Fyzikálny ústav SAV

Správa o činnosti organizácie SAV
za rok 2015

Bratislava
január 2016

Obsah osnovy Správy o činnosti organizácie SAV za rok 2015

PRÍLOHY

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.
Člen snemu SAV: RNDr. Katarína Gmucová, CSc.
Adresa: Dúbravská cesta 9, 845 11 Bratislava 45

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Názvy a adresy detašovaných pracovísk:

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

Vedúci detašovaných pracovísk:

- **Spoločné pracovisko ElÚ 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	110	87	23	22	7	104	80,88	60,89
Vedeckí pracovníci	68	64	4	10	1	66	58,25	57,75
Odborní pracovníci VŠ	27	15	12	12	5	23	9,71	3,14
Odborní pracovníci ÚS	15	8	7	0	1	15	12,92	0
Ostatní pracovníci	0	0	0	0	0	0	0	0

K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2015 (uvádzať zamestnancov v pracovnom pomere, vrátane riadnej materskej dovolenky, zamestnancov pôsobiacich v zahraničí, v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zboroch)
F – fyzický stav zamestnancov k 31.12.2015 (bez riadnej materskej dovolenky, zamestnancov pôsobiacich v zahraničí v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zboroch)
P – celoročný priemerný prepočítaný počet zamestnancov
T – celoročný priemerný prepočítaný počet riešiteľov projektov

M, Ž – muži, ženy

Tabuľka 1b Štruktúra vedeckých pracovníkov (kmeňový stav k 31.12.2015)

Rodová skladba	**Pracovníci s hodnosťou**				**Vedeckí pracovníci v stupňoch**		
	DrSc.	**CSc./PhD.**	**prof.**	**doc.**	**I.**	**IIa.**	**IIb.**
Muži	15	48	3	4	15	32	17
Ženy	1	3	0	0	1	2	1

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	12	12	12	3	3	5	12	5	11
Ženy	0	1	1	0	0	0	2	1	0

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2015

	Kmeňoví zamestnanci	**Vedeckí pracovníci**	**Riešitelia projektov**
Muži	48,0	49,7	46,4
Ženy	46,6	54,2	51,0
Spolu	47,7	50,0	46,7

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 Maťko, CSc. a Mgr. Martin Venhart, PhD.
Externí členovia: prof. RNDr. Tibor Hianik, DrSc. (FMFI UK); prof. Ing. Jozef Janovec, DrSc. (MTF STU) a prof. Ing. Vladimír Nečas, PhD. (FEI STU).
Predsedom VR je Mgr. Martin Veselský, PhD. a podpredseda doc. Mgr. Mário Ziman, PhD.

Na Fyzikálnom ústave je pracovníkom v dôchodkovom veku umožnené získať status Emeritný pracovník/čka. Takým spôsobom môžu kontinuálne pokračovať vo svojej vedeckej činnosti, napr. ukončením projektov alebo inou formou. Doteraz status Emeritný pracovní/čka získali: RNDr. Mária Hartmanová, DrSc.; RNDr. Emília Illeková, DrSc.; prof., RNDr. Eva Majerníková, DrSc.; RNDr. Peter Mrafko, CSc.; RNDr. Anton Šurda, CSc. a RNDr. Gabriel Vlasák, CSc. V roku 2015 status emeritného zamestnanca získal Ing. Ľudovít Kubičár, DrSc..

2. Vedecká činnosť

2.1. Domáce projekty

Tabuľka 2a Počet domácich projektov riešených v roku 2015

ŠTRUKTÚRA PROJEKTOV	Počet projektov		Čerpané financie za rok 2015 (v €)		
	A	B	A		B
			spolu	pre organi-záciu	
1. Vedecké projekty, ktoré boli r. 2015 financované VEGA	20	4	142894	134212	15976
2. Projekty, ktoré boli r. 2015 financované APVV	13	4	494918	389362	77232
3. Projekty OP ŠF	1	6	1472894	1472894	488140
4. Projekty centier excelentnosti SAV	1	0	21143	21143	-
5. 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 Počet návrhov domácich projektov podaných v roku 2015

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2015	Bratislava	9	3
2. Projekty výziev OP ŠF podané r. 2015	Bratislava		
	Regióny		

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2015

Tabuľka 2c Počet medzinárodných projektov riešených v roku 2015

ŠTRUKTÚRA PROJEKTOV	Počet projektov		Čerpané financie za rok 2015 (v €)		
			A		
	A	B	spolu	pre organizáciu	B
1. Projekty 7. Rámcového programu EÚ	1	1	149369	61319	38425
2. Multilaterálne projekty v rámci vedeckých programov COST, ERANET, INTAS, EUREKA, ESPRIT, PHARE, NATO, UNESCO, CERN, IAEA, ESF (European Science Foundation), ERDF a iné	4	8	39916	39916	18250
3. Projekty v rámci medzivládnych dohôd o vedecko-technickej spolupráci	1	0	3000	3000	-
4. Bilaterálne projekty	4	2	24000	24000	25000
5. Podpora medzinárodnej spolupráce z národných zdrojov (MVTS, APVV,...)	1	5	19000	19000	15333
6. Iné projekty financované alebo spolufinancované zo zahraničných zdrojov	0	1	-	-	-

A - organizácia je nositeľom projektu
B - organizácia sa zmluvne podieľa na riešení projektu

2.2.2. Medzinárodné projekty v 7. RP EÚ a Horizont 2020 podané v roku 2015

Tabuľka 2d Počet projektov 7. RP EÚ a Horizont 2020 v roku 2015

	A	B
Počet podaných projektov v 7. RP EÚ		
Počet podaných projektov Horizont 2020		

A - organizácia je nositeľom projektu
B - organizácia sa zmluvne podieľa na riešení projektu

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

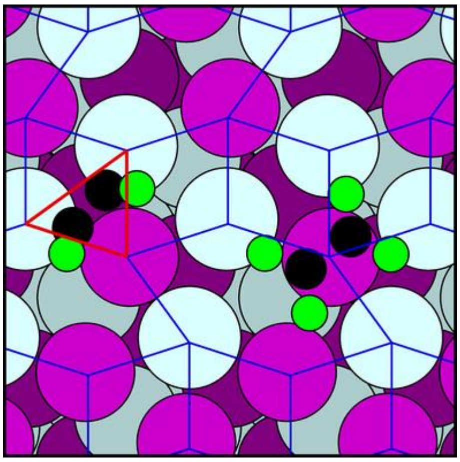
2.2.3. Zámery na čerpanie štrukturálnych fondov EÚ v ďalších výzvach

2.3. Najvýznamnejšie výsledky vedeckej práce

2.3.1. Základný výskum

1. miesto: Unikátne katalytické vlastnosti povrchov intermetalických zliatin
Riešitelia: M. Krajčí a kol., Oddelenie fyziky kovov
Projekty: VEGA 2/0189/14, APVV 0495-11, CEX FUN-MAT

V prácach sme študovali atómovú štruktúru a neobyčajné katalytické vlastnosti povrchov intermetalických zliatin. Objasnili sme reakčný mechanizmus katalytickej selektivity pri reakcii metanolu s vodou na povrchoch troch izoštruktúrnych zliatin NiZn, PdZn a PtZn [1]. Táto reakcia metanolu sa využíva na produkciu vodíka pre palivové články. Reakcia methanolu s vodou tzv. methanol steam reforming reakcia (MSR) umožňuje získať až 6 atómov vodíka na jednu molekulu CO2. Ako možný katalyzátor pre MSR reakciu boli testované desiatky rôznych kovových zliatin. Kľúčovým problémom sa popri teplotnej stabilte katalyzátora ukazuje jeho selektivita. Prevažná väčšina zliatin produkuje pri MSR reakcii popri CO2 aj neprijateľný CO. Povrch Pd(111) je výborný dehydrogenačný katalyzátor, avšak produkuje okrem H2 takmer výlučne CO miesto CO2. Naopak, napr. povrch zliatiny PdZn má požadovanú CO2 selektivitu. Okrem objasnenia mechanizmu selektivity MSR sme aj navrhli spôsoby jej optimalizácie. Aj ďalšie práce sú venované atómovej štruktúre povrchov intermetalických zliatin [2,3], ich chemickej reaktivite [2] a katalytickým vlastnostiam [2,4,5].



Obr.: Schéma katalýzy hydrogenácie acetylénu na povrchu intermetalickej zliatiny GaPd [2].

[1] KRAJČÍ, Marián - TSAI, A.-P. - HAFNER, J. Understanding the selectivity of methanol steam reforming on the (111) surfaces of NiZn, PdZn and PtZn: Insights from DFT. In Journal of Catalysis, 2015, vol. 330, p. 6-18. (6.921 - IF2014). (2015 - Current Contents). ISSN 0021-9517. Typ: ADCA
[2] KRAJČÍ, Marián - HAFNER, J. Intermetallic Compounds as Selective Heterogenous Catalysts: Insights from DFT, ChemCatChem (2015), DOI: 10.1002/cctc.201500733, in print, . IF = 4.556 (2014). Typ: ADCA
[3] HAFNER, J. - KRAJČÍ, Marián. Surfaces of complex intermetallic compounds: Insights from density functional calculations. In Accounts of Chemical Research, 2014, vol. 47, no. 11, p. 3378-3384. (24.348 - IF2014). (2014 - Current Contents). ISSN 1554-8929. Typ: ADCA
[4] KRAJČÍ, Marián - HAFNER, J. Semihydrogenation of acetylene on the (010) surface of GaPd2: Ga enrichment improves selectivity. In Journal of Physical Chemistry C, 2014, vol. 118, no. 23, p. 12285-12301. (4.772 - IF2014). (2014 - Current Contents, WOS, SCOPUS). ISSN 1932-7447. Typ: ADCA
[5] KRAJČÍ, Marián - HAFNER, J. Selective semi-hydrogenation of acetylene: Atomistic scenario for reactions on the polar threefold surfaces of GaPd. In Journal of Catalysis, 2014, vol. 312, p. 232-248. (6.921 - IF2014). (2014 - Current Contents). ISSN 0021-951. Typ: ADCA

Ďalej bez udania poradia:

Názov výsledku: Štatistická mechanika coulombovských systémov
Riešitelia: L. Šamaj a kol., Oddelenie fyziky komplexných systémov
Projekty: VEGA 2/0049/12, VEGA 2/0015/15

V sérii prác sa zaoberáme štatistickou mechanikou systémov častíc interagujúcich cez coulombovský potenciál, pričom sa sústreďujeme na presné výsledky. Zatiaľ čo vysokoteplotné vlastnosti coulombovských systémov sú adekvátne popísané lineárnou Debye-Huckelovou (resp. nelineárnou Poisson-Boltzmannovou) teóriou stredného poľa, pre nízke teploty neexistuje adekvátna teória popisujúca anomálne javy ako je napr. efektívne priťahovanie rovnakých nábojov v plazme. V prehľadovom článku [1] zhrňujeme vlastné výsledky založené na rozvoji termodynamických veličín okolo Wignerovho kryštálu, ktoré dávajú výborné výsledky ďaleko za hranicou stability kryštálu. Proces vybratia častice z Wignerovho kryštálu (pri nulovej teplote) vedie k fázovej transformácii mriežky v okolí častice od koordinačného čísla 6 k 3 [2]. Fázový diagram a kritické vlastnosti dvojvrstiev častíc interagujúcich cez tienený yukawovský potenciál pri nulovej teplote boli študované v práci [5]. V prípade 2D coulombovských systémov existuje špeciálna teplota, pre ktorú je možné mapovať štatistický klasický model na kvantový systém voľných fermiónov a takto vyriešiť štatistickú mechaniku v nehomogénnych situáciách s hranicou [3,6]. V prípade cylindrických a sférických foriem nabitých koloidov v plazme mobilných kladných a záporných nábojov je možné odvodiť formuly pre ich efektívne náboje vo veľkých vzdialenostiach od koloidov [4]. Pre systémy častíc v doménach so zakrivenými nabitými stenami sme v rámci Poisson-Boltzmannovho priblíženia vygenerovali presné rozklady do vysokých rádov pre kontaktnú hustotu častíc a pre termodynamické veličiny [7].

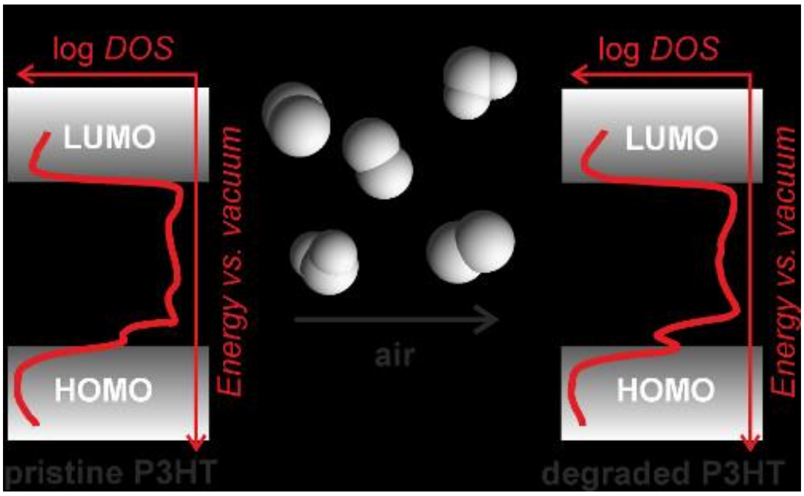
[1] ŠAMAJ, Ladislav - TRIZAC, E. The Wigner strong-coupling approach : Chapter 8. In Electrostatics of Soft and Disordered Matter. - Stanford CA : Pan Stanford Publishing, 2014, p. 93-105. ISBN 978-981-4411-85-1. Typ: ABC
[2] ANTLANGER, M. - MAZARS, M. - ŠAMAJ, Ladislav - KAHL, G. - TRIZAC, E. Taking one charge off a two-dimensional Wigner crystal. In Molecular Physics, 2014, vol. 112, no. 9-10, p. 1336-1349. (1.642 - IF2013). (2014 - Current Contents). ISSN 0026-8976. Typ: ADCA
[3] ŠAMAJ, Ladislav - TRIZAC, E. Counter-ions between or at asymmetrically charged walls: 2D free-fermion point. In Journal of Statistical Physics, 2014, vol. 156, p. 932-947. (1.284 - IF2013).

(2014 - Current Contents, WOS, SCOPUS). ISSN 0022-4715. Typ: ADCA
[4] ŠAMAJ, Ladislav - TRIZAC, E. Effective charge of cylindrical and spherical colloids immersed in an electrolyte: the quasi-planar limit. In Journal of Physics A: Mathematical and Theoretical, 2015, vol. 48, no. 26, 265003. (1.583 - IF2014). (2015 - Current Contents). ISSN 1751-8113. Typ: ADCA
[5] TRAVĚNEC, Igor - ŠAMAJ, Ladislav. Phase diagram and critical properties of Yukawa bilayers. In Physical Review E. Statistical, Nonlinear and Soft Matter Physics, 2015, vol. 92, 022306. (2.288 - IF2014). (2015 - Current Contents). ISSN 1539-3755. Typ: ADCA
[6] ŠAMAJ, Ladislav. Counter-Ions near a charged Wall: Exact Results for Disc and Planar Geometries. In Journal of Statistical Physics, 2015, vol. 161, no. 1, p. 227-249. (1.202 - IF2014). (2015 - Current Contents). ISSN 0022-4715. Typ: ADCA
[7] L. ŠAMAJ and E. Trizac: "Poisson-Boltzmann thermodynamics of counterions confined by curved hard walls", Physical Review E 93, 012601 (2016). Typ: ADCA

2.3.2. Aplikačný typ

1. miesto: Nová metóda diagnostiky defektov v organických polovodičoch a pokročilé organické fotovoltické štruktúry so zlepšenými vlastnosťami
Riešitelia: K. Gmucová, M. Jergel a kol., Oddelenie multivrstiev a nanoštruktúr
Projekty: APVV-0096-11, VEGA 2/0041/11, VEGA 2/0157/12, VEGA 2/0165/13, VEGA 1/0501/15, CE FUN-MAT, SAS-NSC JRP 2011/05, SAS-TUBITAK JRP 2013/6, COST Action CM1101

Elektronická pásová štruktúra polovodičov, vyjadrovaná cez hustota stavov, výrazne ovplyvňuje funkčnosť fotovoltických systémov na báze organických polovodičov. Na mapovanie tejto štruktúry v organických polovodičoch bola vyvinutá nová spektroskopická metóda, elektrochemická impedančná spektroskopia (EIS) s energetickým rozlíšením, ktorá poskytuje priamu informáciu o hustote stavov v širokom energetickom intervale od pásu HOMO po LUMO.
Štandardne používaná organická prechodová vrstva pre odvod dier v organickom solárnom článku na báze polymér-fulerén bola nahradená ožiarením oxidu ITO na prednej elektróde UV svetlom a ozónom. Časom expozície bola optimalizovaná výstupná práca, čím sa dosiahlo zjednodušenie prípravy a podstatné zvýšenie stability článku. Funkcionalizáciou takejto prednej elektródy pomocou zlatých plazmonických nanočastíc a nanotyčiniek sa zvýšila účinnosť článku až o 20%. Pre použitie článkov v reálnych podmienkach boli vyvinuté cenovo výhodné superhydrofóbne povlaky organických solárnych článkov so samočistiacimi a protinámrazovými vlastnosťami, ktoré navyše zvyšujú účinnosť článkov zlepšenými optickými vlastnosťami.



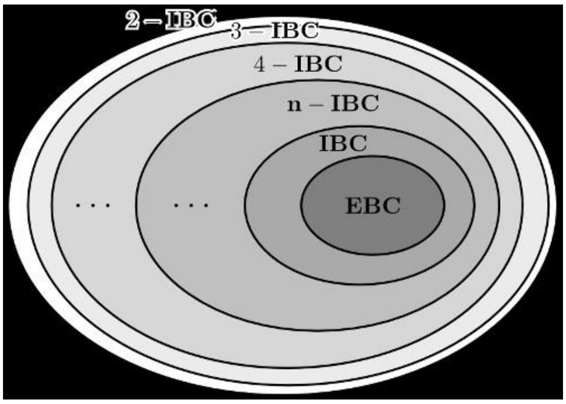
Obr.: Zmena hustoty stavov v zakázanom páse polyméru P3HT vplyvom vlhkej kyslíkovej atmosféry mapovaná metódou EIS.

[1] GMUCOVÁ, Katarína - NÁDAŽDY, Vojtech - SCHAUER, F. - KAISER, Michal - MAJKOVÁ, Eva. Electrochemical spectroscopic methods for the fine band gap electronic structure mapping in organic semiconductors. In Journal of Physical Chemistry C, 2015, vol. 119, no. 28, p. 15926-15934. (4.772 - IF2014). (2015 - Current Contents). ISSN 1932-7447. Typ: ADCA
[2] NÁDAŽDY, Vojtech - SCHAUER, F. - GMUCOVÁ, Katarína. Energy resolved electrochemical impedance spectroscopy for electronic structure mapping in organic semiconductors. In Applied Physics Letters, 2014, vol. 105, no. 14, 142109. (3.515 - IF2013). (2014 - Current Contents). ISSN 0003-6951. Typ: ADCA
[3] VOJTKO, Andrej - JERGEL, Matej - NÁDAŽDY, Vojtech - ŠIFFALOVIČ, Peter - KAISER, Michal - HALAHOVETS, Yuriy - BENKOVIČOVÁ, Monika - IVANČO, Ján - MAJKOVÁ, Eva - EROLA, Markus O.A. - SUVANTO, S. - PAKKANEN, Tuula T. Towards organic solar cells without the hole transporting layer on the plasmon-enhanced ITO electrode. In Physica Status Solidi A, 2015, vol. 212, no. 4, p. 867-876. (1.616 - IF2014). (2015 - Current Contents). ISSN 1862-6300. Typ: ADCA
[4] ŠIFFALOVIČ, Peter - JERGEL, Matej - BENKOVIČOVÁ, Monika - VOJTKO, Andrej - NÁDAŽDY, Vojtech - IVANČO, Ján - BODÍK, M. - DEMYDENKO, M. - MAJKOVÁ, Eva. Towards new multifunctional coatings for organic photovoltaics. In Solar Energy Materials and Solar Cells, 2014, vol. 125, p. 127-132. (5.030 - IF2013). (2014 - Current Contents). ISSN 0927-0248. Typ: ADCA

2.3.3. Medzinárodné vedecké projekty

1. miesto: Kvantová nekompatibilita
Riešitelia: D. Reitzner a kol., Centrum pre výskum kvantovej informácie
Projekty: SASPRO 0055/01/01, APVV-14-0878, APVV-0808-12, VEGA 2/0151/15, VEGA 2/0125/13, VEGA 2/0127/11

Existencia nekompatibilných prístrojov je jednou zo základných charakteristík kvantových systémov, ktorej dôsledkom sú prakticky všetky kvantové no-go teorémy (nesúmerateľnosť komplementárnych fyzikálnych veličín, no-cloning teorém, no information without disturbance, atď.). V našich prácach sme ukázali niekoľko zaujímavých vlastností kvantovej nekompatibility, analyzovali sme dynamické vlastnosti tohto konceptu (konkrétne podmienky, za ktorých sa nekompatibilita zo systému úplne vytráca a teda podmienky pri ktorých kvantové protokoly nebudú fungovať) a začali sme študovať tento kvantový jav pre vlastnosti kvantovej dynamiky. Ukázali sme, že v tomto prípade má nekompatibilita úplne nové kvalitatívne vlastnosti a teda je možné, že bude poskytovať kvalitatívne nové aplikácie v oblasti kvantového spracovania informácie. Na problematike sme spolupracovali s kolegami zo zahraničia (Fínsko, Veľká Británia, Japonsko, Taliansko a Čína) a v ostatných dvoch rokoch napísali 7 prác týkajúcich sa tejto problematiky. Jedna z týchto prác je pozvaným prehľadom o kvantovej nekompatibilite, ktorý bude publikovaný v časopise Journal of Physics A.



Obr.: Nekompatibilita je jedným z dôležitých nástrojov na odhaľovanie kvantovosti. Ako sme ukázali, jej štruktúra (množiny označené IBC - incompatibility breaking channels) je bohatšia ako korešpondujúca štruktúra popisujúca previazanie (množina EBC - entanglement breaking channels).

