	PB	Noc výskumníkov	http://www.nocvyskumnikov.sk/program/mesto-bratislava.html	1
Mgr. Andrej Gendiar, PhD.	D. Nagaj	PB	Deň otvorených dverí FÚ SAV	http://www.fu.sav.sk/index.php?id=36	1
Mgr. Daniel Nagaj, PhD.		PB	Kvantová kryptografia	Deň výskumníkov, Elektrárňa Piešťany	1
Mgr. Daniel Nagaj, PhD.		PB	Svet ako výpočet	Stará tržnica, Bratislava	1
Doc. RNDr. Martin Plesch, PhD.	František Kundracik, Martin Chudiak	iné	Olympiáda mladých vedcov	www.ijso.sk	6

Doc. RNDr. Martin Plesch, PhD.	František Kundracik, Matej Badin, Natália Ružičková	iné	Turnaj mladých fyzikov	www.tmfsrc.sk	7
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¹ PB - prednáška/beseda, TL - tlač, TV - televízia, RO - rozhlas, IN - internet, EX - exkurzia, PU - publikácia, MM - multimédia, DO - dokumentárny film