[1] HEINOSAARI, Teiko - MYIADERA, Takayuki - ZIMAN, Mário. Invitation to quantum incompatibility. In PREPRINT/Quant-ph, 1511.07548, 2015. Typ: AFI
[2] SEDLÁK, Michal - REITZNER, Daniel - CHIRIBELLA, G. - ZIMAN, Mário. Incompatibility of quantum testers. In PREPRINT/Quant-ph, 1511.00976, 2015. Typ: AFI
[3] HEINOSAARI, T. - KIUKAS, J. - REITZNER, Daniel - SCHULTZ, J. Incompatibility breaking quantum channels. In Journal of Physics A: Mathematical and Theoretical, 2015, vol. 48, 435301. (1.583 - IF2014). (2015 - Current Contents). ISSN 1751-8113. Typ: ADCA
[4] HEINOSAARI, T. - KIUKAS, J. - REITZNER, Daniel. Noise robustness of the incompatibility of quantum measurements. In Physical Review A, 2015, vol. 92, 022115. (2.808 - IF2014). (2015 - Current Contents). ISSN 1050-2947. Typ: ADCA
[5] HEINOSAARI, T. - KIUKAS, J. - REITZNER, Daniel. Coexistence of effects from an algebra of two projections. In Journal of Physics A, 2014, vol. 47, 225301. (1.687 - IF2013). (2014 - Current Contents). ISSN 1751-8113. Typ: ADCA
[6] HEINOSAARI, T. - SCHULTZ, J. - TOIGO, A. - ZIMAN, Mário. Maximally incompatible quantum observables. In Physics Letters A, 2014, vol. 378, p. 1695-1699. (1.626 - IF2013). (2014 - Current Contents, WOS, SCOPUS). ISSN 0375-9601. Typ: ADCA
[7] HEINOSAARI, T. - MIYADERA, T. - REITZNER, Daniel. Strongly incompatible quantum devices. In Foundations of Physics, 2014, vol. 44, no. 1, p. 34-57. (1.144 - IF2013). (2014 - Current Contents). ISSN 0015-9018. Typ:ADCA

Ďalej bez udania poradia:

Názov výsledku: Charakteristické vlastnosti pások pripravených rýchlym ochladením taveniny a ich doménová štruktúra
Riešitelia: B. Butvinová a P. Butvin, Oddelenie fyziky kovov
Projekty: MAD SK-PL 2013-2015, VEGA 2/0056/12, VEGA 2/0189/14, VEGA 2/0037/15, APVV-0492-11

Pri skúmaní efektov makroskopickej heterogenity(MH) na magnetické vlastnosti pások pripravených rýchlym ochladením taveniny sme dospeli k potrebe zobrazenia povrchovej anizotropie (súvisiacej s vplyvom povrchov na vnútro pásky) pomocou magnetickej doménovej štruktúry (DŠ) vo väčšom zornom poli (aby bolo možné naraz pozorovať celú originálnu alebo aspoň polovičnú šírku pásky: 5-10 mm). Takéto zariadenie - DE MOKE (digitally enhanced magneto-optical Kerr effect) vyvinuli v IF PAN (Institut Fizyki, Polska Akademia Nauk, Warszawa). Najvýraznejšia vlastnosť, ktorú metóda s veľkým zorným poľom odhaľuje je priečna MH: DŠ pri okrajoch pásky sa výrazne odlišuje od centrálnej oblasti širších (b>5 mm) pások. Existencia a pomerné plošné zastúpenie oblastí s DŠ rôzneho charakteru pomáha vysvetliť tvar, a teda základnú charakteristiku hysteréznych slučiek materiálu – pásky pôvodnej, „aplikačnej“ šírky. Vďaka tejto spolupráci sa nám podarilo objasniť pôvod kompresívneho napätia pochádzajúceho z rôznosti povrchov a vnútra pások a pochopiť vplyv MH na ich výsledné magnetické vlastnosti.

[1] BUTVIN, Pavol - BUTVINOVÁ, Beata - KUZMINSKI, M. - ŚLAWSKA-WANIEWSKA, A. – SITEK, J. – MAŤKO, Igor. - KADLEČÍKOVÁ, M., Effect of surface of FeNbCuBSiP ribbons. In Acta Physica Polonica A, 2014, vol. 126, no. 1, p. 152-153. Typ: ADCA
[2] BUTVINOVÁ, Beata - BUTVIN, Pavol – MAŤKO, Igor - KADLEČÍKOVÁ, M. - KUZMINSKI, M. – ŠVEC, Peter Jr., Surface mediated impact of thermal treatment ambience on magnetic properties of Fe-Nb-Cu-B-Si nanocrystalline ribbons, Applied Surface Science, 2014, vol. 301, p. 119-125. Typ: ADCA
[3] BUTVINOVÁ, Beata – BUTVIN, Pavol – KUZMINSKI, M. – SLAWSKA-WANIEWSKA – MAŤKO, Igor – ŠVEC, Peter – ŠVEC, Peter Jr. – KADLEČÍKOVÁ, M. – HUBEŇÁK, M. – JANIČKOVIČ, Dušan: Effects of grain growth blocking in annealed metalloid-poor Fe–M–Cu–B–Si ribbons (M = Nb, Mo, V). In Journal of Alloys and Compounds, 2015, vol. 648, p.

527-533. Typ: ADCA
[4] BUTVINOVÁ, Beata – BUTVIN, Pavol – BRZÓZKA, K. - KUZMINSKI, M. – MAŤKO, Igor – ŠVEC Sr, Peter – CHROMČÍKOVÁ, M.: Effects of surface crystallization and oxidation in nanocrystalline FeNbCuSiB(P) ribbons, 22nd International Symposium on Metastable, Amorphous and Nanostructured Materials, July 13-17th, 2015, Paris, France, Book of Abstracts, p. 318. Typ: AFG
[5] BUTVINOVÁ, Beata – BUTVIN, Pavol – KUZMINSKI, M. – MAŤKO, Igor: Different influence of squeezing surfaces on anisotropy of ring cores and strips of Fe-based nanocrystalline ribbons, International Scientific Conference Magnetic Measurements 2015, August 25-28th 2015, Košice, Slovakia, Book of Abstracts, p. 68, ISBN 978-80-553-2177-6. – prijatý do tlače Journal of Electrical Engineering Typ: AFC.

Názov výsledku: Tvorba a zdokonalenie náhodnosti pomocou kvantových zariadení
Riešitelia: M. Plesch a kol., Oddelenie komplexných fyzikálnych systémov

Náhodné čísla sú veľmi vzácnym zdrojom pri mnohých aplikáciách. Hoci pomocou kvantovej fyziky (na rozdiel od klasickej) vieme v princípe produkovať dokonalú náhodnosť, jej zabezpečenie je veľmi náročná úloha postavená na existencii dokonalej náhodnosti (semienka), alebo zdroja nedokonalej náhodnosti.
V tejto oblasti sme prispeli prácami [4-7]: V jednom postupe dokážeme zlepšiť ľubovoľne slabú náhodnosť s pomocou nelimitovaného počtu nezávislých experimentálnych zariadení, v druhom vystačíme s jedným zariadením za cenu požiadaviek na vstupnú náhodnosť. V prehľadovom článku [2] sme zhrnuli doterajšie výsledky v oblasti. V článku zaslanom na publikovanie [1] sme ďalej rozvíjali problematiku s využitím viacrozmerných systémov.
V článku [3] sme sa s kolegami venovali problematike extrakcie práce z termálnych zariadení s kvantovým plynom. Ukázali sme, že v princípe, ak nie sme experimentálne limitovaní, extrahovateľná práca nezávisí od typu použitého plynu, ale len od informačnej bohatosti vykonaného merania.

[1] M. PIVOLUSKA and M. PLESCH: “An explicit classical strategy for winning a CHSH_q game”, arXiv:1510.07431, (2015), Typ: AFI
[2] M. PIVOLUSKA and M. PLESCH: “Device Independent Random Number Generation”, Acta Physica Slovaca 64, No.6, 600 – 666 (2015), Typ: ABB
[3] M. PLESCH, O. DAHLSTEEN, J. GOOLD and V. VEDRAL: “Maxwell's Daemon: Information versus Particle Statistics”, NATURE SCIENTIFIC REPORTS | 4 : 6995 | DOI: 10.1038/srep06995 (2014), Typ: ADC
[4] J. Bouda, M. Pawlowski, M. Pivoluska, and M. Plesch: “Device-independent randomness extraction for arbitrarily weak min-entropy source”, Proceedings from AQIS 2014 conference, Typ: AEE
[5] M. PLESCH and M. PIVOLUSKA: "Device-independent randomness amplification with a single device", proceedings from AQIS 2014 conference, Typ: AEE
[6] J. Bouda, M. Pawlowski, M. Pivoluska, and M. PLESCH: “Device-independent randomness extraction for arbitrarily weak min-entropy source”, Proceedings from TQC 2014 conference, http://www.dagstuhl.de/dagpub/978-3-939897-73-6, DOI:10.4230/LIPIcs.TQC.2014.205, Typ: AEC
[7] J. Bouda, M. Pawlowski, M. Pivoluska, and M. PLESCH: “Device-independent randomness extraction for arbitrarily weak min-entropy source”, Phys. Rev. A 90, 032313, (2014), Typ: ADC

2.4. Publikačná činnosť (úplný zoznam je uvedený v Prílohe C)

Tabuľka 2e Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	**A** Počet v r. 2015/ doplnky z r. 2014	**B** Počet v r. 2015/ doplnky z r. 2014	**C** Počet v r. 2015/ doplnky z r. 2014
1. Vedecké monografie vydané v domácich vydavateľstvách (AAB, ABB)	**0 / 0**	**0 / 0**	**0 / 0**
2. Vedecké monografie vydané v zahraničných vydavateľstvách (AAA, ABA)	**0 / 0**	**0 / 0**	**0 / 0**
3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané v domácich vydavateľstvách (BAB, ACB, CAB)	**0 / 0**	**0 / 0**	**0 / 0**
4. Odborné monografie a vysokoškolské učebnice a učebné texty vydané v zahraničných vydavateľstvách (BAA, ACA, CAA)	**0 / 0**	**0 / 0**	**0 / 0**
5. Kapitoly vo vedeckých monografiách vydaných v domácich vydavateľstvách (ABD)	**0 / 0**	**0 / 0**	**0 / 0**
6. Kapitoly vo vedeckých monografiách vydaných v zahraničných vydavateľstvách (ABC)	**0 / 0**	**0 / 0**	**0 / 0**
7. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v domácich vydavateľstvách (BBB, ACD)	**0 / 0**	**0 / 0**	**0 / 0**
8. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v zahraničných vydavateľstvách (BBA, ACC)	**0 / 0**	**0 / 0**	**0 / 0**
9. Vedecké a odborné práce evidované v CCC a vedecké práce evidované vo WOS Core Collection a Scopus (ADCA, ADCB, ADDA, ADDB, ADMA, ADMB, ADNA, ADNB, CDCA, CDCB, CDDA, CDDB, BDCA, BDCB, BDDA, BDDB)	**78 / 5**	**0 / 0**	**0 / 0**
10. Vedecké a odborné práce v časopisoch neevidovaných v CCC, WoS Core Collection, SCOPUS (ADEA, ADEB, ADFA, ADFB, CDEA, CDEB, CDFA, CDFB, BDE, BDEA, BDEB, BDF, BDFA, BDFB)	**10 / 0**	**1 / 0**	**0 / 0**
11. Vedecké a odborné práce v zborníkoch			
a/ recenzované práce a publikované pozvané príspevky (AECA, AECB, AEDA, AEDB, AFA, AFB, BEC, BED)	**10 / 0**	**0 / 0**	**0 / 0**
b/ nerecenzované práce (BEE, BEF, CEC, CED)	**1 / 0**	**0 / 0**	**0 / 0**
12. Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS	**0**	**0**	**0**
13. Ostatné vydané periodiká	**0**	**0**	**0**
14. Vydané alebo editované zborníky z vedeckých podujatí (FAI)	**1 / 0**	**0 / 0**	**0 / 0**

15. Práce uverejnené na internete (GHG)	**1 / 0**	**0 / 0**	**0 / 0**
16. Preklady vedeckých a odborných textov (EAJ)	**0 / 0**	**0 / 0**	**0 / 0**
17. Heslá v *Encyklopédii Beliana* a iných encyklopédiách a terminologických slovníkoch (BDA, BDB)	**0 / 0**	**0 / 0**	**0 / 0**

A - pracovisko SAV je uvedené ako pracovisko (adresa) autora, alebo je súčasťou kolaborácie alebo iného združenia, ktoré je uvedené ako pracovisko (adresa) autora
B - pracovisko SAV nie je na publikácii uvedené, pretože prameň údaj o pracovisku autora neobsahuje, práca ale vznikla na pracovisku SAV
C - pracovisko SAV je uvedené ako materské pracovisko autora odlišné od pracoviska, na ktorom práca vznikla (napr. „on leave...“, „permanent address...“, „present address...“)

Tabuľka 2f Ohlasy

OHLASY	A Počet v r. 2014/ doplnky z r. 2013	B Počet v r. 2014/ doplnky z r. 2013
Citácie vo WoS Core Collection (1.1, 2.1)	1848 / 0	0 / 0
Citácie v SCOPUS (1.2, 2.2)	428 / 0	0 / 0
Citácie v iných citačných indexoch a databázach (9, 10, 3.2, 4.2)	0 / 0	0 / 0
Citácie v publikáciách neregistrovaných v citačných indexoch (3, 4, 3.1, 4.1)	25 / 2	0 / 0
Recenzie na práce autorov z organizácie (5, 6, 7, 8)	0 / 0	0 / 0

A - pracovisko SAV je uvedené ako pracovisko (adresa) autora, alebo je súčasťou kolaborácie alebo iného združenia, ktoré je uvedené ako pracovisko (adresa) autora, alebo pracovisko SAV nie je na publikácii uvedené, pretože prameň údaj o pracovisku autora neobsahuje, práca ale vznikla na pracovisku SAV
B - pracovisko SAV je uvedené ako materské pracovisko autora odlišné od pracoviska, na ktorom práca vznikla (napr. „on leave...“, „permanent address...“, „present address...“)

2.5. Aktívna účasť na vedeckých podujatiach

Tabuľka 2g Vedecké podujatia

Prednášky a vývesky na medzinárodných vedeckých podujatiach	89
Prednášky a vývesky na domácich vedeckých podujatiach	15

2.6. Vyžiadané prednášky

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

RNDr. Stanislav Dubnička, DrSc.

- 8. — 14. 3. 2015, Excited QCD, Tatranská Lomnica, „Scalar meson f0(500) from the analysis of pion scalar form factor and the correct S-wave isoscalar pi-pi phase shift data“

Ing. Matej Jergel, DrSc.

- 16.9. — 23.9. 2015, Nanomaterials : Applications and Properties '2015, Ľviv University, Ukrajina, „Grazing-incidence Small-angle X-ray Scattering Technique for Probing Nanostructures and Processes at Nanoscale“
- 11.12. — 13.12. 2015, First International Conference on Advanced Materilas for Power Engineering, Mahatma Gandhi University Kottayam, India, „Plasmon-enhanced ITO Electrodes for the Next Generation of Organic Solar Cells without the Hole Transporting Layer“
- Spoluautor ďalších 2 vyžiadaných prednášok.

prof. Ing. Štefan Luby, DrSc.

- 16. — 17. 4. 2015, Danube Academies Conf., University Ulm, „Participation and success stories of DR countries in FP 7 security research“
- 28. — 30. 6. 2015, Int. Conf. Society and Technology, Opatija, „Participation of Danube region countries in FP 7 and the secure societies research“

RNDr. Eva Majková, DrSc.

- 24. — 26.9. 2015, 5th Annual World Congress of NanoScience and Technology, Xiian, China „In-situ GISAXS diagnostics of nanofilm and ultrashort period multilayer growth“

RNDr. Ľubomír Martinovič, CSc.

- 21. — 25.9. 2015, Light Cone 2015, INFN Frascati, Italy, „Two-dimensional massless light-front fields and solvable models“

Mgr. Daniel Nagaj, PhD.

- 24. 8. 2015, AQIS 2015, Seoul, South Korea, Invited tutorial „Intro to Quantum Hamiltonian Complexity“
- 5. 10. 2015, Workshop on secure quantum computing, University of Tokyo, Tokyo, Japan, „Bombs don't explode, the forgers get rich“

RNDr. Štefan Olejník, DrSc.

- 2. — 5. 2. 2015, 4th Winter Workshop on Non-Perturbative Quantum Field Theory, INLN, Sophia Antipolis, France, „Measurement of the Yang-Mills vacuum wave-functional in lattice simulations“

RNDr. Ladislav Šamaj, DrSc.

- 5. – 6. 11. 2015, Analytical Results in Statistical Physics, Institute of Henri Poincaré, Paris, France, „Counter-ions Near a Charged Wall: Exact Results for Two-Dimensional Geometries“

prof. Ing. Ivan Štich, DrSc.

- 11. 12. – 21. 12.2 015, Pacifichem 2015, Honolulu, USA, „Magnetism and spin transport in 1D transition metal organometallics“
- 2. – 4. 12. 2015, Recent Trends in Analysis Techniques for Functional Materials and Devices, Osaka, Japan, „Atomic Force Microscopy Identification of Al.sites on Ultrathin Aluminium Oxide Film on NiAl(110)“
- 11. – 15. 10. 2015, 6th JCS International Symposium on Theoretical Chemistry, „Chemistry Insights into Nanomanipulation of Atoms on Surfaces: Cu and Co on Oxidized Copper Surfaces“
- 22. – 25. 9. 2015, 6th European Nanomanipulation Workshop, Giessen, Nemecko, „NC-AFM Manipulation of Co Atoms on Oxidized Copper Surface: Harvesting Short- and Long-Range Interactions“
- 28. 2. – 9. 3. 2015, Konferencia Americkej fyzikálnej spoločnosti (March meeting), San Antonio, Texas, „NC-AFM identification of different aluminium atoms on Al2O3/NiAl(110) surface“; „Quantum Monte Carlo study of charged transition-metal organometallic cluster systems“; „Switchong mechanisms and role of entropy in chemically controlled hydrazone-based switches“

Ing. Peter Švec, DrSc.

- 18. — 21. 5. 2015, NanoOstrava 2015, 4th Nanomaterials and Nanotechnology Meeting, VŠB-TU Ostrava, „3D nanostructured metallic materials prepared by rapid quenching”
- 01. — 05. 6. 2015, C-MAC Euroschool 2015. Materials Synthesis and Characterization Applied to Complex Metallic Alloys, Bratislava, „Nanostructures”
- 13. — 17. 7. 2015, ISMANAM 2015, 22nd International Symposium on Metastable, Amorphous and Nanostructured Materials, Paris, France, „New Rapidly Quenched Alloy Systems and Their Processing”
- 25. — 28. 8. 2015, Magnetic Measurements 2015, Košice, „Universality Law in the Correlation of Magnetic Properties and Residual Stresses in Magnetic Steels”
- 13. — 16. 9. 2015, SMM22, Soft Magnetic Materials Conference, Sao Paulo, Brazil, „Universality of the dependence of magnetic parameters on residual stresses in steels”

Mgr. Martin Veselský, PhD.

- 14. – 12. 2015, SINAP-CUSTIPEN Workshop on Clusters and Correlations in Nuclei, Nuclear Reactions and Neutron Stars, Shanghai, China, „Role of equation of the state in low-energy nuclear processes.“

2.6.2. Vyžiadané prednášky na domácich vedeckých podujatiach

Mgr. Ján Brndiar, PhD.

- 8. 7. 2015, Slovak condensed matter physics workshop, Bratislava, Slovensko, „Modeling AFM microscopy for atomic-scale manipulation“

Ing. Andrej Litpaj, PhD.

- 7. — 10. 9. 2015, 21. konferencia slovenských fyzikov, Nitra, „Popis rozpadov $BS \to J/\Psi+\eta$ a $BS \to J/\Psi+\eta'$ kovariantným kvarkovým modelom“

prof. Ing. Štefan Luby, DrSc.

- 23. — 24. 4. 2015, Konferencia 1989 a 25 rokov po..., Katolícka univerzita v Ružomberku, Poprad, „Slovenská veda vo svetovom zrkadle — 25 rokov po...“

RNDr. Eva Majková, DrSc.

- 1. — 4. 6. 2015, ADEPT2015, „In-situ GISAXS diagnostics of nanofilm and ultrashort period multilayer growth“

Mgr. Michal Sedlák, PhD.

- 7. — 10. 9. 2015, 21. konferencia slovenských fyzikov, Nitra, „Quantum combs – formalism of general quantum protocols”

Ing. Peter Švec, DrSc.

- 24. — 26. 6. 2015, APCOM 2015, Štrbské Pleso, „Determination of the plastic deformation and residual stress tensor distribution using surface and bulk intrinsic magnetic properties”

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

RNDr. René Derian, PhD.

- 1. – 5. 6. 2015, Univerzita v Regensburgu, Regensburg, Nemecko, „Towards sub-chemical accuracy description of non-covalent interaction using Quantum Monte Carlo“

Mgr. Peter Filip, PhD.

- 19. 6. 2015, University of Stony Brook, New York, USA, „Modification of Hadron Decayss in Strong Magnetic Field“

prof. Ing. Štefan Luby, DrSc.

- 29. 10. 2015, Symposium at the 100th anniversary of J. Pócza, Inst. for Technical Physics and Material Research, Hungarian Academy of Sciences, Budapest, „From thin films to nanoparticle layers“

Mgr. Daniel Nagaj, PhD.

- 5. 2. 2015, University of Freiburg, Germany, „Local Tests of Global Entanglement and a Counterexample to the Generalized Area Law“
- 23. 2. 2015, Perimeter Institute, Waterloo, Canada, „Local Tests of Global Entanglement and a Counterexample to the Generalized Area Law“
- 5. 5. 2015, Leibniz Universitaet Hannover, Germany, „Quantum walks and scattering“
- 13. 5. 2015, Niels Bohr Institute, Copenhagen, Denmark, „An adaptive attack on Wiesner's quantum money“

prof. Ing. Ivan Štich, DrSc.

- 15. – 19. 6 . 2015, 25. – 26. 6. 2015, CBPF: CEntro Brasileiro de Pesquisas Físicas, Rio de Janerio, Brazilia, „NC-AFM Manipulation of Co Atoms on Oxidized Copper Surfaces: Harvesting Short- and Long-Range Interactions“; „QMC Study of Transition Metal Organometallics“

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 2015

2.7.1. Vynálezy, na ktoré bol udelený patent

2.7.2. Prihlásené vynálezy

Na Slovensku - počet patentov: 1

Číslo PV: 5028-2015
Mená autorov: Pinčík Emil, Brunner Róbert
Názov vynálezu: Zariadenie na formovanie homogénnych ultratenkých a veľmi tenkých stechiometrických oxidov na GaAs, c-Si, poly-Si a na Al a a-Si:H tenkých vrstvách nanesených na

nevodivej podložke
Majiteľ / spolumajiteľ:

2.7.3. Predané licencie

2.7.4. Realizované patenty

Finančný prínos pre organizáciu SAV v roku 2015 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 2h Experti hodnotiaci národné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Bartoš Erik	VEGA	1
Boháč Vlastimil	VEGA	1
Butvin Pavol	VEGA	1
Jergel Matej	APVV	1
Olejník Štefan	VEGA	1

2.9. Účasť na spracovaní hesiel do encyklopédie Beliana

Počet autorov hesiel: 2

2.10. Iné informácie k vedeckej činnosti.

Recenzie článkov v CC časopisoch: **59**
Recenzie v iných časopisoch: **3**
Editori zborníkov: **4**
Iné posudky: **8**

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 2015

Forma	Počet k 31.12.2015				Počet ukončených doktorantúr v r. 2015					
	Doktorandi				Ukončenie z dôvodov					
	celkový počet		z toho novoprijatí		ukončenie úspešnou obhajobou		predčasné ukončenie		neúspešné ukončenie	
	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž
Interná zo zdrojov SAV	14	1	1	1	0	0	0	0	0	0
Interná z iných zdrojov	0	0	0	0	0	0	0	0	0	0
Externá	2	0	0	0	0	0	0	0	0	0
Spolu	16	1	1	1	0	0	0	0	0	0
Súhrn	17		2		0		0		0	

3.2. Zmena formy doktorandského štúdia

Tabuľka 3b Počty preradení

Z formy	**Interná z prostriedkov SAV**	**Interná z prostriedkov SAV**	**Interná z iných zdrojov**	**Interná z iných zdrojov**	**Externá**	**Externá**
Do formy	**Interná z iných zdrojov**	**Externá**	**Interná z prostriedkov SAV**	**Externá**	**Interná z prostriedkov SAV**	**Interná 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 2015 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

Zoznam interných a externých doktorandov je uvedený v Prílohe A.

3.4. Zoznam akreditovaných študijných programov s uvedením VŠ

Tabuľka 3d Zoznam akreditovaných študijných programov s uvedením univerzity/vysokej školy a fakulty

Názov študijného programu (ŠP)	**Názov študijného odboru (ŠO)**	**Číslo ŠO**	**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 3e Účasť na pedagogickom procese

Menný prehľad pracovníkov, ktorí boli menovaní do odborových komisií študijných programov doktorandského štúdia	**Menný prehľad pracovníkov, ktorí pôsobili ako členovia vedeckých rád univerzít, správnych rád univerzít a fakúlt**	**Menný prehľad pracovníkov, ktorí získali vyššiu vedeckú, pedagogickú hodnosť alebo vyšší kvalifikačný stupeň**
Doc. RNDr. Emil Běták, DrSc. (všeobecná fyzika a matematická fyzika)	Doc. RNDr. Emil Běták, DrSc. (Filozoficko-přírodovědecká fakulta Slezské univerzity, Česká republika)	Ing. Viliam Vretenár, PhD. (IIa)
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)	Prof.,Ing. Štefan Luby, DrSc. (Trnavská univerzita v Trnave)	
Mgr. Andrej Gendiar, PhD. (všeobecná fyzika a matematická fyzika)	RNDr. Eva Majková, DrSc. (Univerzita Komenského v Bratislave)	
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)		
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)		
Ing. Vojtech Nádaždy, CSc. (elektrotechnológie a materiály)		
RNDr. Štefan Olejník, DrSc. (všeobecná fyzika a matematická fyzika)		
RNDr. Štefan Olejník, DrSc. (jadrová a subjadrová fyzika)		
Prof., RNDr. Milan Ožvold, CSc. (elektronika)		
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)		
RNDr. Anton Šurda, CSc. (všeobecná fyzika a matematická fyzika)		
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)		

3.5. Údaje o pedagogickej činnosti

Tabuľka 3f Prednášky a cvičenia vedené v roku 2015

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	6	1	1	1
Celkový počet hodín v r. 2015	149	26	12	39

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

Tabuľka 3g Aktivity pracovníkov na VŠ

1.	Počet pracovníkov, ktorí pôsobili ako vedúci alebo konzultanti diplomových a bakalárskych prác	3
2.	Počet vedených alebo konzultovaných diplomových a bakalárskych prác	4
3.	Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)	6
4.	Počet školených doktorandov (aj pre iné inštitúcie)	10
5.	Počet oponovaných dizertačných a habilitačných prác	7
6.	Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce	5
7.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác	2
8.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác	8
9.	Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti v inauguračnom alebo habilitačnom konaní na vysokých školách	2

3.6. 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 2015 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

SAS-ISOLDE Spring Workshop on Geant4, Častá-Papiernička, Slovensko, 26.04.-01.05.2015
Spring Workshop on GEANT4 bol tretí v poradí úspešných pracovných stretnutí venovaných počítačovému kódu GEANT4 pre simulácie v oblasti nízkoenergetickej jadrovej fyziky. Účastníci sa venovali oboznámeniu s hlavnými ingredienciami simulačného kódu, vybraným procesom detekcie gama žiarenia a nízkoenergetických neutrónov, simuláciám systémov založených na scintilátoroch a praktickým aplikáciám GEANT4 kódu a jeho moderným aplikáciám.

ISTROS 2015 – Isospin, STructure, Reactions and energy Of Symmetry, Častá-Papiernička, Slovensko, 40 účastníkov, 01.05.-06.05.2015
V rámci konferencie ISTROS 2015 odznelo vyše 30 prednášok ohľadne aktuálnych výskumných aktivít v oblasti jadrovej fyziky, špecificky ohľadne štúdia vlastností exotických jadier pomocou zväzkov takýchto jadier. V rámci konferencie vystúpili vedci zo štyroch kontinentov, čo poskytlo reprezentatívny výber výsledkov a poskytlo slovenským fyzikom možnosť na diskusie a nadviazanie nových spoluprác.

C-MAC Euroschool 2015 - Material synthesis and characterization applied to complex metallic alloys, Aula SAV, 30 účastníkov, 01.06.-05.06.2015
Letnej školy sa zúčastnilo 30 doktorandov a mladých vedeckých pracovníkov. Počas trvania školy si účastníci vypočuli 40 hodín prednášok na tému školy – Materials Synthesis and Characterization Applied to Complex Metallic Alloys a absolvovali prehliadku vybraných pracovísk SAV, najmä FÚ SAV.

CEQIP 2015 – Central European Quantum Information Processing, Telč, Česká republika, 80 účastníkov, 18.06.-21.06.2015
CEQIP'15 (Central European Quantum Information Procesing workshop) bola v poradí 12. 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.
Konferencie sú organizované: Quantum Laboratory, Faculty of Informatics, Masaryk University (Brno) a Research Center for Quantum Information, Institute of Physics, Slovak Academy of Sciences (Bratislava).

Applied physics of condensed matter 2015, Hotel Patria, Štrbské Pleso, Slovensko, 24.06.-26.06.2015
APCOM 2015 bola v poradí 21. 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.

Hadron Structure '15, Horný Smokovec, Slovensko, 41 účastníkov, 29.06.-03.07.2015
V dňoch 29. júna - 3. júla 2015 sa v Hoteli GRAND HOTEL BELLEVUE, Horný Smokovec, uskutočnila v poradí deviata spoločná medzinárodná konferencia Hadron Structure '15. Konferencia

je spoluorganizovaná Slovenskými fyzikálnymi inštitúciami (medzi nimi aj FÚ SAV) spoločne s Petrohradským ústavom jadrovej fyziky Ruskej akadémie vied v Gatčine, Ruská federácia.

4th Progress in Applied Surface, Interface and Thin Film Science - Solar Renewable Energy News SURFINT-SREN IV, Florencia, 95 účastníkov, 23.11.-26.11.2015
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 študentami.

4.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2016 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

New trends in solar cells/New trends in solar cells, Bratislava, 19.04.-22.04.2016, (Matej Jergel, 02/ 20910760, 54792507, matej.jergel@savba.sk)

CEQIP 2016 – Central European Quantum Information Processing, Valtice, Česká republika, 18.06.-19.06.2016, (Mário Ziman, 02/20910704, mario.ziman@savba.sk)

4.1.3. Počet pracovníkov v programových a organizačných výboroch medzinárodných konferencií

Tabuľka 4a Programové a organizačné výbory medzinárodných konferencií

Typ výboru	Programový	Organizačný	Programový i organizačný
Počet členstiev	3	7	7

4.2. Členstvo a funkcie v medzinárodných orgánoch

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

Institute of Physics: *E. Běták (člen+ člen Fellowship Panelu), V. Bužek*

European Physical Society: *P. Butvin, P. Filip (individuálny člen), D. Krupa, K. Petrík*

American Physical Society: *V. Bužek, A. Gendiar, D. Krupa, E. Majerníková, P. Staňo, I. Štich*

Optical Society of America: *V. Bužek*

Rakúska akadémia vied: *V. Bužek (zahraničný člen)*

Americká chemická spoločnosť: *A. Gendiar, J. Ivančo*

Material Research Community, Singapore: *M. Hartmanová*

Materials Research Society: *Š. Lányi*

ICTAC - International Confederation of Thermal Analysis and Calorimetry: *E. Illeková*

Polish Synchrotron Radiation Society: *J. Ivančo (člen korešpondent)*

Česko-Slovenská kryštalografická spoločnosť: *M. Jergel (člen, 1996-2002 člen Rady)*

European Academy of Sciences and Arts: *M. Jergel, Š. Luby (viceprezident, senátor), E. Majková (socius ordinarius)*

European Crystallographic Association: *M. Jergel (individuálny člen)*

Európska organizácia používateľov synchrotrónového žiarenia: *M. Jergel (národný delegát)*

Národný komitét IUPAP: *M. Jergel*

Bieloruská fyzikálna spoločnosť: *D. Krupa (Čestný člen)*

Institute of Physics (Great Britain): *D. Krupa*

Nemecká fyzikálna spoločnosť: *D. Krupa (čestný člen)*

Poľská fyzikálna spoločnosť: *D. Krupa (čestný člen)*

Ruská fyzikálna spoločnosť: *D. Krupa (čestný člen)*

Science and Technology - International Energy Foundation: *D. Krupa (Assistant Under Secretary)*

World Innovation Foundation: *D. Krupa*

Česká společnost pro nové materiály a technologie: *Š. Lányi*

Dunajská akademická konferencia: *Š. Luby (prezident)*

ESUO Integrated Infrastructure Initiative (I3) "ELISA: *E. Majková (reprezentant SR)*

International Union of Vacuum Science, Technology and Applications, IUVSTA, Divízia tenkých vrstiev: *E. Majková (národný reprezentant)*

Československá mikroskopická společnost: *I. Maťko, P. Švec Jr.(člen výboru), P. Švec*

European Microscopy Society: *P. Švec Jr.*

International Committee of Analysis in Steel and Iron Industry – ICASI: *E. Pinčík (člen medzinárodného výboru)*

Medzinárodný výbor IJSO: *M. Plesch*
Medzinárodný výbor Turnaja mladých fyzikov: *M. Plesch (Prezident, Generálny tajomník)*

Fulbright Commision: *D. Reitzner (Alumni)*

IEEE-UFFC: *V. Štofanik*

URSI: *V. Štofanik*

Intl. Advisory Committe on Rapid Quenching: *P. Švec*

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

Tabuľka 4b Experti hodnotiaci medzinárodné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Jergel Matej	bilaterálna dohoda o spolupráci SAV - CNR	1
	bilaterálna dohoda o spolupráci SAV - MAV	1
Olejník Štefan	FWO (Belgicko)	2

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

V roku 2015 sa bolo podpísané Memorandum o spolupráci medzi Slovenskou republikou a ISOLDE kolaboráciou pôsobiacou na rovnomennom experimentálnom zariadení v CERN. Slovenská republika sa tak stane od roku 2016 plnohodnotným členom kolaborácie. Fyzikálny ústav SAV predstavuje popredné slovenské pracovisko pôsobiace na ISOLDE. Oddelenie jadrovej fyziky tu realizuje experimenty IS521 a IS581, ktoré sú v súčasnosti jedinými slovenskými experimentami v CERN. Pre potreby programu IS521 bol na Fyzikálnom ústave vyvinutý jedinečný páskový transportný systém TATRA, ktorý bol úspešne použitý počas prvej fázy experimentu IS521 v auguste 2014. V priebehu roku 2015 prešiel rozsiahlou prestavbou na ktorej boli zohľadnené skúsenosti získané počas meraní v roku 2014. Bolo zlepšené vákuum a modifikovaný detekčný a elektronický systém s cieľom umožniť meranie konverzných elektrónov. V roku 2015 schválila Vedecká rada CERN pokračovanie programu IS521, ktoré bude realizované v roku 2016. Prvé merania v rámci experimentu IS581 sú očakávané v roku 2017.

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: Prírodovedecká fakulta UK
Druh spolupráce (spoločné pracovisko alebo iné): spoločný výskum (APVV grant do r. 2014)
Začiatok spolupráce: 2011
Zameranie: Katedra inžinierskej geológie
Zhodnotenie: Monitorovanie teplotno-vlhkostného režimu v tufovom masíve múzea sakalných obydlí v Brhlovciach.

Názov univerzity/vysokej školy a fakulty: Fakulta prírodných vied UMB
Druh spolupráce (spoločné pracovisko alebo iné): APVV
Začiatok spolupráce: 2012
Zameranie: Výskum v oblasti jadrovej a subjadrovej fyziky
Zhodnotenie: Od 1. júla 2012 spoločne riešime výskumný projekt APVV-0050-11 (SIMEX) „Silno interagujúca hmota v extrémnych podmienkach (SIMEX)“. Cieľom projektu je priniesť relevantné príspevky k chápaniu silných interakcií elementárnych častíc s dôrazom na javy, ktoré súvisia so súčasnými a budúcimi experimentami pri vysokých excitačných energiách a vysokých hustotách jadrovej hmoty, a na vlastnosti hustej jadrovej hmoty relevantné pre zloženie a vnútornú štruktúru neutrónových hviezd. Riešiteľmi sú pracovníci z FÚ SAV, UMB v Banskej Bystrici a ÚEF SAV v Košiciach.

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 (kontakt na FÚ: Ľ. Kubičár)

Názov univerzity/vysokej školy a fakulty: Slovenská technická univerzita v Bratislave
Druh spolupráce (spoločné pracovisko alebo iné): spolupráca pri testovaní fyzikálnych modelov (predtým APVV a VEGA)
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: Technische Universität Wien, Wien, 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 pozitrónovej anihilačnej spektroskopie.

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

Zadávateľ, 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: Ľ. Kubičár)

Zadávateľ, 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: Ľ. Kubičár)
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: Ľ. Kubičár)

6.3. Iná činnosť využiteľná pre potreby spoločenskej praxe

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

7.1. Spoločné pracoviská s aplikačnou sférou

7.2. Kontraktový – zmluvný výskum (vrátane zahraničných kontraktov)

7.3. Iná činnosť využiteľná pre potreby hospodárskej praxe

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

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

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

Meno pracovníka	Názov orgánu	Funkcia
Doc. RNDr. Emil Běták, DrSc.	Pracovná skupina pre fyziku Akreditačnej komisie	člen
RNDr. Stanislav Dubnička, DrSc.	Vláda SR	Splnomocnený zástupca vlády SR v SÚJV Dubna
Ing. Štefan Gmuca, CSc.	Národný tím technických expertov pre posudzovanie tovarov a technológií dvojakého použitia a vojenského materiálu	člen
RNDr. Stanislav Hlaváč, CSc.	Rada Úradu jadrového dozoru SR	člen rady
RNDr. Dušan Janičkovič	Národná podporná štruktúra pre Horizont 2020	Národný kontaktný bod pre Horizont 2020: Nanotechnológie, pokročilé materiály, výrobné procesy a postupy a biotechnológie
	Národná podporná štruktúra pre Horizont 2020	Národný expert pre Horizont 2020: Nanotechnológie, pokročilé materiály, výrobné procesy a postupy a biotechnológie
Prof., Ing. Štefan Luby, DrSc.	Programový výbor Horizont 2020 téma Bezpečné spoločnosti	člen za SR
RNDr. Eva Majková, DrSc.	Komisia pre návrh štátnych vyznamenaní	člen
	Monitorovací výbor Operačného programu Výskum a inovácie	člen
	Predsedníctvo APVV	podpredsedníčka
RNDr. Štefan Olejník, DrSc.	Komisia pre obhajoby doktorských dizertačných prác vo vednom odbore 010308 - jadrová a subjadrová fyzika	predseda
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	člen

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

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

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

Meno pracovníka	Názov orgánu	Funkcia
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 vládnymi a parlamentnými orgánmi alebo pre ich potrebu

9. Vedecko-organizačné a popularizačné aktivity

9.1.Vedecko-popularizačná činnosť

9.1.1. Najvýznamnejšia vedecko-popularizačná činnosť pracovníkov organizácie SAV

Tabuľka 9a Vedecko-popularizačná činnosť pracovníkov organizácie SAV

Meno	Spoluautori	Typ[1]	Názov	Miesto zverejnenia	Dátum alebo počet za rok
Mgr. Erik Bartoš, PhD.		TL	Prečo majú jednorazové a nabíjacie batérie rôzne napätie?	Quark	2015
Doc. RNDr. Emil Běták, DrSc.	- - -	PB	Slovakia - a short introduction	SIIAEC Pax Romana meeting, Praha	9.5.2015
Doc. RNDr. Emil Běták, DrSc.	G. Fronc	TV	Rozhovory cez polnoc	TA3	30.10.2015
Doc. RNDr. Emil Běták, DrSc.	Š. Luby	PB	Červené more, pyramídy a Igor Túnyi	konf.	2015
Doc. RNDr. Emil Běták, DrSc.	V. Ješko	TL	Atóm stále hrozí	Quark	2015
Ing. Vlastimil Boháč, CSc.		TV	Problém ohrevu predmetov vystavených extrémnemu slnečnému žiareniu v letných mesiacoch.	TV noviny JOJ	12.8.2015
Mgr. Peter Filip, PhD.	K. Šafařík, M. Veselský	TV	Portrét K.Šafaříka, rozhovor pre TA3	televízia TA3, Gagarinova 12, Bratislava	17.10.2015
Ing. Ján Ivančo, PhD.		iné	ŠVOČ 2015: I. Klačková, „Preparation of Nanoparticle films and their application as strain sensors“	FEI STI	23.4.2015
Ing. Matej Jergel, DrSc.		PB	Deň otvorených dverí na FÚ SAV, prezentácia výskumných aktivítv OMN	Fyzikálny ústav SAV	11.11.2015
Ing. Matej Jergel, DrSc.		PB	Noc výskumníka, prezentácia výskumných aktivít v OMN	Stará tržnica, Bratislava	25.9.2015
Ing. Michal Kaiser	Vojtech Nádaždy	PU	Pomôžu organické polovodiče fotovoltike? (vedecko-popularizačný príspevok)	Obzory nových technológií, Vydavateľstvo Matice slovenskej, 2015, pp. 62-63.	1.10.2015
Dr.Rer.Nat. Ing. Mgr. Andrej Liptaj, PhD.		TL	Fyzika hudby	Quark	2015
Prof.,Ing. Štefan Luby, DrSc.	D. Janičkovič a iní	PU	Obzory nových technológií	CVTI SR - kapitola	2015
Prof.,Ing. Štefan Luby, DrSc.	žiadni	PU	Pohľady do nanosveta	CVTI SR Bratislava	2015
RNDr. Štefan Olejník, DrSc.		PB	LEGO sveta, v ktorom žijeme	Aula Gymnázia L. Novomeského, Tomášikova ul., Bratislava	9.6.2015

RNDr. Štefan Olejník, DrSc.	Ján Pišút	TL	Veda potrebuje najmä poctivosť	Denník SME	4.6.2015
Doc. RNDr. Martin Plesch, PhD.		RO	Informácie o IYPT	http://slovensko.rtvs.sk/clanky/veda-a-technika/85169/uspech-mladych-slovenskych-fyzikov-na-sutazi-v-thajsku	12.7.2015
Doc. RNDr. Martin Plesch, PhD.		RO	Reportáž z Úvodného sústredenia TMF	http://slovensko.rtvs.sk/clanky/veda-a-technika/92050/fyziky-sa-zvacsa-bojime-niektori-ju-miluju	26.10.2015
Doc. RNDr. Martin Plesch, PhD.		IN	Správa o zasadnútí výkonného výboru IYPT	http://urfu.ru/en/news/news/8849/	23.11.2015
Doc. RNDr. Martin Plesch, PhD.		TL	Vyjadrenie k počasiu	http://www.topky.sk/cl/13/1454645/Slovensko-navzdy-zanikne--omylom-oznamili-meteorologovia--Na-zachranu-mame-uz-len-par-dni-	5.2.2015
Doc. RNDr. Martin Plesch, PhD.		TL	Vyjadrenie pre médiá k 100 rokom Teórii relativity	http://tech.sme.sk/c/20063364/fyzik-martin-plesch-priestor-je-zakriveny-a-macka-moze-byt-ziva-i-mrtva-naraz.html	9.11.2015
RNDr. Daniel Reitzner, PhD.		PB	Výročné stretnutie absolventov Fulbrightovho programu	internet	14.12.2015
Ing. Peter Švec, DrSc.		iné	Deň otvorených dverí FÚ	Bratislava	11.11.2015
Ing. Peter Švec, DrSc.	Peter Švec ml.	TV	vedecko-popularizačná relácia RTVS VaT - Magnetoelastický snímač deformácie	STV1	23.3.2015
Doc. RNDr. Martin Plesch, PhD.	Doc. František Kundracik a ďalší	iné	Olympiáda mladých vedcov	Celoslovenská a medzinárodná pôsobnosť	5
Doc. RNDr. Martin Plesch, PhD.	Doc. František Kundracik a ďalší	iné	Turnaj mladých fyzikov	Celoslovenská a medzinárodná úroveň	5
Ing. Peter Švec, DrSc.	Peter Švec ml.	TL	J. Šípoš, Z GALÉRIE TVORCOV - Snímač pomerných pretvorení. Príprava popularizačného článku.	Duševné vlastníctvo 2 (2015), 34-40.	1

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

9.1.2. Súhrnné počty vedecko-popularizačných činností organizácie SAV

Tabuľka 9b Súhrnné počty vedecko-popularizačných činností organizácie SAV

Typ	Počet	Typ	Počet	Typ	Počet
prednášky/besedy	9	tlač	7	TV	4
rozhlas	2	internet	2	exkurzie	0
publikácie	0	multimediálne nosiče	3	dokumentárne filmy	0
iné	5				

9.2. Vedecko-organizačná činnosť

Tabuľka 9c Vedecko-organizačná činnosť

Názov podujatia	Domáca/ medzinárodná	Miesto	Dátum konania	Počet účastníkov
SAS-ISOLDE Spring Workshop on Geant4	medzinárodná	Častá-Papiernička, Slovensko	26.04.-01.05.2015	-
ISTROS 2015 – Isospin, STructure, Reactions and energy Of Symmetry	medzinárodná	Častá-Papiernička, Slovensko	01.05.-06.05.2015	40
C-MAC Euroschool 2015 - Material synthesis and characterization applied to complex metallic alloys	medzinárodná	Aula SAV	01.06.-05.06.2015	30
CEQIP 2015 – Central European Quantum Information Processing	medzinárodná	Telč, Česká republika	18.06.-21.06.2015	80
Applied physics of condensed matter 2015	medzinárodná	Hotel Patria, Štrbské Pleso, Slovensko	24.06.-26.06.2015	-
Hadron Structure '15	medzinárodná	Horný Smokovec, Slovensko	29.06.-03.07.2015	41
4th Progress in Applied Surface, Interface and Thin Film Science - Solar Renewable Energy News SURFINT-SREN IV	medzinárodná	Florencia	23.11.-26.11.2015	95

9.3. Účasť na výstavách

9.4. Účasť v programových a organizačných výboroch národných konferencií

Tabuľka 9d Programové a organizačné výbory národných konferencií

Typ výboru	Programový	Organizačný	Programový i organizačný
Počet členstiev	0	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)

RNDr. Dušan Janičkovič

SCOPE - eNEWSLETTER o 7. rámcovom programe EÚ (funkcia: člen redakčnej rady)

RNDr. Dalibor Krupa, CSc., DPhil, Fellow: IOP, EPS

Obzory matematiky, fyziky a informatiky (funkcia: člen)

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)
Kovové materiály - Metallic Materials (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 (funkcia: člen Riadiaceho výboru)
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: revízna komisia)

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)

RNDr. Pavol Kalinay, CSc.

Slovenská fyzikálna spoločnosť (funkcia: člen)

RNDr. Marián Krajčí, DrSc.

Slovenská fyzikálna spoločnosť (funkcia: člen)

RNDr. Dalibor Krupa, CSc., DPhil, Fellow: IOP, EPS

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

Ing. Štefan Lányi, DrSc.

Slovenská fyzikálna spoločnosť (funkcia: predseda reviznej komisie)

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

Slovenská fyzikálna spoločnosť (funkcia: člen)

Prof., RNDr. Eva Majerníková, DrSc.

Slovenská fyzikálna spoločnosť (SFS) (funkcia: členka)

RNDr. Štefan Olejník, DrSc.

ARRA (funkcia: člen odbornej rady)
JSMF (funkcia: člen)
Učená spoločnosť SAV (funkcia: riadny člen)

Mgr. Kristian Petrík, PhD.

Slovenská fyzikálna spoločnosť (funkcia: člen)

Doc. RNDr. Martin Plesch, PhD.

Odborná komisia Turnaja mladých fyzikov (funkcia: podpredseda)

RNDr. Daniel Reitzner, PhD.

Club of Individualities, Intenda Foundation (funkcia: Member)

RNDr. Jana Strišovská, PhD.

Slovenská nukleárna spoločnosť SNUS (funkcia: člen Mladej generácie SNUS) 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 Týždňa vedy a techniky na Slovensku, zorganizoval FÚ SAV aj v spolupráci s redakciou časopisu Quark, v stredu 11. 11. 2015 podujatie **Deň otvorených dverí na FÚ SAV 2015** určené širokej verejnosti, ale hlavne študentom stredných a vysokých škôl. Podujatie navštívilo vyše 80 žiakov so svojimi pedagógmi. Pre žiakov odzneli prednášky:

- Antihmota – výroba a vlastnosti – Peter Filip
- Doba kvantová – Daniel Nagaj
- História námornej navigácie – Daniel Reitzner
- Experiment IS521 CERN – Matúš Sedlák

Žiaci si mohli prezrieť priestory našich laboratórií, kde im pracovníci Oddelenia fyziky kovov, Oddelenia multivrstiev a nanoštruktúr a Oddelenia jadrovej fyziky poskytli pútavé výklady.

Pracovníci Oddelenia multivrstiev a nanoštruktúr sa už tradične zúčastnili **Európskej Noci výskumníkov 2015** s ukážkami svojej práce. V samostatnom stánku **Svet nanotechnológií** oboznámili návštevníkov podujatia s aplikáciami inovatívnej povrchovej úpravy solárnych článkov pomocou nanotechnológii.

10. Činnosť knižnično-informačného pracoviska

10.1. Knižničný fond

Tabuľka 10a Knižničný fond

Knižničné jednotky spolu		
z toho	knihy a zviazané periodiká	10471
	audiovizuálne dokumenty	
	elektronické dokumenty (vrátane digitálnych)	
	mikroformy	
	iné špeciálne dokumenty - dizertácie, výskumné správy	
Počet titulov dochádzajúcich periodík		21
z toho zahraničné periodiká		20
Ročný prírastok knižničných jednotiek		34
v tom	kúpou	32
	darom	
	výmenou	
	bezodplatným prevodom	
Úbytky knižničných jednotiek		
Knižničné jednotky spracované automatizovane		1289

10.2. Výpožičky a služby

Tabuľka 10b Výpožičky a služby

Výpožičky spolu		490
z toho	odborná literatúra pre dospelých	
	výpožičky periodík	80
	prezenčné výpožičky	410
MVS iným knižniciam		14
MVS z iných knižníc		46
MMVS iným knižniciam		
MMVS z iných knižníc		
Počet vypracovaných bibliografií		
Počet vypracovaných rešerší		2

10.3. Používatelia

Tabuľka 10c Užívatelia

Registrovaní používatelia	78
Návštevníci knižnice spolu (bez návštevníkov podujatí)	92

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 €	1469,00

10.5. Iné informácie o knižničnej činnosti

Elektronický katalóg Knižnice FÚ SAV prešiel zmenou zo starého knižničného systému Emilda na nový systém PhpMyBibli. Je to jeden z open source systémov s modulmi katalogizácie a výpožičiek, ktorý prispieva k efektívnejšiemu využívaniu služieb Knižnice. Katalóg je prístupný na webovej adrese http://www.fu.sav.sk/PhpMyBibli/opac_css.

11. Aktivity v orgánoch SAV

11.1. Členstvo vo Výbore Snemu SAV

RNDr. Katarína Gmucová, CSc.

- predsedníčka I. komory

11.2. Členstvo v Predsedníctve SAV a vo Vedeckej rade SAV

RNDr. Eva Majková, DrSc.

- podpredsedníčka pre vedu a výskum

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.

- Dislokačná komisia SAV (členka)
- Škodová komisia SAV (členka)

Prof.,Ing. Štefan Luby, DrSc.

- Porota pre udeľovanie Medzinárodnej ceny SAV (člen)

RNDr. Eva Majková, DrSc.

- Rada SAV pre vzdelávanie a doktorandské štúdium (člen)

RNDr. Štefan Olejník, DrSc.

- Komisia SAV pre informačné a komunikačné technológie (člen)

11.5. Členstvo v orgánoch VEGA

Ing. Ján Ivančo, PhD.

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

Ing. Matej Jergel, DrSc.

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

RNDr. Marián Krajčí, DrSc.

- Komisia č. 1 (člen)

Ing. Peter Švec, DrSc.

- komisia VEGA č. 1 (člen)

Mgr. Martin Veselský, PhD.

- Komisia VEGA 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 31.12.2015 spolu	v tom:			
		zo ŠR od zriaďovateľa	z vlastných zdrojov	z iných zdrojov	z toho: ŠF EÚ
Výdavky spolu	5031273	1926570	87994	3016709	432793
Bežné výdavky	3412328	1781253	87994	1543081	432793
v tom:					
mzdy (610)	1272444	955523	1655	315266	59729
poistné a príspevok do poisťovní (620)	437929	329478	731	107720	16823
tovary a služby (630)	1099252	391038	75775	632439	356241
z toho: časopisy					
VEGA projekty	150188	150188			
MVTS projekty	126499	126499			
CE	21143	21143			
vedecká výchova	6240	6240			
bežné transfery (640)	359266	98974	9833	250459	
z toho: štipendiá	119914	98974	7680	13260	
transfery partnerom projektov	237197			237197	
Kapitálové výdavky					
v tom:					
obstarávanie kapitálových aktív	1618945	145317			1473628
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 31.12.2015 spolu**	**v tom:**	
		rozpočtové	**z mimoroz p. zdrojov**
Príjmy spolu	3043514	2493479	550035
Nedaňové príjmy	131886	131886	
v tom:			
príjmy z prenájmu	17183	17183	
príjmy z predaja výrobkov a služieb	108194	108194	
iné	6509	6509	
Granty a transfery (mimo zdroja 111)	2911628	2361593	550035
v tom:			
tuzemské			
z toho: APVV	651638	651638	
iné	279857	26842	253015
zahraničné			
z toho: projekty rámcového programu EÚ	1980133	1683113	297020
iné			

13. Nadácie a fondy pri organizácii SAV

Názov: Fond na Podporu Mladých Pracovníkov FÚ
Zameranie: Prostriedky 9.812,54 EUR určené na podporu mladých vedeckých pracovníkov
Opis: Vytvorený na oddelení CVKI z daru občianskeho združenia Quniverse.

14. Iné významné činnosti organizácie SAV

15. Vyznamenania, ocenenia a ceny udelené pracovníkom organizácie v roku 2015

15.1. Domáce ocenenia

15.1.1. Ocenenia SAV

Švec Peter
Čestná plaketa SAV Dionýza Ilkoviča
Oceňovateľ: P SAV

15.1.2. Iné domáce ocenenia

Krajčí Marián
Cena za vedeckú činnosť SFS
Oceňovateľ: Slovenská fyzikálna spoločnosť

Liptaj Andrej
Súťaž vedeckých prác mladých fyzikov 2015, 3. miesto
Oceňovateľ: Slovenská fyzikálna spoločnosť

Plesch Martin
Sociálny inovátor
Oceňovateľ: Nadácie Pontis a Ashoka
Opis: Zaradenie na mapu sociálnych inovátorov Slovenska, http://www.nadaciapontis.sk/clanok/pozrite-si-mapu-ludi-ktori-menia-slovensko-k-lepsiemu/1692

Reitzner Daniel
Súťaž vedeckých prác mladých fyzikov 2015, 2. miesto
Oceňovateľ: Slovenská fyzikálna spoločnosť

15.2. Medzinárodné ocenenia

Luby Štefan
Cena Ústavu technickej fyziky MAV Budapešť
Oceňovateľ: Vedecká rada ústavu
Opis: Cena za podporu medzinárodnej spolupráce MAV - SAV

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

17. Problémy a podnety pre činnosť SAV

Správu o činnosti organizácie SAV spracoval(i):

Mgr. Erik Bartoš, PhD., 02/ 59410 512

Riaditeľ organizácie SAV	**Predseda vedeckej rady**
....	....
RNDr. Stanislav Hlaváč, CSc.	Mgr. Martin Veselský, PhD.

Prílohy

Príloha A

Zoznam zamestnancov a doktorandov organizácie k 31.12.2015

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.	100	1.00
2.	Prof. RNDr. Vladimír Bužek, DrSc.	100	1.00
3.	RNDr. Stanislav Dubnička, DrSc.	75	0.75
4.	Ing. Matej Jergel, DrSc.	100	1.00
5.	Ing. Ján Kliman, DrSc.	100	1.00
6.	RNDr. Marián Krajčí, DrSc.	100	1.00
7.	Ing. Ľudovít Kubičár, DrSc.	50	0.50
8.	Ing. Štefan Lányi, DrSc.	70	0.70
9.	Prof.,Ing. Štefan Luby, DrSc.	100	1.00
10.	RNDr. Eva Majková, DrSc.	50	0.50
11.	RNDr. Miroslav Nagy, DrSc.	100	0.33
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 Adamuščín, 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.	100	1.00
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.	Doc.RNDr. Miroslav Grajcar, DrSc.	25	0.25

12.	Ing. Ján Ivančo, PhD.	100	1.00
13.	RNDr. Pavol Kalinay, CSc.	100	1.00
14.	Dr.Rer.Nat. Ing. Mgr. Andrej Liptaj, PhD.	100	1.00
15.	RNDr. Lubomir Martinovič, CSc.	100	0.00
16.	RNDr. Igor Maťko, CSc.	100	1.00
17.	Ing. Vladislav Matoušek, CSc.	100	1.00
18.	RNDr. Marek Mihalkovič, CSc.	100	1.00
19.	Ing. Vojtech Nádaždy, CSc.	100	1.00
20.	Mgr. Daniel Nagaj, PhD.	100	1.00
21.	RNDr. Emil Pinčík, CSc.	100	1.00
22.	Doc. RNDr. Martin Plesch, PhD.	100	1.00
23.	RNDr. Daniel Reitzner, PhD.	100	1.00
24.	Mgr. Michal Sedlák, PhD.	40	0.40
25.	Ing. Mgr. Peter Staňo, PhD.	25	0.25
26.	RNDr. Ondrej Šauša, CSc.	100	1.00
27.	Dr.Rer.Nat. Peter Šiffalovič, PhD.	100	1.00
28.	Ing. Igor Travěnec, CSc.	100	1.00
29.	RNDr. Robert Turanský, PhD.	100	1.00
30.	Ing. Ivan Turzo, CSc.	30	0.30
31.	Mgr. Martin Venhart, PhD.	100	1.00
32.	Mgr. Martin Veselský, PhD.	100	1.00
33.	Ing. Viliam Vretenár, PhD.	50	0.50
34.	Doc. Mgr. Mário Ziman, PhD	100	1.00
Vedeckí pracovníci			
1.	Mgr. Ján Brndiar, PhD.	100	1.00
2.	RNDr. Róbert Brunner, CSc.	100	1.00
3.	Mgr. Maksym Demydenko, PhD.	100	0.92
4.	RNDr. René Derian, PhD.	100	1.00
5.	Ing. Yuriy Halahovets, PhD.	100	1.00
6.	Ing. Irena Janotová, PhD.	100	1.00
7.	Ing. Mário Kotlár, PhD.	40	0.40
8.	Mgr. Roman Krčmár, PhD.	100	1.00
9.	Mgr. Lubos Krupa, PhD.	100	0.00
10.	Mgr. Kristian Petrík, PhD.	100	1.00
11.	Dr. Manharbai Prajapati	100	0.67

12.	Mgr. Peter Rapčan, PhD.	40	0.70
13.	Ing. Jaroslav Rusnák, PhD.	100	1.00
14.	Mgr. Tomáš Rybár, PhD.	100	0.25
15.	Ing. Vladimír Štofanik, PhD.	25	0.25
16.	Ing Peter Švec, Jr., PhD.	100	1.00
17.	RNDr. Kamil Tokár, PhD.	100	1.00
18.	Mgr. Karol Végsö, PhD.	100	1.00
Odborní pracovníci s VŠ vzdelaním			
1.	RNDr. Monika Benkovičová	100	0.50
2.	Mgr. Katarína Čechová	5	0.02
3.	Mgr. Michal Daniška	5	0.05
4.	Ing. Erika Gažiová	29	0.29
5.	Mgr. Jozef Genzor	5	0.05
6.	Mgr. Martin Hodas	5	0.05
7.	Ing. Ján Hudec	5	0.05
8.	RNDr. Dušan Janičkovič	100	1.00
9.	Mgr. Ursula Juhásová	55	0.00
10.	Ing. Mária Jusková	35	0.35
11.	Lenka Kabátová, Bc.	100	1.00
12.	Ing. Michal Kaiser	5	0.05
13.	Mgr. Dušan Kamas	5	0.05
14.	Mgr. Jozef Klimo	5	0.05
15.	Ing. Jana Kováčová	100	1.00
16.	Mgr. Lucia Kuchtová	100	0.00
17.	RNDr. Jozef Leja	5	0.05
18.	Ing. Daniel Manca	5	0.05
19.	Ing. Matúš Sedlák	5	0.02
20.	Ing. Rudolf Senderák, Piešťany	100	1.00
21.	Prom. knih. Božena Števulová	100	1.00
22.	Mgr. Róbert Urban	5	0.05
23.	Mgr. Andrej Vojtko	5	0.05
24.	Mgr. Angelika Winczerová	128	1.28
25.	Ing. Martina Zemanová	100	1.00
26.	Mgr. Juraj Zigo	5	0.05
27.	Ing. Marta Zofcsáková	65	0.65

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.	ml. Jana Koláriková	100	1.00
8.	Štefan Lučanský, dielňa	100	1.00
9.	Marian Markovič	100	1.00
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	0.62
15.	Jana Zvončeková, Piešťany	100	1.00

Zoznam zamestnancov, ktorí odišli v priebehu roka

	Meno s titulmi	Dátum odchodu	Ročný prepočítaný úväzok
Vedúci vedeckí pracovníci CSc., PhD.			
1.	RNDr. Dalibor Krupa, CSc., DPhil, Fellow: IOP, EPS	1.9.2015	0.33
Samostatní vedeckí pracovníci			
1.	Mgr. Ivan Siváček, PhD.	1.2.2015	0.08
Vedeckí pracovníci			
1.	Ing. Danica Opatt Fidríková, PhD.	1.9.2015	0.67
2.	RNDr. Jana Strišovská, PhD.	1.1.2015	0.00

Zoznam doktorandov

	Meno s titulmi	Škola/fakulta	Študijný odbor
Interní doktorandi hradení z prostriedkov SAV			
1.	Mgr. Libor Caha	Fakulta matematiky, fyziky a informatiky UK	4.1.2 všeobecná fyzika a matematická fyzika
2.	Mgr. Katarína Čechová	Fakulta matematiky, fyziky a informatiky UK	4.1.5 jadrová a subjadrová fyzika
3.	Mgr. Michal Daniška	Fakulta matematiky, fyziky a informatiky UK	4.1.2 všeobecná fyzika a matematická fyzika
4.	Mgr. Jozef Genzor	Fakulta matematiky, fyziky	4.1.2 všeobecná fyzika a

		a informatiky UK	matematická fyzika
5.	Mgr. Martin Hodas	Fakulta matematiky, fyziky a informatiky UK	4.1.4 kvantová elektronika a optika
6.	Ing. Ján Hudec	Fakulta elektrotechniky a informatiky STU	5.2.48 fyzikálne inžinierstvo
7.	Ing. Michal Kaiser	Fakulta elektrotechniky a informatiky STU	5.2.48 fyzikálne inžinierstvo
8.	Mgr. Dušan Kamas	Fakulta matematiky, fyziky a informatiky UK	4.1.5 jadrová a subjadrová fyzika
9.	Mgr. Jozef Klimo	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.	Marco Pelletta	Fakulta matematiky, fyziky a informatiky UK	4.1.4 kvantová elektronika a optika
12.	Ing. Matúš Sedlák	Fakulta matematiky, fyziky a informatiky UK	4.1.5 jadrová a subjadrová fyzika
13.	Mgr. Róbert Urban	Fakulta matematiky, fyziky a informatiky UK	4.1.5 jadrová a subjadrová fyzika
14.	Mgr. Andrej Vojtko	Fakulta matematiky, fyziky a informatiky UK	4.1.3 fyzika kondenzovaných látok a akustika
15.	Mgr. Juraj Zigo	Fakulta matematiky, fyziky a informatiky UK	4.1.3 fyzika kondenzovaných látok a akustika
Interní doktorandi hradení z iných zdrojov			
organizácia nemá interných doktorandov hradených z iných zdrojov			
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

Príloha B
Projekty riešené v organizácii

Medzinárodné projekty

Programy: Medziakademická dohoda (MAD)

1.) Doménová štruktúra a magnetické vlastnosti heterogénnych zliatin pripravených rýchlym ochladením taveniny *(Domain structure and magnetic properties of heterogeneous rapidly quenched alloys)*

Zodpovedný riešiteľ:	Beata Butvinová
Trvanie projektu:	1.1.2013 / 31.12.2015
Evidenčné číslo projektu:	č. 3
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií:	2 - Poľsko: 2
Čerpané financie:	

Dosiahnuté výsledky:
Pozorovania doménovej štruktúry na nanokryštalických páskach na báze Fe (FeNbCuSiB, s obsahom Si 8-10 at. %) sme sústredili na porovnanie vzoriek žíhaných v plynnej (inertnej) atmosfére a na vzorky po následnom odstránení časti povrchov pomocou leptania. Priečna magnetická anizotropia prevažuje u väčšiny skúmaných vzoriek na lesklom povrchu (AS). Tento charakter sa po odleptaní povrchov zoslabuje, čo je zrejme následok poklesu kompresívneho napätia (v rovine pásky) vyvolaného povrchmi. Matná strana (WS) vykazuje magnetickú anizotropiu v smere pozdĺž osi pásky. Taktiež substitúcia P namiesto B ukazuje, že prevaha pozdĺžnej anizotropie na WS (a priečnej na AS) je zrejme univerzálnym následkom pomerov pri príprave pásky- len nepodstatne sa mení pri zmene zloženia, ktoré závažne zasahuje do pomerov na povrchu pásky (P redukuje preferovanú povrchovú kryštalizáciu). Prevaha priečnej anizotropie na AS sa nemusí vždy prezradiť na hysteréznej slučke, preto je dôležité pozorovanie povrchovej anizotropie metódou MOKE pri zmene vonkajšieho magnetického poľa.
Publikácie: 1 CC, 2 príspevky na medzinárodných konferenciách, 1 prijatá do tlače .

Programy: Medziústavná dohoda

2.) Štúdium silne intragujúcej hmoty, Hadrónová fyzika 3 *(Study of Strongly Interacting Matter, HadronPhysics3)*

Zodpovedný riešiteľ:	Stanislav Hlaváč
Trvanie projektu:	1.1.1995 / 30.12.2016
Evidenčné číslo projektu:	TARI 283286
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Prof. Piotr Salabura, Jagellonian University
Počet spoluriešiteľských inštitúcií:	6 - Česko: 1, Nemecko: 1, Francúzsko: 1, Poľsko: 1, Portugalsko: 1, Rusko: 1
Čerpané financie:	

Dosiahnuté výsledky:

Programy: Medzivládna dohoda

3.) Vytvorenie elektronickej aparatúry pre experimenty v relativistickej fyzike ťažkých a ľahkých iónov na urýchľovači Nuclotrón *(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 / 31.12.2016
Evidenčné číslo projektu:	08626319/1020103-7400000000
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií:	1 - Rusko: 1
Čerpané financie:	JINR, Dubna, RF: 3000 €

Dosiahnuté výsledky:
Na základe skúseností získaných počas práce stanice vnútorných terčov v experimente na urýchľovači Nuklotrón v januári 2015 boli uskutočnené viaceré väčšie úpravy v hardvérovej a softvérovej časti experimentálneho zariadenia:
1. Zistilo poškodenie riadiacej elektroniky v dôsledku radiácie. Bolo nutné premiestniť riadiacu elektroniku ďalej od stanice a vhodne ju tieniť. To vyžadovalo zmeny hardvéru a následné úpravy v nastaveniach krokového motora otáčajúceho terče.
2. Ďalej bola vypracovaná nová verzia riadiaceho programu zvyšujúca spoľahlivosť práce stanice, kde boli pridané ďalšie zabezpečenia zabraňujúce nesprávnej obsluhe zariadenia počas experimentu, napr. zabránenie zastavenia terčov v dráhe zväzku, zabezpečenie identifikácie polohy terčov po výpadku napájania, atď.
3. Softvér bol rozšírený o ďalšie možnosti načítania a zápisu trajektórie pohybu terčov vo zväzku s vyššou vzorkovacou frekvenciou (25 kHz) a presnejším odčítaním času vďaka použitiu 64-bitových čítačov.
4. Hardvérové vybavenie bolo rozšírené o blok vysokonapäťových zdrojov pre detektory a ich riadenie.

Programy: COST

4.) Nanoscale Quantum Optics *(Nanoscale Quantum Optics)*

Zodpovedný riešiteľ:	Vladimír Bužek
Trvanie projektu:	2.12.2014 / 1.12.2018
Evidenčné číslo projektu:	COST Action MP 1403
Organizácia je koordinátorom projektu:	nie
Koordinátor:	University of Siegen
Počet spoluriešiteľských inštitúcií:	4 - Francúzsko: 1, Veľká Británia: 1, Švajčiarsko: 1, Švédsko: 1
Čerpané financie:	
	Podpora medzinárodnej spolupráce z národných zdrojov: 4000 €

Dosiahnuté výsledky:
Bol publikovaný jeden článok, v ktorom sme experimentálne preskúmali možnosť laserovania a chladenia pomocou supravodivého kvantového bitu. Získané výsledky vo výbornej zhode s teoretickými predpoveďami.

5.) 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:	Podpora medzinárodnej spolupráce z národných zdrojov: 4000 €

Dosiahnuté výsledky:
Kvantovej termodynamiky sa týkajú 3 naše publikácie, v ktorých sme numericky analyzovali termodynamické vlastnosti spinových systémov. Konkrétne sme navrhli model popisujúcu správanie spoločnosti v equilibriu a identifikovali sme fázové prechody v takto modelovanej spoločnosti. V ďalších článkoch sme vyšetrovali vplyv geometrie spinovej mriežky na kritické teploty.

6.) Pokročilá rentgenová priestorová a časová metrológia *(Advanced X-ray spatial and temporal metrology)*

Zodpovedný riešiteľ:	Matej Jergel
Trvanie projektu:	16.11.2012 / 15.11.2016
Evidenčné číslo projektu:	MP1203
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Dr Philippe ZEITOUN, CNRS LOA, ENSTA, Chemin de la Hunier, 91671 Palaiseau
Počet spoluriešiteľských inštitúcií:	19 - Nemecko: 1, Dánsko: 1, Španielsko: 2, Estónsko: 1, Fínsko: 1, Francúzsko: 2, Veľká Británia: 1, Grécko: 1, Maďarsko: 1, Švajčiarsko: 1, Írsko: 2, Taliansko: 1, Poľsko: 1, Portugalsko: 1, Rumunsko: 1, Slovinsko: 1
Čerpané financie:	SAV: 4000 €

Dosiahnuté výsledky:
Vyvíjali sme ďalej výskumné aktivity v rámci pracovnej skupiny č.1 „Priestorová metrológia rtg optiky“.

Vypracovali sme protokoly pre komplexnú charakterizáciu aktívnych povrchov rtg difrakčnej optiky opracovaných metódou jednobodového sústruženia diamantovým hrotom založené na kombinácii atómovej silovej mikroskopie, hrotovej profilometrie a Ramanovej konfokálnej mikroskopie, ktoré poskytujú informáciu o kvalite povrchu z hľadiska morfológie (lokálna drsnosť, planarita) a podpovrchového poškodenia kryštálovej mriežky.

Hore uvedené protokoly sme úspešne aplikovali ako spätnú väzbu pri vývoji technológie „single point diamond turning“ (SPDT)a „fly cutting“ (FC) na monokryštáloch Ge, kde sme dosiahli lokálnu drsnosť 0.3nm a bezdislokačnú podpovrchovú kryštálovú mriežku.

Vyvinutá metóda FC bola aplikovaná pri príprave V-kanálikových rtg monochromátorov pre žiarenie GaKalfa, ktoré boli testované na zariadení Nanostar s Ga kvapalnou anódou. Boli demonštrované výhody kompresie rtg zväzku v porovnaní s tradičnou štrbinovou kolimáciou pre aplikácie v rtg metrológii a takisto možnosti rtg zobrazovania v svetlom aj tmavom poli v expanznom móde s rozlíšením niekoľko mikrometrov, čo je zaujímavé hlavne pre štúdium biologických objektov.

Výsledky boli publikované v 3 CC časopisoch a v 3 konferenčných zborníkoch.

7.) Koloidné aspekty nanovied pre inovatívne procesy a materály *(Colloidal Aspects of Nanoscience for Innovative Processes and Materials)*

Zodpovedný riešiteľ:	Eva Majková
Trvanie projektu:	19.1.2012 / 18.1.2016
Evidenčné číslo projektu:	COST CM1101
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Prof. Piotr WARSZYNSKI J. Haber Institute of Catalysis and Surface Chemistry Poland,
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	MVTS SAV: 4000 €

Dosiahnuté výsledky:
V tomto roku sme sa venovali aplikáciám nanočastíc ako anti-reflexných/rozptylových vrstiev pre solárne články. Aplikovali sme na povrch solárneho článku SiO2 nanocastice terminované samousporiadanou molekulárnou vrstvou OTS. Takto pripravené vrstvy zvyšujú účinnosť solárneho článku a súčasne prinášajú pridanú hodnotu superhydrofóbnosti.

8.) Stable Next-Generation Photovoltaics: Unravelling Degradation Mechanisms of Organic Solar Cells by Complementary Characterization Techniques *(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: 3666 €

Dosiahnuté výsledky:

9.) 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:	SAS: 4000 €

Dosiahnuté výsledky:
V rámci projektu COST MP1207 sme vyvinuli inovatívnu metódu zväčšujúceho zobrazovania objektov v SAXS móde. Pri realizácii sme využili dva navzájom skrížené Braggove zväčšováky naladené na špecifický bod v reciprokom priestore. Ako modelový systém sme využili vrstvu behenátu striebra (AgBH) na TEM mikroskopickej mriežke. Vrstvu AgBH sme dokázali rozlíšiť s priestorovým rozlíšením 10 um. Naše prvotné výsledky boli prezentované na konferencii SAS 2015 v Berlíne tento rok.

10.) Fundamentálne problémy kvantovej fyziky *(Fundamental Problems in Quantum Physics)*

Zodpovedný riešiteľ:	Mário Ziman
Trvanie projektu:	11.4.2011 / 10.4.2015
Evidenčné číslo projektu:	oc-2010-1-7320
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Dr. Angelo Bassi, Department of Physics, University of Trieste, Italy
Počet spoluriešiteľských inštitúcií:	7 - Rakúsko: 1, Nemecko: 1, Španielsko: 1, Veľká Británia: 1, Švajčiarsko: 1, Írsko: 1, Portugalsko: 1
Čerpané financie:	Podpora medzinárodnej spolupráce z národných zdrojov: 1000 €

Dosiahnuté výsledky:
V tomto roku v ostávajúcich 3 mesiacoch projektu sme dokončili a opublikovali článok Phys. Rev. A 92, 012304 (2015), ktorý bol pokračovaním našej predošlej práce. Zaujímavým výsledkom je, že abstraktný koncept hraničnosti operačne vymedzuje unitárne kanály. Konkrétne optimalita je dosiahnuté práve unitárne kanály.

Programy: CERN/MŠ

11.) 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: 5000 €

Dosiahnuté výsledky:
V roku 2015 bola na OJF FÚ SAV ukončená prvá fáza analýzy experimentálnych dát z experimentu IS521 na komplexe ISOLDE v CERN. Boli demonštrované unikátne možnosti novej generácie HPGe detektorov, tzv BEGe detektorov, ktorých vynikajúce rozlíšenie umožňuje použitie Rydberg-Ritzovej metódy na vyhodnocovanie nameraných spektier a zostavovanie schémy experimentálnych hladín a prechodov. V roku 2015 tiež pokračovali prípravy na vykonanie experimentu IS581 pre štúdium štiepenia ťažkých rádioaktívnych zväzkov na budovanom komplexe HIE-ISOLDE s využitím aktívneho terča ACTAR. Celkovo boli publikované 4 články v CC časopisoch.

Programy: 7RP

12.) Simulátory a rozhrania s kvatovými systémami *(Simulators and Interfaces with Quantum Systems)*

Zodpovedný riešiteľ:	Vladimír Bužek
Trvanie projektu:	1.5.2013 / 30.4.2016
Evidenčné číslo projektu:	600645
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Universitaet Ulm
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	Európska Komisia: 33192 € APVV: 5233 € Podpora medzinárodnej spolupráce z národných zdrojov: 4000 €

Dosiahnuté výsledky:

13.) Kvantové technológie pre Európu *(Quantum Technologies for Europe)*

Zodpovedný riešiteľ:	Mário Ziman
Trvanie projektu:	1.2.2013 / 31.1.2016
Evidenčné číslo projektu:	600788
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií:	6 - Nemecko: 1, Španielsko: 1, Francúzsko: 1, Švajčiarsko: 1, Taliansko: 1, Švédsko: 1
Čerpané financie:	Európska Komisia: 61319 € Podpora medzinárodnej spolupráce z národných zdrojov: 19000 €

Dosiahnuté výsledky:
V poslednom roku projektu bola zorganizovaná veľká medzinárodná konferencia v anglickom Leeds. Druhou hlavnou úlohou bol update cestovnej mapy kvantových technológií. Všetky plánované úlohy projektu boli splnené.

Programy: International Visegrad Found (IVF)

14.) 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 koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	MVTS: 6250 €

Dosiahnuté výsledky:
Projekt je v začiatočnej fáze realizácie. Prebehlo prvé stretnutie zainteresovaných strán v Kobe, Japonsko.

Programy: Multilaterálne - iné

15.) Pokročilý výskum povrchov a povlakov pre nastupujúcu generáciu RTG difrakčnej optiky *(Surface engineering and advanced coatings for the next generation of X-ray diffractive optics)*

Zodpovedný riešiteľ:	Peter Šiffalovič
Trvanie projektu:	1.9.2013 / 31.8.2016
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií:	2 - Rakúsko: 2
Čerpané financie:	SAS: 25000 €

Dosiahnuté výsledky:
V roku 2015 sme sa venovali detailnému štúdiu kombinácie kompresujúceho kanálikového monochromátora s paralelným kanálikovým monochromátorom v disperznom usporiadaní. Navrhnutá experimentálna zostava umožňuje merania SAXS/GISAXS s vysokým rozlíšením 0,006 1/nm. Intenzitná priepustnosť systému je 0.1%. Dosiahnuté výsledky boli prezentované na konferencii SAS 2015 v Berlíne tento rok.

Programy: Bilaterálne - iné

16.) Pokročilé nanočasticové senzory plynov pre ochranu životného prostredia, zdravotníctvo a detekcie výbušnín *(Advanced nanoparticle gas sensors for environmental protection, health improvement and explosive detection)*

Zodpovedný riešiteľ:	Štefan Luby
Trvanie projektu:	1.1.2013 / 31.12.2015
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských	0

inštitúcií:
Čerpané financie:

<u>*Dosiahnuté výsledky:*</u>
Pripravili sme pokročilé gamma-Fe2O3 nanočasticové senzory plynov dekorované Pd nanočasticami. Hlavná výhoda dopovania Pd spočíva v znížení odporu senzorov o jeden rád a súčasne zníženie napájacieho napätia z 10 na 1 V. Súčiastky možno potom integrovať s vyhodnocovacou elektronikou. Dolný detekčný limit senzorov voči acetónovým parám je 790 ppb, čo je pod prahovou hodnotou 1 ppm diagnostikovania diabetes z dychu pacienta.

Tepelná stabilita of gamma- Fe2O3 a jeho transformácia na alfa fázu sa študovala žíhaním vo vzduchu. Zmiešaná fáza sa objavila medzi 500 a 600 oC a transformácia na čistý alfa hemnatit sa dosiahla pri 770 °C. Stabilita gamma-Fe2O3 do cca 550 °C je dostačujúca pre väčšinu aplikácií.

Analytická a počítačová metóda sa použila na stanovenie priestorového a časového rozloženia teploty v štruktúrach organických slnečných článkov ožiarených 7 ns laserovými impulzami pri 355 nm. Výsledky oboch prístuov poukazujú na teploty v štruktúrach okolo 100 °C.

17.) K nízkonákladovej vysoko účinnej organickej fotovoltike na báze polymérov s použitím grafénu a nanočastíc vzácnych kovov *(Towards low-cost and highly efficient polymer-based organic photovoltaics via Incorporation of graphene and noble metal nanoparticles)*

Zodpovedný riešiteľ:	Eva Majková
Trvanie projektu:	1.10.2013 / 30.9.2016
Evidenčné číslo projektu:	SAS - TUBITAK JRP 2013/6
Organizácia je koordinátorom projektu:	nie
Koordinátor:	
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV MVTS: 25000 €

<u>*Dosiahnuté výsledky:*</u>
Iným spôsobom prípravy nanočastíc je depozícia tenkej vrstvy kovu a následné teplené spracovanie, ktoré vedie k vzniku nanočastíc. V rámci projektu sme študovali rast tenkej vrstvy medi na graféne. Grafén je perspektívny materiál, ktorý môže byť použitý ako náhrada ITO vrstvy v solárnych článkoch. Rast medi na graféne bol študovaný in-situ pomocou GISAXS metódy. Prvé výsledky meraní boli prezentované na konferencii Graphene v Istanbule (15.-16.10.2015).

18.) Detekcia malých magnetických polí pomocou fyzikálne spracovaných rýchlochladených zliatin *(Physically processed rapidly quenched alloys for detection of low magnetic fields)*

Zodpovedný riešiteľ:	Peter Švec
Trvanie projektu:	1.11.2013 / 31.10.2016
Evidenčné číslo projektu:	SAS- TUBITAK JRP 2013 /1
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií:	1 - Turecko: 1
Čerpané financie:	Ú SAV: 24000 €

Dosiahnuté výsledky:
Využitím materiálov jadra snímačov z amorfných pások pripravených a technologicky spracovaných v predošlých etapách sme pripravili sériu prototypov snímačov a zhodnotili sme ich parametre, najmä citlivosť, veľkosť vlastného šumu a teplotnú stabilitu. Na základe výsledkov sme doladili technológiu spracovania pridaním žíhania pod mechanickým napätím na ďalšie zlepšenie linearity. Séria takto pripravených snímačov sa dlhodobo testuje.
Súčasne sme navrhli a vyvinuli snímač so zníženou snímacou plochou (laterálnym rozlíšením pod 0.1 mm) na báze amorfných drôtov. Optimalizáciou spracovania tenkých amorfných drôtov sme dosiahli laterálne rozlíšenie snímača nižšie ako 0.1 mm a citlivosť viac ako 150V/T s prakticky ideálnou linearitou v jednosmerných a nízkofrekvenčných poliach intenzity do 1 Oe a ultranízkym šumom. Výsledok umožňuje využitie snímačov na nedeštruktívne plošne rozlíšené testovanie feromagnetických konštrukcií (prednáška SMM16, pozvaná prednáška APCOM 2015, kapitola v knihe, článok v Meas. Sci. Technol.).

19.) Bilaterálny projekt FÚ SAV – SuperSTEM Laboratory Daresbury *(Agreement on Scientific and Technical Cooperation between IP SAS Bratislava and SuperSTEM Laboratory Daresbury)*

Zodpovedný riešiteľ:	Peter Švec, Jr.
Trvanie projektu:	1.11.2013 / 31.12.2015
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií:	1 - Veľká Británia: 1
Čerpané financie:	

Dosiahnuté výsledky:
Navrhli a technicky sme zrealizovali a implementovali metódy prípravy preparátov pre chemicky rozlíšenú elektrónovo-mikroskopickú analýzu na atomárnej úrovni minimalizujúcu prítomnosť artefaktov a kontaminácie v samotných preparátoch v dôsledku ich prípravy alebo v dôsledku kontaminácie pod elektrónovým zväzkom. Metodiku sme overili na štandardných kalibračných vzorkách a na vzorkách Al-Co-Pd s obsahom komplexných fáz.

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 koordinátorom projektu:	nie
Koordinátor:	IMDEA Nanociencia, Madrid
Počet spoluriešiteľských inštitúcií:	2 - Nórsko: 2
Čerpané financie:	U SAV: 6250 €

Dosiahnuté výsledky:

Navrhli sme sériu zložení a viaceré technologické postupy na prípravu štruktúr Al-Mn obsahujúcich feromagnetickú fázu tau-MnAl. Pripravili sme prvé vzorky a analyzovali sme ich štruktúru. Spoločne s partnermi projektu sme na prvom stretnutí riešiteľov rozpracovali návrhy na dosiahnutie optimálnych magnetických vlastností vzoriek na prípravu stredne silných permanentných magnetov bez obsahu strategických prvkov.

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:	

<u>*Dosiahnuté výsledky:*</u>
Zovšeobecnili sme algoritmus Tenzorovej Renormalizačnej Grupy vyššieho rádu za účelom štúdia fázových prechodov v Izingovom modeli na mriežke s fraktálnou štruktúrou, ktorej dimenzia je 3/2. Odvodili sme kritický exponent pre spontánnu magnetizáciu. Vypočítali sme priebeh von-Neumannovej entanglovanej entropie, ktorej maximum presne korešpondoval s existenciou fázového prechodu druhého rádu. Získali sme prekvapivý výsledok, v ktorom kritický bod fázového prechodu zodpovedal prvej derivácii špecifického tepla mimo nedivergujúceho maxima [1]. Študovali sme netriviálnu fázový diagram pomocou renormalizačnej grupy a získali sme veľmi komplexnú fázovú štruktúru pre zrezaný tetrahedrálny model [2].

Výsledky boli publikované v 2 CC časopisoch.

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:	
	Podpora medzinárodnej spolupráce z národných zdrojov: 2333 €

<u>*Dosiahnuté výsledky:*</u>

V spolupráci s hlavným riešiteľom projektu sme navrhli príravu vhodného typu a formy katalizátora na hydrolýzou vody v prítomnosti elektromagnetických polí. Prebieha kvalitatívne a kvantitatívne overovanie účinnosti procesu a štruktúrnych zmien vybraného typu katalyzátora.

Projekty národných agentúr

Programy: VEGA

1.) 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: 3654 €

Dosiahnuté výsledky:
V rámci projektu HADES sme sa sústredili na ďalší vývoj modulov pre elektromagnetický kalorimeter ECAL, ktorý sa vyvíja na doplnenie možností spektrometra HADES. Experimenty na kvázi monochromatickom zväzku fotónov na urýchľovači MAMI-C v Mainzi ukázali, že moduly Pb skla typu CEREN 25 s rozmermi 92x92x420 mm3 majú vlastnosti, ktoré umožnia rekonštrukciu neutrálnych mezónov produkovaných v zrážkach ťažkých iónov s dostatočným rozlíšením. Venovali sme sa aj ďalšiemu vývoju magnetického tienenia pre ECAL moduly s fotonásobičom priemeru 3“, kde sme vyrobili niekoľko kusov konečnej verzie tienení s požadovanými magnetickými a mechanickými vlastnosťami.

V teoretickej časti sme adaptovali štatistický excitónový model, aby bol použiteľný na výpočty emisie ľahkých klastrov aj v zrážkach ťažkých iónov.

Spoluúčasť na udržiavaní medzinárodných dátových knižníc EXFOR (Experimental nuclear reaction data) a NSR (Nuclear Science References).

2.) Vnútorné makroskopické sily - z čoho pochádzajú a ako ovplyvňujú magnetické vlastnosti vysokoindukčných kovových pások *(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: 1522 €

Dosiahnuté výsledky:

Potvrdili sme kompresívny (v rovine pásky) účinok vnútorných makroskopických síl v páskach zliatin typu Finemet so stredným obsahom Si (8 at.%) najmä po žíhaní v plynnej (inertnej) atmosfére. Pochádza z rozdielov povrch - vnútro pásky a v materiáli bez P má výlučne magnetoelastický charakter. Povrchová oxidácia podporuje nárast povrchového kompresívneho napätia pochádzajúceho najmä od preferovanej povrchovej Fe(Si) kryštalizácie. Výsledky ukazujú, že Si aj P tento efekt potláčajú. Fosfor redukuje mechanické napätie (obmedzením povrchovej Fe(Si) kryštalizácie), zachováva TC no v tomto materiáli umožňuje príspevok krípom-indukovanej magnetickej anizotropie po Ar žíhaní. Takže magnetická anizotropia typu ťažká os (obvyklá aj bez obsahu P) nie je oslabená. Kryštalicko-oxidické povrchy ovplyvňujú celkovú elasticitu pásky, čo sa prejaví na zmene efektívneho modulu pružnosti a ovplyvní napr.hodnotu magnetostrikcie (meranej z hodnoty predĺženia v poli).
Publikácie: 1 CC, 1 CC (za predchádzajúci grant), 2 príspevky na medzinárodných konferenciách, 1 prijatá do tlače v JEEC.

3.) Teoretický výskum ťažkých kvarkónií *(The theoretical investigation of heavy quarkonia)*

Zodpovedný riešiteľ:	Stanislav Dubnička
Trvanie projektu:	1.1.2013 / 31.12.2016
Evidenčné číslo projektu:	1/0158/13
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Fakulta matematiky, fyziky a informatiky UK
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 8168 €

Dosiahnuté výsledky:
Zaoberali sme sa štúdiom zriedkavého procesu rozpadu B -> K(*)l+l- kde l=e, mu, tau. Vypočítali sme zodpovedajúce formfaktory v rámci kovariantného kvarkového modelu s infračerveným uväznením v celej kinematickej oblasti prenesenej hybnosti. Vypočítané formfaktory boli použité na výpočet vetviacich pomerov a polarizačných premenných v kaskádovom rozpade B -> K(*)(-> K pi)l+l- a získané výsledky boli porovnané s dostupnými experimentálnymi údajmi a výsledkami iných teoretických prístupov.

Výsledky boli publikované v 3 prácach, z toho 1 v CC časopise a 2 v konferenčných zborníkoch.

4.) Kvantové zmiešavanie stavov častíc v externých magnetických poliach

Zodpovedný riešiteľ:	Peter Filip
Trvanie projektu:	1.1.2014 / 31.12.2016
Evidenčné číslo projektu:	2/0197/14
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 6851 €

Dosiahnuté výsledky:
Boli skúmané dôsledky extrémne silných magnetických polí (vznikajúcich v zrážkach jadier na urýchľovačoch LHC a RHIC) na rozpady hadrónových rezonancií typu K*, Sigma*, Delta(1232),

mezónov Phi(1019), Rho(770) a Kvarkóniových stavov J/Psi aj Upsilon. Kvantitatívne bola odhadnutá miera narušenia zákona zachovania izospinu v silných rozpadoch hadrónov, za prítomnosti magnetického poľa, v dôsledku redukcie fázového objemu nabitých dcérskych produktov vznikajúcich v kvantovom stave P-vlny (L=1). Výsledky boli prezentované na 4 medzinárodných konferenciách a opublikované 4x v recenzovaných zborníkoch z konferencií. Pomocou štúdia javu kvantovej superpozície stavov mezónov (q-q') v magnetickom poli, sa kvantitatívne podarilo odhadnúť vplyv externého magnetického poľa na zachovanie symetrie typu CP v zriedkavých rozpadoch eta(547)-->Pi+Pi-, a poukázali sme na možnosť modifikácie miery narušenia CP symetrie v raných štádiách expanzie vesmíru. Tieto výsledky boli prezentované na prestížnej EPS konferencii vo Viedni a opublikované v zborníku. V rámci štúdia Kvarkóniových stavov J/Psi a Upsilon boli získané cenné výsledky ohľadom dvojpiónových rozpadov Upsilon(ms)-->Upsilon(ns)+PiPi, prebiehajúcich procesom emisie dvoch gluónov. V spolupráci so zahraničnými vedcami boli tieto výsledky opublikované v časopisoch Phys.Rev.D (2x) a v zborníku z konferencie HS2015. Pre zrýchlenie analytických výpočtov v rámci teoretického štúdia anharmonického oscilátora bol vybudovaný 4-procesorový počítačový cluster (s 16 jadrami) poskytujúci dostatočný výkon pre interaktívne využívanie programového prostredia Mathematica. Vplyv externého poľa na kvantový systém bol analytickými metódami študovaný na jednoduchom lineárnom O(N) modeli a tiež vo výpočtoch propagátora Phi^4 teórie predpokladajúc časovú závislosť interakčného člena. V rámci zahraničnej spolupráce sme sa zúčastnili aj na meraní ultrarelativistických zrážok p+p aj Au+Au na urýchľovači RHIC s cieľom presného experimentálneho určenia produkcie Kvarkóniových stavov.

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 koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií:	3 - Rakúsko: 1, Česko: 1, Poľsko: 1
Čerpané financie:	VEGA: 8753 €

Dosiahnuté výsledky:

Analyzovali sme dvojdimenzionálny kvantový spinový systém pomocou dekompozície vlastného funkcie základného stavu v tvare tenzorového súčinového stavu. Pre tento účel sme zovšeobecnili numerický algoritmus Corner Transfer Matrix Renormalization Group za účelom získania energií základného stavu a fázových prechodov v Heisenbergovom, XY, and Izingovom modeli v transverzálnom magnetickom poli na euklidovskej štvorcovej mriežke ako aj na hyperbolicky zakrivenej päťuholníkovej mriežke. Po zovšeobecnení tohto algoritmu na rôzne neeuklidovské mriežkové geometrie, ktoré sú vytvorené pravidelným vzorkovaním kongruentnými mnohouholníkmi s konštantným koordinačným číslom 4, sa nám úspešne podarilo vypočítať vlastnosti základných stavov ako aj fázových prechodov vyššie uvedených spinových modelov. Preformulovali sme metódu Tenzorovej renormalizačnej grupy vyššieho rádu za účelom štúdia fázových prechodov v Izingovom modeli na mriežke s fraktálnou štruktúrou, ktorej dimenzia je 3/2. Objavili sme úplne nový predpis, ktorý definuje vzťah medzi voľnou energiou (energiou základného stavu) a mriežkovou geometriou, na ktorej interagujú ľubovoľné mnohostavové spinové modely. Študovali sme netriviálnu fázový diagram pomocou renormalizačnej grupy a získali sme veľmi komplexnú fázovú štruktúru pre zrezaný tetrahedrálny model interagujúcich spinov a multicomponentny Widom-Rowlinsonov model bol analyzovaný.

Výsledky boli publikované v 4 CC časopisoch a zaslané do ďalších 2 CC časopisov.

6.) Stabilita ťažkých jadier a neutrónové hviezdy *(On stability of heaviest nuclei and neutron star)*

Zodpovedný riešiteľ:	Štefan Gmuca
Trvanie projektu:	1.1.2013 / 31.12.2015
Evidenčné číslo projektu:	2/0176/13
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 8449 €

<u>*Dosiahnuté výsledky:*</u>
V hustotne závislých relativistických hadrónových prístupoch nie je explicitne zahrnutá závislosť na hybnosti. Preto, ak sú efektívne parametrizácie väzbových konštánt extrahované z mikroskopických DBHF self-energií, je ich opis väzbových energií z DBHF prístupov neuspokojivý. Ukázali sme, že výrazné zlepšenie je možné dosiahnuť zavedením hybnostne závislých vertexov založených na 2-parametrickej triede hustotne závislých funkcií.

7.) Nanokompozitné tenké vrstvy – vlastnosti a použitie v senzorike *(Nanocomposite thin films – properties and applications in sensorics)*

Zodpovedný riešiteľ:	Katarína Gmucová
Trvanie projektu:	1.1.2013 / 31.12.2016
Evidenčné číslo projektu:	VEGA 2/0165/13
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 4186 €

<u>*Dosiahnuté výsledky:*</u>
Polytiofén (P3HT) je polovodivý polymér, ktorý sa často využíva v solárnych článkoch a v elektrochemických senzoroch. Študovali sme tvorbu chemických defektov v tomto materiáli pod vplyvom pôsobenia vlhkého prostredia. Za týmto účelom sme analyzovali fotovoltický proces v čistých aj na vzduchu exponovaných vzorkách, ktorý bol vyvolaný absorbciou fotónu v P3HT, a následkom ktorého boli generované excitóny. Elektrochemickými spektroskopickými metódami sme zmapovali jemnú elektrónovú štruktúru zakázaného pásu. Vyhodnotili sme vplyv vlhkého prostredia na tvorbu chemických defektov.

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	áno

koordinátorom projektu:	
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 13363 €

Dosiahnuté výsledky:
V rámci vývoja technológie jednobodového diamantového sústruženia pre prípravu aktívnych povrchov rtg difrakčnej optiky bola detailne študovaná závislosť morfológie povrchu a podpovrchového poškodenia kryštalickej mriežky od parametrov obrábania (rýchlosť posuvu rezného nástroja, hĺbka úberu, otáčky) s cieľom minimalizovať lokálnu povrchovú drsnosť a defekty mriežky pri zachovaní dobrej planarity povrchu. Aplikáciou dvoch verzií tejto technológie ("single point diamond turning" a "fly cutting") sa podarilo znížiť lokálnu povrchovú drsnosť monokryštálov Ge na 0.3nm pri planarite povrchu 10exp(-5). Vysokorozlišovacia elektrónová mikroskopia ukázala prítomnosť 30nm hrubej amorfnej vrstvy pri povrchu, pod ktorou sa nevyskytovali žiadne dislokácie ani iné defekty mriežky. Tento výskum bol vedený v spolupráci s firmou Integra TDS s.r.o. Piešťany.

Súbežne s vývojom technológie sme v spolupráci s firmou Technodiamant Almere BV, Holandsko, zdokonaľovali aj usporiadanie pracovného nástroja. Išlo predovšetkým o uchytenie diamantového hrotu zboku, aby sa dali opracovať vnútorné steny kanálikových monochromátorov, uhol sklonu rezného nástroja a hrúbku stopky, aby nedochádzalo ku kmitaniu.

Boli vykonané simulácia teplotných deformácií pri nanoobrábaní kryštálovej rtg optiky a preskúmaný vplyv gradientu teploty generovanej nástrojom pri nanoobrábaní na presnosť tvaru opracovaného povrchu. Za štandardných podmienok procesu prichádza k absolútnym nepresnostiam spôsobených dilatáciou nástroja na úrovni jednotiek nm, čo je podstatne menej ako sa pozoruje v reálnom procese. Preto príčiny väčších nepresností treba hľadať v iných sprievodných javov ako sú tuhosť mechanizmov zariadenia a presnosť dodržania predpísanej teploty zariadenia pracoviska s presnosťou na desatiny stupňa.

Výsledky boli publikované v 2 CC časopisoch a v 3 konferenčných zborníkoch.

9.) Rastrovací nábojový tranzientový mikroskop na zobrazovanie a analýzu mäkkých vzoriek
(Scanning Charge-Transient Microscope for Imaging Soft Samples)

Zodpovedný riešiteľ:	Štefan Lányi
Trvanie projektu:	1.1.2014 / 31.12.2016
Evidenčné číslo projektu:	2/0099/14
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	VEGA: 3014 €

Dosiahnuté výsledky:
V roku 2015 sme sa venovali o.i. zobrazovaniu a nábojovej tranzientovej analýze vzoriek grafénu. Výsledky odhalili možný problém pri zobrazovaní topografie vzoriek s vysokou vodivosťou, akou grafén nesporne je – pomerne malý odpor medzi hrotom sondy mikroskopu a „zemou“ spôsobuje zvýšenie zosilnenia integrátora, ktorý súčasne plní aj funkciu zosilňovača prúdu, napájajúceho ladičku sondy mikroskopu. Pri náhlej zmene vzdialenosti hrotu sondy od zobrazovaného povrchu,

konkrétne jej zmenšení, nad povrchom, ktorý nie je atomárne hladký, regulátor spôsobí odskok a pomalý návrat do predvolenej vzdialenosti. To sa prejavuje ako nežiadúca porucha zobrazenia. Riešením je použitie väčšej pracovnej vzdialenosti sondy od povrchu, čo zas ide na úkor laterálnej rozlišovacej schopnosti. Východiskom je voľba pomerne malej rýchlosti skenovania.
Spracovanie spektier, získaných na grafénoxide odhalilo nečakaný jav: kým spektrá snímané v kontaktnom móde dávali dobre definované píky s jednou polaritou, v bezkontaktnom móde snímané dávali spektrá zdanlivo obsahujúce aj pík opačnej polarity. Vysvetľujeme to zánikom zachyteného náboja dvoma konkurenčnými procesmi, vybitím s polaritou opačnou ako záchyt (t.j. nabíjanie) a vedením cez tenkú vrstvu (smer prúdu rovnaký ako pri nabíjaní)
Ostrý hrot sondy s malým vrcholovým uhlom, výhodný pri zobrazovaní povrchu, sa ukázal ako ľahko zraniteľný pri tranzientovej analýze v kontaktnom režime. Zmenou technológie leptania sme uhol kuželovitej časti zväčšili z pôvodných cca. 5° na približne 60°. Zväčšenie rozptylovej kapacity v kontaktnom režime snímania tranzientov nevadí.

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

Zodpovedný riešiteľ:	Vojtech Nádaždy
Trvanie projektu:	1.1.2015 / 31.12.2018
Evidenčné číslo projektu:	1/0501/15
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Fakulta chemickej a potravinárskej technológie, STU v Bratislave
Počet spoluriešiteľských inštitúcií:	3 - Slovensko: 3
Čerpané financie:	VEGA: 2706 €

<u>*Dosiahnuté výsledky:*</u>
V zmysle plánovaných úloh sme optimalizovali prípravu tenkých vrstiev polytiofénových polymérov (P3DDT, P3PT a P3HT), ktoré boli syntetizované na spolupracujúcom pracovisku Fakulty chemiskej a potravinárskej technológie STU. Vykonali sme základnú charakterizáciu štruktúry týchto vrstiev ako aj ich zmesí s derivátom fullerénu (PCBM) metódami XRD, AFM a optických vlastností týchto vrstiev metódou UV Vis spektroskopie. Elektrónovú štruktúru týchto vrstiev sme vyšetrovali novou elektrochemickou metódou (Energy Resolved Electrochemical Impedance Spectroscopy - ER-EIS), ktorá bola vyvinutá v našom laboratóriu.

Výsledky boli publikované v 2 CC časopisoch.

11.) Uväznenie a vlastnosti základného stavu v kvantovej chromodynamike a v riešiteľných modeloch *(Confinement and Properties of the Ground State in Quantum Chromodynamics and Solvable Models)*

Zodpovedný riešiteľ:	Štefan Olejník
Trvanie projektu:	1.1.2013 / 1.12.2016
Evidenčné číslo projektu:	2/0072/13
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 4567 €

Dosiahnuté výsledky:
V r. 2015 sme skúmali hlavne nasledujúce problémy:

- vlnový funkcionál vákua Yangovej-Millsovej kalibračnej teórie v 3+1 rozmernom časopriestore pre realistické mriežkové konfigurácie polí,

- presne riešiteľné modely kvantovej teórie poľa s fermiónmi s nulovou hmotnosťou vo formulácii na svetelnom fronte.

Výsledky boli uverejnené v dvoch článkoch v odborných časopisoch a v jednej pozvanej prednáške na konferencii "4th Winter Workshop on Non-Perturbative Quantum Field Theory" v Sophii Antipolis (Franc.).

12.) Výskum mikroštruktúrnych, elektrických a optických vlastností polovodičovo-dielektrických systémov

Zodpovedný riešiteľ:	Emil Pinčík
Trvanie projektu:	2.1.2013 / 31.12.2015
Evidenčné číslo projektu:	1/0853/13
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Inštitút Aurela Stodolu Žilinskej Univerzity
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 1042 €

Dosiahnuté výsledky:
Výskum bol sústredený na štúdium morfologických, elektrických a optických vlastností štruktúr cca 5 nm HfO_2/ultratenký SiO_2/c-Si. Fyzikálne vlastnosti rozhraní a objemov oboch vrstiev sformovaných na kremíkovým substrátom určujú možnosti ich použitia pri výrobe nanoelektronických alebo mikroelektronických súčiastok. V našom prípade boli vrstvy HfO_2 pripravené komerčným výrobcom v USA. Mali byť amorfné. Bolo však preukázané, že obsahujú aj monoklinickú fázu HfO_2, čo spôsobovalo nežiaducu zvýšenú elektrickú vodivosť týchto štruktúr. Medzivrstva ultratenká SiO_2, ktorá zlepšovala práve spomenutý parameter bola pripravovaná pomocou chemickej oxidácie v HNO_3.Bola uskutočnená analýza všetkých výsledkov a boli diskutované možnosti využitia podobných štruktúr v technológiách VLSI.

Výsledky projektu boli publikované v jednom zahraničnom časopise a v zborníku konferencie WOCSDICE2015. Prezentované boli taktiež na konferencii ALER 2015, 7-9 október 2015, Bobrovec pri Liptovskom Mikuláši.

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	3 - Česko: 1, Nemecko: 1, Japonsko: 1

inštitúcií:
Čerpané financie: VEGA: 3392 €

<u>*Dosiahnuté výsledky:*</u>
Výskum bol sústredený na porovnávanie najmä UV-VIS-IR transmisných a reflektančných spektier, morfologických vlastností povrchov a fotoluminiscenčných vlastností štruktúr čierneho Si pripravovaného pomocou katalytických vrstiev ako aj tzv. porézneho Si, ktorý sa pripravuje elektrochemicky. V tejto oblasti je potrebné realizovať ďalšie experimenty ktorých výsledkom budú i) reprodukovateľne pripravované štruktúry za presne definovaných podmienok a ii) exaktne vyhodnocované UV-VIS-IR a fotoluminiscenčné spektrá snímané pri rôznych teplotách skúmaných vzoriek. To sa týka oboch druhov štruktúr. V oboch spomenutých oblastiach sú zjavné nedostatky v doposiaľ publikovaných prácach, čo často vedie k nesprávnym interpretáciám nameraných výsledkov.

Výsledky projektu boli publikované v dvoch zahraničných časopisoch a v 4 konferenčných zborníkoch. Prezentované boli taktiež na konferencii ALER 2015, 7-9 október 2015, Bobrovec pri Liptovskom Mikuláši. V zborníku konferencie SURFINT - SREN IV boli opublikované tri príspevky.

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: 1142 €

<u>*Dosiahnuté výsledky:*</u>
V rámci projektu sme študovali problematiku prípravy náhodnosti s pomocou prístrojovo nezávislých zariadení. Publikovali sme prehľadový článok v časopise APS, jeden článok je zaslaný na publikovanie a dva ďalšie články sú v príprave.

15.) Kvantové kráčania a nekompatibilnosť *(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: 6469 €

<u>*Dosiahnuté výsledky:*</u>
V rámci projektu sme primárne pokročili v oblasti kvantovej nekompatibility, kde sme opublikovali dve práce týkajúce sa tejto témy.

16.) Výskum vplyvu vodivostných prúdov polovodičových štruktúr na DLTS *(Study the effect of leakage currents on the DLTS spectra)*

Zodpovedný riešiteľ:	Jaroslav Rusnák
Trvanie projektu:	1.1.2014 / 31.12.2016
Evidenčné číslo projektu:	2/0155/14
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 808 €

Dosiahnuté výsledky:

V tomto roku riešenia uvedeného projektu boli nasledovné výstupy: Bol vyvíjaný HW a SW meracieho zaradenia vyvíjaného v rámci projektu. Je to jedna z úloh projektu. Merací systém umožňuje skúmať niektoré elektrické vlastnosti polovodičov, ale aj iných materiálov. Boli skúmané elektrické vlastnosti materiálov PMMA v spolupráci s Dr. Tarasom Kavetskyyim, z inštitútu Drohobych Ivan Franko State Pedagogical University, Drohobych, Ukraine. Výsledky výskumu budú publikované v Spectroscopy Letters (časopis CC), s názom: Carbonization in boron-ion-implanted polymethylmethacrylate as revealed from Raman spectroscopy and electrical measurements. Ďalej boli skúmané elektrické vlastnosti keramických materiálov v spolupráci s Dr. Raghvendra Singh Yadav, Materials Research Centre, University of Technology, Purkyňova 464/118, CZ-612 00 Brno. Výsledky výskumu budú publikované v budúcom roku, v Ceramics International (časopis CC), s názvom : Consequence of Consolidation of Co1-xZnxFe2O4 (x=0.0, 0.5) Nanoparticles by Hot-Press Sintering on Structural, Magnetic and Electrical Properties. Ďalším výstupom projektu bola prezentácia výsledkov jednej časti riešenia projektu na konferencii ALER 2015. Prezentácia sa týkala chýb spomínaného meracieho systému v minulom roku riešenia. Tieto boli rozšírené a prezentované, ako prednáška a publikácia v zborníku.

17.) Kvantovo-informatické konvexné štruktúry *(Quantum-informational convex structures)*

Zodpovedný riešiteľ:	Michal Sedlák
Trvanie projektu:	1.1.2013 / 31.12.2015
Evidenčné číslo projektu:	2/0125/13
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 8237 €

Dosiahnuté výsledky:

Nosnou témou projektu QUICOST je hlbšie štúdium vlastností konvexných kvantových štruktúr.
Tento rok sme publikovali súvis medzi extremalitou kvantového 1-testera a stavov a meraní pomocou, ktorých môže byť realizovaný. Získaná podmienka pre merania je silnejšia ako obyčajná extremalita meraní. Vypočítali sme mieru nekompatibility kvantových testerov (meraní na kanáloch) pre dvojvýsledkové qubitové testery a identifikovali sme kvalitatívne aj kvantitatívne rozdiely voči nekompatibilite kvantových meraní. V predchádzajúcich rokoch sme pre ľubovoľnú konvexnú množinu sa zaviedli pojem hraničnosti (boundariness), ktorý udáva „vzdialenosť“ bodu od hranice konvexnej množiny do ktorej patrí. V tohto ročnom článku sme ukázali, že tento koncept jednoducho matematicky i operačne charakterizuje špeciálne typy extremálnych prvkov (konkrétne

čisté stavy, projektívne merania a unitárne transformácie). Vyvinuli sme ad-hoc algoritmus na experimentálne určenie tzv. kvantového pamäťového zariadenia, ktoré je formálne reprezentované translačne invariantnou unitárnou transformáciou popisujúcou interakciu vstupov s vnútornou pamäťou zariadenia.

18.) Štatistická fyzika priestorovo ohraničených systémov

Zodpovedný riešiteľ:	Ladislav Šamaj
Trvanie projektu:	1.1.2015 / 31.12.2017
Evidenčné číslo projektu:	VEGA 2/0015/15
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 6851 €

Dosiahnuté výsledky:
Bola skonštruovaná systematická metóda na výpočet efektívneho náboja cylindrických a sférických koloidov ponorených do elektrolytu, v kvázi-planárnej limite. Bol spočítaný fázový diagram základného stavu Wignerovej dvojvrstvy bodových nábojov s Yukawovskými párovými interakciami. Pre polonekonečné 2-rozmerné Coulombovské fluidy bol nájdený vzťah medzi amplitúdnou funkciou, ktorá charakterizuje asymptotický mocninný pokles korelačných funkcií pozdĺž steny, a profilom hustoty častíc. Pre zovšeobecnenie mnohostavového modelu Widoma-Rowlinsona. boli nájdené reentrantné disorder-disorder prechody cez usporiadanú kryštalickú fázu. Metóda na výpočet efektívneho difúzneho koeficientu bola zovšeobecnená na trojrozmerné kanály s cylindrickou symetriou.

19.) Uväznené molekulárne systémy a ich dynamika v čiastočne zaplnených nanometrových póroch

Zodpovedný riešiteľ:	Ondrej Šauša
Trvanie projektu:	1.1.2014 / 31.12.2016
Evidenčné číslo projektu:	2/0164/14
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 2284 €

Dosiahnuté výsledky:
Skúmali sa voľnoobjemové charakteristiky vody rôznej koncentrácie v póroch uhlíkových vlákien pripravovaných karbonizáciou celulózy. Jednoduchá príprava a vysoká porozita predurčuje tieto materiály ako nosiče sorbentov dôležitých z hľadiska životného prostredia (napr. sorbovanie arzénu z pitnej vody). Sledovala sa štruktúra pórov základnej matrice, kde sa ukazuje, že póry sledovane pozitrónovou sondou majú priemernú veľkosť okolo 0.5-0.6 nm, čo potvrdzuje Ar adsorbcia. Testoval sa pri tom aj model určenia veľkostí pórov z doby života t2 priamej e+ - e- anihiláce, bez prítomnosti pozitrónia (Ps).
Namerali sa voľnoobjemové charakteristiky niektorých objemových látok, ktoré budú neskôr sledované v uväznených systémoch. Jednalo sa o N,N-dimetylformamid s výraznejšími zmenami vo

voľnom objeme v oblasti fázového prechodu v závislosti od štruktúry vzorky pripravenej pomalým chladením a chladením s rýchlosťou 2K/min. Druhou látkou bol 1-propanol, kde sa zmerali základné voľnoobjemové charakteristiky v bulkovom stave a začali sa merania 1-propanolu uväznenom v SBA matrici pri rôznych vybraných koncentráciách uväzneného média.
Boli zistené rozdiely v správaní sa voľného objemu vo vode uväznenej v póroch montmorillonitu (MMT, model rovinných platní) oproti bulkovej vode. MMT bol plnený vodou pomocou nasýtených pár a sledovala sa aj desorpcia vody pomocou PALS ako aj metódami TGA a DSC. Merania pokračujú pri rôznych množstvách vody v matrici a sleduje sa dynamika vody v rôznych miestach lokalizácie (v strede ílovej medzivrstvy, resp. pri jej vnútornom povrchu.
Pokračovalo sa v štúdiu polymetylmetakrylátu so zmeneným zosietením polymérnych reťazcov v dôsledku ožiarenia iónmi bóru.

Výsledky boli publikované v 3 publikáciách, z toho 1 v CC časopise, a v dvoch kapitolách monografie.

20.) 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 koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 14133 €

<u>*Dosiahnuté výsledky:*</u>
Grafén v veľkým pomerom plochy k objemu je ideálnym kandidátom pre aplikácie v chemických senzoroch. Nedávno bolo demonštrované, že citlivosť grafénových senzorov môže byť zvýšená prítomnosťou kovových nanočastíc na báze Pd alebo Pt. V prvom roku projektu sme študovali senzitivitu viacerých vrstiev grafénu dekorovaných Pd nanočasticami pre monitorovanie koncentrácie plynov NO2 a H2.

21.) Prvoprincípové počítačové modelovanie v nanotechnológiách *(First-principles computer modeling in nanotechmology)*

Zodpovedný riešiteľ:	Ivan Štich
Trvanie projektu:	1.1.2015 / 31.12.2017
Evidenčné číslo projektu:	2/0162/15
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 11418 €

<u>*Dosiahnuté výsledky:*</u>
Zaoberali sme sa štúdiom atomárnej štruktúry povrchu Al2O3 (alumina) založenej na modelovaní NC-AFM obrazov tohoto technologicky mimoriadne dôležitého systému. Potrvdili sme chemické

zloženie elementárnej bunky rozhrania Al2O3/AlNi vôbec prvým identifikovaním všetkých rôzne koordinovaných Al atómov a študovali sme akým spôsobom ovplyvňuje nesumerateľnosť tohto rozhrania obrazy získané NC-AFM. Ďalej sme študovali magnetizmus a spinový transport v jednorozmerných organometalických štruktúrach obsahujúcich prechodové prvky použitím metódy QMC (Kvantove Monte Carlo) a NC-AFM manipuláciou atómov cobaltu na zoxidovaných medených povrchoch s dôrazom na popis dlhodosahových Friedelových oscilácii medzi jednotlivými atomami cobaltu. Nami navrhovaný model umožňuje vytvorenie friedelových spinových pascí cielenou manipuláciou okolitých atómov kobaltu.

22.) Nové kovové materiály s komplexnou štruktúrou a mimoriadnymi objemovými a povrchovými vlastnosťami

Zodpovedný riešiteľ:	Peter Švec
Trvanie projektu:	1.1.2014 / 31.12.2016
Evidenčné číslo projektu:	2/0189/14
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 15985 €

Dosiahnuté výsledky:
Navrhli a preskúmali sme dva nové základné typy systémov rýchlochladených materiálov, ktoré v stave po nanokryštalizácii vykazujú vysoké hodnoty magnetizácie v nasýtení a nízke hodnoty koercitívneho poľa. Prvú skupinu predstavujú modifikované systémy na báze Fe-Co-B s dodatkami malých množstiev Si, Cu, P a C (tzv. NANOMET), kde kompozičnou optimalizáciou a vyvinutými algoritmami spracovania sme dosiahli stabilizáciu nanoštruktúry, ktorá je podmienkou vytvorenia magneticky mäkkých materiálov. Súčasne sme v klasických nanokryštalických materiálov na báze Fe-Si-B spravili koreláciu medzi makroskopickou heterogenitou, povrchovou anizotropiou pozorovanou pomocou MOKE a magnetickými vlastnosťami rýchlochladených pások. Ďalšiu skupinu predstavujú nanokryštalické systémy na podobnej báze, kde sme ako náhradu za kritické prvky (napr. Nb) použili Sn. Na základe podrobnej štruktúrnej, fázovej a kinetickej analýzy a cieleného spracovania sme pripravili unikátne nanokryštalické magneticky mäkké materiály perspektívne vhodné pre kompozitné magnetické obvody, senzory a tienenia magnetických polí (2x pozvaná prednáška, JALLCOMM, Mat. Res., Appl. Phys. Let., atď.). Špeciálne metódy in-situ štruktúrnej analýzy sme využili pri objasnení javov na rozhraniach medzi kovovou matricou a nanočasticami v systémoch Cu-Co, Al-SiC, Al-Fe-Si, Al-Ni, Al-Mg a ternárnych systémoch Al-Co s prímesami vzácnych zemín, kde sme poukázali na existenciu zobecneného mechanizmu kryštalizácie z amorfného stavu (JMMM, Mat. Sci. Engn A., kapitola v knihe, atď.).

23.)
Zákonitosti tvorby a termodynamická stabilita štruktúrne komplexných fáz v zliatinách na bá ze hliníka alebo zinku

Zodpovedný riešiteľ:	Peter Švec, Jr.
Trvanie projektu:	1.1.2015 / 31.12.2017
Evidenčné číslo projektu:	1/0018/15
Organizácia je koordinátorom projektu:	nie
Koordinátor:	MTF STU
Počet spoluriešiteľských	0

inštitúcií:
Čerpané financie: VEGA: 4060 €

Dosiahnuté výsledky:
Na pripravenom súbore vzoriek systémov Al-Pd-Co a Fe-Ni-Nb-B sme preskúmali vznik, stabilitu, atomárnu štruktúru a chemické usporiadanie komplexných fáz typu epsilon-16 a Fe23B6. Ukázali sme výborný súlad medzi experimentálne pozorovaným chemickým usporiadaním atómov v komplexných fázach a modelmi štruktúr získanými pomocou prvoprincípových výpočtov (pozvaná prednáška a poster na C-MAC Summer School 2015). Súčasne sme overili existenciu odchyliek v usporiadaní fazónových dlaždíc a existenciu defektov v dláždení v Al-Pd-Co a takmer úplnú monofázovosť predpokladanú v Fe-Ni-Nb-B s vysokým obsahom bóru.

24.) Tvarová koexistencia v ťažkých atómových jadrách

Zodpovedný riešiteľ:	Martin Venhart
Trvanie projektu:	1.1.2014 / 31.12.2016
Evidenčné číslo projektu:	2/0121/14
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 9134 €

Dosiahnuté výsledky:
Analyzované boli dáta z experimentu S17, realizovaného na Univerzite v Jyväskylä v roku 2013. Bola vykonananá analýza stability zosilnenia gama detektorov pracujúcich vo fokálnej rovine separátora RITU. Na jej základe boli identifikované dlhožijúce vzbudené stavy, ktoré emitujú gama žiarenia vysokých energií, ktoré vedú na vzbudené stavy vnorených rotačných pásov. Tieto prechody nemajú precedens v ostatných nepárnych izotopoch zlata.

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 koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 44625 €

Dosiahnuté výsledky:
V rámci WP1 zameraného na viacčasticovú kvantovú teóriu informácie sme v tomto roku študovali dynamickú robustnosť kvantovej nekompatibilnosti, termodynamický model sociálnej siete a vyvinuli sme algoritmus na verifikáciu neznámych kvantových zariadení s pamäťou. V rámci WP2 sme numericky preskúmali vplyv geometrie pre pentagonálne mriežky a analyzovali sme "znovu sa objavujúce" fázové prechody vo Widom-Rowlinsovom modely. Pri štúdium zložitosti v rámci WP3

sme vymysleli spôsob ako pomocou tzv. poruchových gadgetov simulovať nízkoenergetické podpirestory ľubovoľného k-lokálneho hamiltoniánu s absolútnou chybou ϵ. Ďalej sme v modely kvantových kráčaní skonštruovali hybnostné prepínače, ktoré smerujú častice na základe ich hybností a teda majú priamu aplikáciu (aj motiváciu) pri simuláciach rozptyľových procesov. V systéme C13 nanotrubičiek sme identifikovali topologickú supravodivú fázu, ktorá demonštruje, že topologická supravodivosť s Majoranovskými fermiónami môže byť zrealizovaná aj bez dolaďovania pomocou chemického potenciálu. V rámci WP5 sme nasimulovali implementáciu ďalkodosahového previazania v systéme supravodivých qubitov reprezentujúcich spinovú retiazku. Experimentálne sme študovali konečnosť doby života kvázičastíc v systéme neusporiadaných supravodičov a dvojfotónový "lasing" pomocou supravodivého qubitu.

V rámci tohoto projektu sme v roku 2015 publikovali 12 CC článkov.

26.) Výskum štruktúry hadrónov a previerka Štandardného modelu presnejším vyhodnotením bežiacej 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: 24952 €

Dosiahnuté výsledky:
Pokračovali sme v druhej etape riešenie projektu s dosiahnutými výsledkami:

Vo vypracovanej explicitnej forme piónového skalárneho formfaktora bola nepresná experimentálna informácia na S-vlnu izoskalárneho fázového posunu pi-pi rozptylu v elastickej oblasti nahradená teoretickými výsledkami generovanými Garcia-Martin-Kaminski-Pelaez-Yndurain-Roy rovnicami s výstupom nových hodnôt pre parametre skalárneho mezónu f0(500).

Vybudovaním modelu prechodových formfaktorov pseudoskalárnych mezónov bolo dosiahnuté zníženie celkovej chyby pri určení hodnoty anomálneho magnetického momentu miónu a pri vyčíslení hadrónového vkladu do bežiacej konštanty jemnej štruktúry v QED alpha(s).

Bola rozpracovaná schéma popisu elektromagnetických vlastností všetkých hyperónov 1/2+ oktetu, vychádzajúc z komplexného unitárneho a analytického modelu nukleónov, popisujúceho všetky experimentálne údaje v priestorupodobnej a časupodobnej oblasti simultánne. Schéma umožňuje predpovedanie stredných hodnôt polomerov hyperónov v nadväznosti na novopripravované experimenty v strediskách Mainz, Uppsala a BES-III.

V uplynulom roku bolo publikovaných 12 publikácií, z toho 2 v CC časopisoch, ostatné v zborníkoch medzinárodných konferencií.

27.) 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: 15233 €

Dosiahnuté výsledky:
Projekt je riešený v spolupráci s pracovníkmi Ústavu polymérov SAV. Je rozpracovávaná technológia prípravy a funkcionalizácie nanočastíc Fe2O3 so surfaktantmi pre dosahovanie rôznych medzičasticových vzdialeností v nanočasticovej vrstve. Vo výstavbe je testovacie zariadenie pre detekciu stopových koncentrácii acetónových pár v vzduchu s dôrazom na rýchlu reguláciu stopových koncentrácii v detegovanej zmesi.

28.) Kryštálové prvky rtg optiky pre kompresiu a expanziu zväzku *(Crystal elements of X-ray optics for beam compression and expansion)*

Zodpovedný riešiteľ:	Matej Jergel
Trvanie projektu:	1.7.2012 / 31.12.2015
Evidenčné číslo projektu:	APVV-308-11
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 36139 €

Dosiahnuté výsledky:
Pokračovali sme vo vývoji opracovania aktívnych povrchov prvkov difrakčnej rtg optiky metódami "single point diamond turning" (SPDT) a "fly cutting" (FC) s cieľom minimalizovať podpovrchové poškodenie kryštálovej mriežky (testované Ramanovou mikroskopiou) pri minimálnej lokálnej drsnosti (testované pomocou AFM) a dobrej planarite povrchu (testované hrotovou profilometriou). Optimalizovali sme parametre opracovania (rýchlosť posuvu rezného nástroja veľkosť úberu, otáčky) v závislosti od typu materiálu (Ge, Cu) a parametre finalizácie povrchov metódou chemomechanického leštenia ako aj iónového leštenia, ktorá poskytla extrémne nízku lokálnu drsnosť na úrovni 0.2 nm.

Osobitne sme analyzovali pomocou vysokorozlišovacej transmisnej elektrónovej mikroskopie na vzorkách pripravených technikou "focused ion beam" podpovrchovú štruktúru monokryštálu germánia opracovaného metódou FC. Bola zistená amorfná vrstva hrúbky 30nm, pod ktorou sa nenachádzali žiadne dislokácie. Tento výsledok spolu s minimálnou lokálnou drsnosťou predurčuje túto technológiu používanú doteraz len pre lasery aj pre prípravu rtg difrakčnej optiky s podstatne náročnejšími požiadavkami.

Boli navrhnuté a pripravené V-kanálikové rtg monochromátory Ge(220) pre žiarenie GaKalfa s kompresným pomerom 5 resp. 20 pre vysoké rozlíšenie v reciprokom resp. priamom priestore. Testy boli vykonané na zariadení Nanostar s Ga kvapalnou anódou. Boli demonštrované výhody kompresie rtg zväzku v spojení s paralelným kanálikovým monochromátorom v kvazidisperznom usporiadaní z hľadiska kvality primárneho zväzku pri kompresnom faktore 5. Testy monochromátora s faktorom 20 v expanznom móde na mikroskopickej sieťke ukázali možnosti rtg zobrazovania v svetlom aj tmavom poli s rozlíšením niekoľko mikrometrov, čo je zaujímavé napr. pre štúdium biologických objektov v ich prirodzenom prostredí.

Bolo publikovaných 9 publikácií, z toho 4 v CC časopisoch a 5 v zborníkoch konferencií.

29.) Analýza povrchových a objemových stavov s použitím metód na báze kapacitnej mikroskopie *(Surface and Bulk Defect States Analysis Using Capacitance Microscopy-Based Methods)*

Zodpovedný riešiteľ:	Štefan Lányi
Trvanie projektu:	1.1.2015 / 31.12.2016
Evidenčné číslo projektu:	SK-HU-2013-0031
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 474 €

Dosiahnuté výsledky:
Počas pobytu dr. Dózsu na FÚ sme prediskutovali potrebné ďalšie experimenty, ktoré je žiadúce vykonať. Plánovaný pobyt Ing. Štefana Lányiho na partnerskom pracovisku sa neuskutočnil pre nedostatok času po tom, čo vznikol problém (porucha zariadenia), ktorého odstaňovanie zabralo veľa času a už nebolo možné stihnúť termíny na zorganizovanie vycestovania.

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: 18750 €

Dosiahnuté výsledky:
V prvej fáze projektu sme sa koncentrovali na charakterizáciu povrchoch po SPDT obrábaní pomocou Ramanovej spektroskopie a atomárnej silovej mikroskopie. Na základe našich analýz sme stanovili procesné parametre SPDT obrábania, ktoré vedú k najnižšej povrchovej drsnosti. Ďalej sme navrhli riešenie efektívnej RTG kompresnej zostavy na báze dvoch difraktorov - jedného zväčšujúceho a jedného zmenšujúceho. Navrhovaná zostava má spĺňať podmienku vysokého konečného toku fotónov ako aj moderátneho spektrálneho rozlíšenia.

31.) Úloha defektov v organických polovodičoch pre slnečné články *(Role of defects in organic semiconductors for solar cells)*

Zodpovedný riešiteľ:	Vojtech Nádaždy
Trvanie projektu:	1.7.2012 / 31.12.2015
Evidenčné číslo projektu:	APVV-0096-11
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií:	2 - Slovensko: 2
Čerpané financie:	APVV: 38510 €

Dosiahnuté výsledky:
V záverečnej fáze projektu sme optimalizovali prípravu štandardného organického slnečného článku (OSC) bez vodivej organickej medzivrstvy PEDOT:PSS, ktorá je zdrojom degradácie OSC. Sútredili sme sa vyšetrovanie degradácie OSC na báze zmesi P3HT:PCBM pri rôznych podmienkach, hlavne na degradáciu enkapsuovaných OSC, degradáciu OSC na vzduchu v tme a pri osvetlení bielym svetlom a degradáciu vo vlhkej atmosfére. Degradačné procesy boli sledované prostredníctvom merania základných elektrických parametrov OSC a ich korelácie s koncentráciou hlbokých hladín, ktoré boli detegované nábojovou metódou DLTS. Taktiež bola pri týchto experimentoch využitá optická spektroskopia v oblasti UV-VIS. Po analýze experimentálnych dát boli tieto výsledky spracované vo forme publikácií. Potenciál metódy ER-EIS vyvinutej v rámci tohto projektu na určovanie elektrónovej štruktúry organických materiálov bol testovaný na prototypickom polyméri PMPSi ako aj pri vyšetrovaní hustoty stavov intenzívne používaného polyméru P3HT a zmien hustoty vplyvom chemických defektov. Kombináciou metódy ER-EIS a štruktúrnej metódy GIWAXS sme získali nové poznatky o vplyve štruktúrnych defektov na elektónovú štruktúru polyméru P3HT.

Výsledky projektu boli pripravené do 6 publikácií, z toho 4 boli už publikované alebo v blízkej dobe budú a 2 boli zaslané do časopisov.

32.) Silno interagujúca hmota v extrémnych podmienkach *(Strongly Interacting Matter under Extreme Conditions)*

Zodpovedný riešiteľ:	Štefan Olejník
Trvanie projektu:	1.7.2012 / 31.12.2015
Evidenčné číslo projektu:	APVV-0050-11
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií:	2 - Slovensko: 2
Čerpané financie:	APVV: 5371 €

Dosiahnuté výsledky:
Projekt je riešený v spolupráci s pracovníkmi Univerzity Mateja Bela v Banskej Bystrici a Ústavu experimentálnej fyziky SAV v Košiciach. Vo FÚ SAV sme sa naďalej venovali skúmaniu približného tvaru vlnového funkcionálu vákua Yangovej-Millsovej teórie s kalibračnou grupou SU(2) v numerických simuláciách na mriežke. Výsledky boli uverejnené v jednom článku v časopise Journal of Physics: Conference Series a v pozvanej prednáške na konferencii 4th Winter Workshop on Non-Perturbative Quantum Field Theory v Sophii Antipolis (Franc.).

33.) 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 / 30.6.2015
Evidenčné číslo projektu:	APVV-14-0120
Organizácia je koordinátorom projektu:	nie
Koordinátor:	
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 5732 €

<u>*Dosiahnuté výsledky:*</u>
V uvedenom období sme rozvinuli prípravu grafén oxid flakov s rozmerom pod 300nm pomocou centrifugácie a následného vysoko-rýchlostného mixovania. Výsledný grafénovy produkt spĺňa základné požiadavky ohľadom veľkosti pre transport cez bunkovú membránu. Nanočastice grafén oxidu boli charakterizované pomocou atomárnej silovej mikroskopie a Ramanovej spektroskopie.

34.) Výskum nových pasivačných procesov štruktúr na báze kremíka *(Research of New Passivation Processes of Si-based Structures)*

Zodpovedný riešiteľ:	Emil Pinčík
Trvanie projektu:	1.7.2012 / 30.6.2015
Evidenčné číslo projektu:	APVV-0888-11
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií:	1 - Nemecko: 0, Japonsko: 1
Čerpané financie:	APVV: 29734 €

<u>*Dosiahnuté výsledky:*</u>
V priebehu záverečného polroka projektu bol výskum zameraný na optimalizáciu prác na základnom type slnečného článku s tzv. čiernym Si a na morfologické a optické vlastnosti jednoduchých štruktúr čierneho Si pripravovaného na kryštalickom a aj polykryštalickom Si substráte. Bolo preukázané, že slnečné články s čiernym c-Si môžu dosahovať konverznú účinnosť 19% pričom nie je potrebné nanášať na jeho povrch žiadnu dodatočnú antireflexnú vrstvu.

V rámci projektu bolo publikovaných 6 publikácií.

35.) Ekonomická príprava práškového hydridu horčíka z roztaveného horčíka *(Efficent 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:	
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 17000 €

Dosiahnuté výsledky:
Pripravili sme predbežné analýzy postupov pre modelovanie makro a mikroštruktúry zliatiny na báze horčíka s cieľom maximalizovať voľný objem na uskladňovanie vodíka. Preštudovali sme viaceré módy potenciálnych mechanizmov na vytvorenie difúznych ciest pre vodík v čistom horčíku a pre jeho záchyt v mikroštruktúre. Rozpracovali sme návrhy viacerých možností adaptácie technologického zariadenia na prípravu rýchlo stuhnutých vzoriek čistého horčíka a jeho perspektívnych zliatin.

36.) NANOTIP: SPM procesy indukované hrotom: zobrazovanie a nanomanipulácia
(NANOTIP: Tip-induced SPM processes: Imaging and nanomanipulation)

Zodpovedný riešiteľ:	Ivan Štich
Trvanie projektu:	1.7.2012 / 31.12.2015
Evidenčné číslo projektu:	APVV-0207-11
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 63212 €

Dosiahnuté výsledky:
Zaoberali sme sa studiom atomárnej štruktúry povrchu $Al2O3$ (alumina) založenej na modelovaní NC-AFM obrazov tohoto technologicky mimoriadne dôležitého systému. Potrvdili sme chemicke zlozenie elementarnej bunky rozhrania $Al2O3$/AlNi vobec prvym identifikovanim vsetkych rozne koordinovanych Al atomov a studovali sme akym sposobom ovplyvnuje nesumeratelnost tohto rozhrania obrazy ziskane NC-AFM. Dalej sme studovali NC-AFM manipulaciu atomov cobaltu na zoxidovanych medenych povrchoch s dorazom na popis dlhodosahovych Friedelovych oscilacii medzi jednotlivych atomami cobaltu. Nami navrhovany model umoznuje vytvorenie friedelovych spinovych pasci cielenou manipulaciou okolitych atomov kobaltu.

37.) Nanokryštalické a kvázikryštalické kovové systémy s cielene modifikovanou štruktúrou a morfológiou *(Nanocrystalline and quasicrystalline metallic systems with tailored structure and morphology)*

Zodpovedný riešiteľ:	Peter Švec
Trvanie projektu:	1.7.2012 / 31.12.2015
Evidenčné číslo projektu:	APVV-0492-11
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 43138 €

Dosiahnuté výsledky:
Preskúmali sme atómovú štrukúru, chemickú reaktivitu a neobyčajné katalytické vlastnosti povrchov intermetalických zliatin. Objasnili sme o.i. reakčný mechanizmus katalytickej selektivity pri reakcii metanolu s vodou, ktorá sa využíva na produkciu vodíka pre palivové články, na povrchoch troch izoštruktúrnych zliatin NiZn, PdZn a PtZn. Reakcia methanolu s vodou tzv. methanol steam reforming reakcia (MSR) umožňuje získať až 6 atómov vodíka na jednu molekulu CO2 (má teda vysoký pomer H/C=6). Ako možný katalyzátor pre MSR reakciu boli testované desiatky rôznych kovových zliatin. Ukázali sme, že kľúčovým problémom popri teplotnej stabilte katalyzátora je jeho selektivita. Prevažná väčšina zliatin produkuje pri MSR reakcii popri CO2 aj neprijateľný CO. Napríklad povrch Pd(111) je výborný dehydrogenačný katalyzátor, avšak produkuje okrem H2 takmer výlučne CO miesto CO2. Naopak, napr. povrch zliatiny PdZn má požadovanú CO2 selektivitu (J. of Catalysis). V našich prácach, kde sme sa venovali atómovej štruktúre povrchov intermetalických zliatin, ich chemickej reaktivite a katalytickým vlastnostiam (ChemCatChem, Phys. Rev B), sme objasnili mechanizmus selektivity MSR a navrhli sme spôsoby jej optimalizácie.

38.) Progresívne nanokryštalické a amorfné materiály pre aplikáciu vo vybraných špičkových zariadeniach výkonovej elektroniky *(Progressive nanocrystalline and amorphous materials for application in selected high-power electronic devices.)*

Zodpovedný riešiteľ:	Peter Švec
Trvanie projektu:	1.10.2013 / 31.7.2016
Evidenčné číslo projektu:	APVV-0460-12
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Elektrotechnický výskumný a projektový ústav a.s.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 26640 €

Dosiahnuté výsledky:
Pripravili sme sériu kompozične optimalizovaných amorfných pások systému Fe-Si-B-C-Cu. Na základe detailnej kinetickej, štruktúrnej a magnetickej charakterizácie sme stanovili oblasť transformácií vhodnú na vytvorenie nanokryštalických materiálov s nízkou koercivitou a zvýšenou hodnotou magnetizácie v nasýtení. Podobným spôsobom sme v systéme Fe-Co-B-Si-P (tzv. NANOMET) pri zachovaní nízkej koercivity dosiahli hodnoty magnetizácie v nasýtení do 1.7 T. Navrhli a preskúmali sme systém rýchlochladených Fe-Sn-B s čiastočnou substitúciou Co za Fe a s rôznymi obsahmi metaloidu a cínu. Systém Fe-Co-Sn-B sa opäť podarilo spracovať do nanokryštalického stavu stabilného v širšej časovo-teplotnej oblasti a vykazujúceho vynikajúce magneticky mäkké vlastnosti.
V systéme klasických zlatin typu Finemet (Fe-Cu-Nb-Si-B) s nízkym obsahom Si a substitúciou malého množstva P za B sme ukázali na príčiny tvaru hysteréznej sľučky a veľkosť strát pri premagnetizácii v korelácii s magnetickou anizotropiou, doménovou štruktúrou a magnetoelastickými interakciami povrchov tenkých pások.

39.) Štúdium kryštálovej štruktúry a termodynamických vlastností komplexných kovových zliatin na báze hliníka respektíve zinku *(Study of crystal structure and thermodynamic properties of aluminum-base and zinc-base complex metallic alloys)*

Zodpovedný riešiteľ:	Peter Švec
Trvanie projektu:	1.7.2012 / 31.12.2015

Evidenčné číslo projektu:	APVV-0076-11
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Materiálovotechnologická fakulta STU v Trnave
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 27860 €

Dosiahnuté výsledky:
V spolupráci s hlavným riešiteľom projektu, MTF STU, sme pripravili sériu vzoriek binárnych a ternárnych systémov Al-Co, Al-Mn-Fe, Al-Si-Fe a Zn-Mg-Y, pomocou ktorých boli spresnené fázové diagramy vo vybraných kompozičných oblastiach v okolí zložení s predpokladanou existenciou komplexných fáz (JALLCOM, Mat. Res.). Boli stanovené ich fázové zloženia, stabilita a vo vybraných prípadoch aj ich lokálne atomárne usporiadanie a usporiadanie na strednú vzdialenosť vo forme vhodných neperiodických dláždení. Fázónový priestor a špecifické typy dláždení sme preskúmali aj na kvázikryštalickej zliatine na báze Mn (Phil. Mag.) a na tenkých vrstvách Ba-Ti-O (Phys. Rev. B). V multikomponentnej zliatine na báze Al-Mg obsahujúcej nanočastice TiO2 sme o. i. metodicky aplikovali analýzu elektrónových difrakčných obrazcov z nanorozmerných útvarov na popis ultrajemnej mechanicky spevňujúcej mikroštruktúry vznikajúcej počas tzv. friction-stirr processing (Mat Sci. Engn. A).

40.) Energia symetrie v štruktúre jadrovej hmoty *(Energy of Symetry in Structure of Nuclear Matter)*

Zodpovedný riešiteľ:	Martin Venhart
Trvanie projektu:	1.7.2012 / 31.12.2015
Evidenčné číslo projektu:	APVV-0177-11
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 53330 €

Dosiahnuté výsledky:
Bola ukončená analýza experimentu JR115 a identifikované neočakávané deformačné zmeny v neutrónovo-deficitných izotopoch ortuti. V rámci analýzy experimentu S17 boli identifikované nové trojkvázičasticové izomérické hladiny v izotope 179Au. Boli spustené výpočty jadrových reakcií na báze BUU rovnice za využitia systému s masívnou paralelizáciou úloh. Bol vytvorený kód na analýzu dáz zo zariadenia Pixie-16, ktoré bolo využité pri zbere dát z experimentu PR235 realizovaného v roku 2015 v iThemba Labs v Južnej Afrike.

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

Zodpovedný riešiteľ:	Mário Ziman
Trvanie projektu:	1.7.2015 / 28.6.2019
Evidenčné číslo projektu:	APVV-14-0878
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií:	0

Čerpané financie:	APVV: 15894 €

<u>*Dosiahnuté výsledky:*</u>
Projekt je vo svojej počiatočnej fáze, v ktorej prebiehla detailná analýza výskumných tém, špecifikovali sa konkrétne úlohy a urobili sme prehľad súvisiacej literatúry. Máme prvé výsledky v rámci kvantových kráčaní, prvé výsledky plánovaných simulácií a aj optimalizácie nekompatibilných kvantových sietí (kvantových hrebeňov). Žiadne výsledky ešte neboli opublikované.

Programy: Štrukturálne fondy EÚ Výskum a vývoj

42.) Priemyselné výskumné centrum bezpečnostných rizík havárií so stratou chladiva v jadrových elektrárňach

Zodpovedný riešiteľ:	Štefan Gmuca
Trvanie projektu:	1.2.2011 / 31.1.2015
Evidenčné číslo projektu:	ITMS 26220220147
Organizácia je koordinátorom projektu:	nie
Koordinátor:	VÚEZ a.s. Levice
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	ASFEU: 152309 €

<u>*Dosiahnuté výsledky:*</u>
V rámci projektu boli vykonané analýzy vzoriek vlákno-sklenenej izolácie po korózii v médiach roztokov chladiva v jadrových elektrárňach. Na analýzu chemických efektrov boli použité viaceré metódy vrátane XRF. Stery boli analyzované IBS. Výsledky analýz boli použité na formuláciu kinetického a termodynamického modelu pre statické a prietokové hydrotermálne režimy na základe zloženia kvapaliny po lúhovacích testoch.

43.) Dobudovanie infraštruktúry FÚ SAV v oblastiach výskumu a diagnostiky nanočastíc, nanomateriálov a materiálov s využitím metód jadrovej fyziky *(Completion of Infrastructure of IOP SAS in Research and Diagnostics of nanoparticles, nanomaterials and materials using Methods of Nuclear Physics)*

Zodpovedný riešiteľ:	Stanislav Hlaváč
Trvanie projektu:	1.11.2012 / 31.10.2015
Evidenčné číslo projektu:	ITMS 26210120023
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	ASFEU: 1472894 €

<u>*Dosiahnuté výsledky:*</u>
Bol zaobstaraný urýchľovač tandemového typu Tandetron s terminálovým napätim 2 MV. Urýchľovač umožňuje urýchľovať ľahke ióny - izotopy vodíka p,d na energiu 4 MeV a izotopy hélia na energie 6 MeV. Ďalej je možné urýchľovať ľahké ióny uhlík a kyslík. Urýchlovač je vybavený prepinacim magneto na vysokoenergetickej strane a jednym zvazkovodom pre analýzu materiálov iónovym zvazkom. Celková dispozícia je nevrhnutá a realizovaná tak, aby sa

urýchľovač mohol doplniť o nanosekundovú pulzáciu zväzku, umiestnenú na nízkoenergetickej strane urýchľovača. Urýchľovač je riadený priemyselným počítačovým systémom, ktorý umožňuje riadiť urýchľovač pomocou internetového pripojenia. Súčasťou projektu je aj multimediálne vedecké laboratórium pre 30 účastníkov.

44.) Výskumno-vývojové centrum pre pokročilé rtg technológie *(R&D centre for advanced X-ray technologies)*

Zodpovedný riešiteľ:	Matej Jergel
Trvanie projektu:	1.6.2012 / 30.6.2015
Evidenčné číslo projektu:	ITMS 26220220170
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Integra TDS, s.r.o.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	ASFEU: 14778 €

Dosiahnuté výsledky:
Bolo postavené a otestované zariadenie pre meranie malouhlového rtg rozptylu s mikrofokusačným zdrojom poskytujúcim kolimovaný zväzok a s rýchlym dvojdimenzionálnym detektorom. Na tomto zariadení boli vypracované postupy testovania channel-cut kryštálov ako spätná väzba pre vývoj technológie vo firme Integra TDS s.r.o. (žiadateľ), a to z hľadiska kvality povrchu, návrhu prvku ako aj kvality dvojdimenzionálnej kompresie.

Boli vyvinuté laboratórne metódy malouhlového rtg rozptylu v priestorovo rozlíšenom móde a v časovo rozlíšenom móde využívajúce mikrofokusačný rtg zdroj v spojení s kompresiou zväzku pomocou difrakčnej optiky.

Bola vypracovaná metodológia hodnotenia štruktúrnych parametrov a ich vplyvu na difrakčné vlastnosti rtg optiky a odovzdaná do firmy Integra TDS s.r.o.

45.) Výskumné Centrum svetla a svetelnej techniky *(Research center of light)*

Zodpovedný riešiteľ:	Peter Šiffalovič
Trvanie projektu:	1.1.2012 / 31.10.2015
Evidenčné číslo projektu:	ITMS 26220220150
Organizácia je koordinátorom projektu:	nie
Koordinátor:	OMS, s.r.o.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	ASFEU: 68118 €

Dosiahnuté výsledky:
Výskum a vývoj bol zameraný na tieto tri oblasti:
- zmena spektrálneho zloženia svetla prostredníctvom nanotechnológií,
- termálny management,
- UV degradácia materiálov a štruktúrnej stability.

Nami koncipované LED svietidlo s QO vrstvou má vyššiu kvalitu farebného podania (CRI90). Navrhli sme a zrealizovali HPLED model, ktorý umožňuje premenu stratového tepla na elektr. energiu. Návrh využíva poslednú generáciu tenkovrstvových termoelektr. generátorov (TEG) na priamu konverziu gradientu na vyrobu elektr. energie. Pri štúdiu UV degradácie materiálov sme modifikovali štandardný spektroskopický elipsometer pre in-situ meranie starnutia vzoriek materiálov.

Programy: Štrukturálne fondy EÚ Bratislavský kraj

46.) Kompetenčné centrum pre nové materiály, pokročilé technológie a energetiku
(Competence Centre for New Materials, Advanced Technologies and Energetics)

Zodpovedný riešiteľ:	Vladimír Cambel
Zodpovedný riešiteľ v organizácii SAV:	Eva Majková
Trvanie projektu:	1.8.2011 / 30.11.2015
Evidenčné číslo projektu:	ITMS 26240220073
Organizácia je koordinátorom projektu:	nie
Koordinátor:	
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	ASFEU: 166692 €

Dosiahnuté výsledky:
Hľadanie optimálnej architektúry dvoch druhov elektrochemických nonokompozitných senzorov na báze tenkých filmov - elektrochem. senzor na báze nanočasticových membrán a na báze plazmonických nanočastíc. Využitie plazmonického zosilnenia bolo demonštrované na tenkovrstvých solárnych článkoch na polymérnej zmesi P3HT a PCBM. Ďalej boli realizované semitransparentné solárne články s abláciou 30, 50 a 70 % plochy aktívnej vrstvy.

47.) Centrum aplikovaného výskumu nových materiálov a transferu technológií *(Centre for Applied Research of New Materials and Technology Transfer)*

Zodpovedný riešiteľ:	Pavol Šajgalík
Zodpovedný riešiteľ v organizácii SAV:	Eva Majková
Trvanie projektu:	1.9.2013 / 31.12.2015
Evidenčné číslo projektu:	ITMS 26240220088
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Slovenská akadémia vied
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	ASFEU: 56404 €

Dosiahnuté výsledky:
V tomto roku sme realizovali prve štúdie senzorov plynov na báze dvoj-dimenzionálnych nanomateriálov, medzi ktoré patrí napr. grafén alebo MoS2. Ich veľký špecifický povrch ich predurčuje pre senzorické aplikácie z dôvodu veľkej adsorpčnej plochy. Vrstvy 2D materiálov boli realizované modifikovanou Langmuir-Blodgett depozíciou. Mapovacia Ramanova spektroskopia nám slúžila na charakterizáciu homogenity depozície 2D materiálov. Taktiež boli získané prve výsledky senzitivity na plyny NOx.

48.) Výskumné centrum Allegro *(Research center Allegro)*

Zodpovedný riešiteľ:	Pavol Šajgalík
Zodpovedný riešiteľ v organizácii SAV:	Stanislav Hlaváč
Trvanie projektu:	1.12.2014 / 31.12.2015
Evidenčné číslo projektu:	ITMS 26220220198
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Slovenská akadémia vied
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	ASFEU: 29839 €

Dosiahnuté výsledky:
Na detašovanom pracovisku v Piešťanoch bolo zriadené dtektorové laboratórium zamerané na vývoj a využitie detektorov jadrového žiarenia. Laboratórium bolo vybavené 3 ks HPGe detektormi s vysokým rozlíšením a 3 ks LaBr3 detektormi s pre detekciu gamma žiarenia, plastickým a kvapalným scintilačným detektorom pre detekciu rýchlych neutrónov, dopovaným scintilačným detektorom pre detekciu tepelných neutrónov a polohovocitlivým stripovým Si detektrom pre nabité častice. Laboratórium bolo vybavené aj digitálnou elektronikou Pixie-4 pre zber údajov v systéme PXI Express a rychlym digitálnym osciloskopom so šírkou pásma 2.5GHz pre vývoj elektronických obvodov a synchronizáciu zberu údajov v experimentoch s viacerými rýchlymi detektormi. Laboratórium bolo vybavené aj potrebnými vákuovými komponentami a potrebnými technickými plynmi.

Programy: Centrá excelentnosti SAV

49.) Centrum excelentnosti pre funkcionalizované viacfázové materiály

Zodpovedný riešiteľ:	Marián Krajčí
Trvanie projektu:	1.8.2011 / 31.12.2015
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV: 21143 €

Dosiahnuté výsledky:
V rámci projektu sme sa venovali štúdiu štruktúrne komplexných fáz v kovových zliatinách binárneho alebo ternárneho charakteru. Z binárnych systémov bola pozornosť venovaná Al-Co. Bolo potvrdené, že v koncentračnej oblasti v blízkosti Al13Co4 existuje viacero fáz s vrstevnou štruktúrou, ktorých vzájomné premeny sa môžu uskutočňovať kvázipolytypickou reakciou. Na vybraných zliatinách tohto systému boli študované elektrochemické vlastnosti vo vodnom roztoku NaCl pomocou potenciodynamickej skúšky. Ukázalo sa, že viac ako štruktúrna komplexnosť vplýva na korózne vlastnosti týchto zliatin ich chemická ušľachtilosť [Corr. Sci.]. Bol navrhnutý modifikovaný čiastočný fázový diagram Al-Co [JALLCOM]. V systéme Al-Co-Cu boli študované hlavne štruktúra a vlastnosti dekagonálnehokvázikryštálu. Jedným z hodnotných výstupov bolo navrhnutie čiastočných izotermických rezov fázového diagramu Al-Co-Cu pri teplotách 800°C, 1020°C a 1050°C [JALLCOM]. Pri štúdiu systémov Al-Si s vysokým obsahom Si sme ukázali, že vznik komplexných fáz významným spôsobom zvyšuje rozpustnosť Si v zliatine za prítomnosti

tretieho legujúceho prvku spomedzi Fe, Co, Ni [Mat. Res.]. Vodík sa považuje za perspektívne ekologicky čisté palivo. Jeho praktické využitie však naráža na veľké problémy s uskladnením a prevozom vodíku. Jedným z možných kandidátov pre uskladnenie vodíka je kvapalný methanol a to najmä v zmesi s vodou. Metódami DFT sme sa venovali štúdiu katalytických vlastností povrchov NiZn, PdZn a PtZn [JCATAL] pri reakcii metanolu s vodou. Sústredili sme sa najmä na porozumenie faktorov ovplyvňujúcich žiadanú selektivitu katalyzátorov.

Príloha C
Publikačná činnosť organizácie (*generovaná z ARL*)

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ADEA03 SLÁVIKOVÁ, Barbora - ISKROVÁ, Martina - ILLEKOVÁ, Emília - MAJERNÍK, Viktor - ŠAUŠA, Ondrej - KRIŠTIAK, Jozef - JESENÁK, K. Hexadecane in SiO2 aerogels. In Materials Science Forum, 2013, vol. 733, p. 107-110. (2013 - WOS, SCOPUS). ISSN 0255-5476.
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1. [1.1] GORGOL, M. - JASINSKA, B. - REISFELD, R. - LEVCHENKO, V. The Influence of the Temperature on Positron Annihilation Lifetime Spectra in Porous Sol-Gel Glass Doped with Ag Nanoparticles. In ACTA PHYSICA POLONICA A. ISSN 0587-4246, 2014, vol. 125, no. 3, pp. 778., WOS

ADEA04 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). ISSN 0024-998X.
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ADEA05 TRNOVCOVÁ, Viera - ZAKALYUKIN, R. M. - SOROKIN, N.I. - LEŽAL, D. - FEDOROV, P. P. - ILLEKOVÁ, Emília - ŠKUBLA, A. - KADLEČÍKOVÁ, M. Physical properties of fluoride glasses for ionics. In Materials Science Forum, 2005, vol. 480, p. 299-304. ISSN 0255-5476.
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ADEB Vedecké práce v ostatných zahraničných časopisoch neimpaktovaných

ADEB01 ADAMUŠČIN, Cyril - BARTOŠ, Erik - DUBNIČKA, Stanislav - DUBNIČKOVÁ, A.Z. Advanced nucleon electromagnetic structure model and charge proton rms radius. In Nuclear Physics B - Proceedings Supplements, 2013, vol. 245, p. 69-73. (2013 - WOS, SCOPUS). ISSN 0920-5632.
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ADEB02 HURAN, Jozef - BALALYKIN, N.I. - SHIRKOV, G.D. - BOHÁČEK, Pavol - KOBZEV, A.P. - VALOVIČ, Albín - MALINOVSKÝ, Ľudovít - SEKÁČOVÁ, Mária. Characterization of nanocrystalline diamond/amorphous composite carbon films prepared by PECVD technology. In Physics Procedia, 2012, vol. 32, p. 875-879. (2012 - SCOPUS). ISSN 1875-3892.
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ADEB03 ŠIFFALOVIČ, Peter - VÉGSO, Karol - JERGEL, Matej - MAJKOVÁ, Eva - KECKES, J. - MAIER, G.A. - CORNEJO, M. - ZIBERI, B. - FROST, F. - HASSE, B. - WIESMANN, J. Measurement of nanopatterned surfaces by real and reciprocal space techniques. In Measurement Science Review, 2010, vol. 10, no. 5, p. 153-156. (2010 - WOS, SCOPUS, Copernicus International). ISSN 1335-8871.
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ADEB04 ŠVEC, Peter Jr. - TURČANOVÁ, Jana - JANIČKOVIČ, Dušan - ŠKORVÁNEK, Ivan - ŠVEC, Peter. Interplanar spacings of complex Fe-Ni phases in rapidly quenched Fe-Ni-Nb-B systems. In Journal of Physics: Conference Series, 2009, vol. 144, 012092. (2009 - WOS, SCOPUS). ISSN 1742-6588.
Citácie:
1. [1.1] PAVUK, Milan - SITEK, Jozef - SEDLACKOVA, Katarina. SURFACE PROPERTIES OF A NANOCRYSTALLINE Fe-Ni-Nb-B ALLOY AFTER NEUTRON IRRADIATION. In JOURNAL OF ELECTRICAL ENGINEERING-ELEKTROTECHNICKY CASOPIS. ISSN 1335-3632, 2014, vol. 65, no. 5, pp. 317-319., WOS

ADEB05 ŠVEC, Peter Jr. - ŠVEC, Peter - MAŤKO, Igor - ŠKORVÁNEK, Ivan - KOVÁČ, Jozef - JANIČKOVIČ, Dušan - VLASÁK, Gabriel. Phase Transformations in Amorphous Bilayer Ribbons. In Solid State Phenomena, 2011, vol. 172-174, p. 953-958. (2011 - WOS, SCOPUS). ISSN 1012-0394.
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ADEB06 TURCANOVA, J. - MARCIN, J. - KOVAC, J. - JANIČKOVIČ, Dušan - ŠVEC, Peter - SKORVANEK, I. Magnetic and mechanical properties of nanocrystalline Fe-Ni-Nb-B alloys. In Journal of Physics: Conference Series, 2009, vol. 144, 012065. (2009 - WOS, SCOPUS). ISSN 1742-6588.
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NEUTRON IRRADIATION. In JOURNAL OF ELECTRICAL ENGINEERING-ELEKTROTECHNICKY CASOPIS. ISSN 1335-3632, 2014, vol. 65, no. 5, pp. 317., WOS

ADEB07 TURČANOVÁ, Jana - MARCIN, Jozef - KOVÁČ, Jozef - JANIČKOVIČ, Dušan - ŠVEC, Peter - ŠKORVÁNEK, Ivan. Magnetic and Mechanical Properties of Nanocrystalline Fe-Ni-Nb-B alloys. In Journal of Physics: Conference Series, 2009, vol. 144, art. no. 012065. (2009 - WOS, SCOPUS). ISSN 1742-6588.

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1. [1.1] PAVUK, Milan - SITEK, Jozef - SEDLACKOVA, Katarina. SURFACE PROPERTIES OF A NANOCRYSTALLINE Fe-Ni-Nb-B ALLOY AFTER NEUTRON IRRADIATION. In JOURNAL OF ELECTRICAL ENGINEERING-ELEKTROTECHNICKY CASOPIS. ISSN 1335-3632, 2014, vol. 65, no. 5, pp. 317., WOS

***AEC Vedecké práce v zahraničných recenzovaných vedeckých zborníkoch (aj konferenčných), monografiách**

AEC01 LUKÁČ, F. - CIZEK, J. - PROCHÁZKA, I. - JIRÁSKOVÁ, Y. - JANIČKOVIČ, Dušan - ANWAND, W. - BRAUER, G. Vacancy-induced hardening in Fe-Al alloys. In Journal of Physics: Conference Series, 2013, vol. 443, 012025. (2013 - WOS, SCOPUS). ISSN 1742-6588.

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1. [1.1] HORODEK, P. - DRYZEK, J. - KOBETS, A. G. - KULIK, M. - LOKHMATOV, V. I. - MESHKOV, I. N. - ORLOV, O. S. - PAVLOV, V. - RUDAKOV, A. Yu. - SIDORIN, A. A. - SIEMEK, K. - YAKOVENKO, S. L. Slow Positron Beam Studies of the Stainless Steel Surface Exposed to Sandblasting. In ACTA PHYSICA POLONICA A. ISSN 0587-4246, 2014, vol. 125, no. 3, pp. 714., WOS

AFA Publikované pozvané príspevky na zahraničných vedeckých konferenciách

AFA01 GUPTA, A. - KANE, S.N. - KRAUS, L. - DUHAJ, Pavol. Study of short-range order in amorphous (FECO) (85)B-15 alloys. In Journal of Magnetism and Magnetic Materials, 1995, vol. 140, p.321-322. (1.063 - IF1994). (1995 - Current Contents, SCOPUS). ISSN 0304-8853.

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1. [1.1] KAMALI, S. - ZHA, C. L. - YODA, Y. - AKERMAN, J. Oxidation states and quality of upper interfaces in magnetic tunnel junctions: oxygen effect on crystallization of interfaces. In JOURNAL OF PHYSICS-CONDENSED MATTER. ISSN 0953-8984, 2014, vol. 26, no. 2, 026004., WOS

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AFC01 KAVETSKYY, T. - TSMOTS, V. - ŠAUŠA, Ondrej - STEPANOV, A.L. Structural modification of chalcogenide glasses by gamma-irradiation studied with DBAL technique. In Physica status solidi C. Conference and critical reviews, 2012, vol. 9, p. 2420-2423. (2012 - SCOPUS). ISSN 1610-1634.

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1. [1.1] STRONSKI, A. - NAZAROV, AN - LYSENKO, VS - FLANDRE, D. Positron annihilation lifetime spectroscopy measurement of Ge5As37S58 glass. In FUNCTIONAL NANOMATERIALS AND DEVICES VII. ISSN 1022-6680, 2014, vol. 854, pp. 111., WOS

AFC02 MARKOŠ, Peter. Conductance Statistics near the Anderson Transition. In Anderson Localization and Its Ramifications. Proc. of B. Kramer 60th Birthday Conf., Hamburg, Sept. 4-6, 2002. - Berlin Heidelberg : Springer Verlag, 2003. P. 53-64. ISBN 3-540-40785-5.

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1. [1.1] MARKULA, Pirkko. Embodied Subjectivities: Intersections of Discursive and Critical Psychology With Socio-Cultural Exercise Research. In SOCIOLOGY OF SPORT JOURNAL. ISSN 0741-1235, 2014, vol. 31, no. 2, pp. 139-161., WOS

AFC03 WIDOM, M. - MIHALKOVIČ, Marek. Relative stability of alpha and beta boron. In Journal of Physics: Conference Series, 2009, vol. 176, 012024. (2009 - WOS, SCOPUS). ISSN 1742-6588.

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1. [1.1] COLINET, Catherine - TEDENAC, Jean-Claude. Enthalpies of Formation and Electronic Densities of States of Vanadium Borides. In JOURNAL OF PHASE EQUILIBRIA AND DIFFUSION. ISSN 1547-7037, 2014, vol. 35, no. 4, pp. 396., WOS

Príloha D

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

Ing. Matej Jergel, DrSc.
Názov semestr. predmetu: Nanotechnológie
Počet hodín za semester: 2
Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, Ústav jadrového a fyzikálneho inžinierstva

Prof.,Ing. Štefan Luby, DrSc.
Názov semestr. predmetu: O elektronike a informatike
Počet hodín za semester: 4
Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Univerzita tretieho veku

Doc. RNDr. Martin Plesch, PhD.
Názov semestr. predmetu: Kaventová teória informácie
Počet hodín za semester: 26
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, FMFI

Doc. RNDr. Martin Plesch, PhD.
Názov semestr. predmetu: Základe kvantovej teórie informácie
Počet hodín za semester: 26
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, FMFI

Dr.Rer.Nat. Peter Šiffalovič, PhD.
Názov semestr. predmetu: Analýza povrchov a tenkých vrstiev pomocou elektromagnetického žiarenia
Počet hodín za semester: 24
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra Experimentálnej fyziky

Dr.Rer.Nat. Peter Šiffalovič, PhD.
Názov semestr. predmetu: Fyzika ultrakrátkych impulzov
Počet hodín za semester: 24
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra experimentálnej fyziky

Doc. Mgr. Mário Ziman, PhD
Názov semestr. predmetu: Vybrane kapitoly z kvantovej mechaniky pre informatikov
Počet hodín za semester: 26
Názov katedry a vysokej školy: Masarykova univerzita Brno, ČR, Fakulta Informatiky

Doc. Mgr. Mário Ziman, PhD
Názov semestr. predmetu: Vybrané kapitoly z kvantovej teórie informácie
Počet hodín za semester: 39
Názov katedry a vysokej školy: Fakulta matematiky, fyziky a informatiky UK, Katedra teoretickej fyziky

Semestrálne cvičenia:

Mgr. Michal Sedlák, PhD.
Názov semestr. predmetu: Koherenční a statistická optika
Počet hodín za semester: 13
Názov katedry a vysokej školy: Přírodovědecká fakulta Palackého univerzity, Olomouc, Česká republika, Katedra optiky

Mgr. Michal Sedlák, PhD.
Názov semestr. predmetu: Rovnice matematické fyziky
Počet hodín za semester: 13
Názov katedry a vysokej školy: Přírodovědecká fakulta Palackého univerzity, Olomouc, Česká republika, Katedra optiky

Ing. Peter Švec, DrSc.
Názov semestr. predmetu: Elektrofyzikálne inžinierstvo
Počet hodín za semester: 8
Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, Ústav jadrového a fyzikálneho inžinierstva

Ing. Peter Švec, DrSc.
Názov semestr. predmetu: Vodiče a polovodiče
Počet hodín za semester: 4
Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, Ústav jadrového a fyzikálneho inžinierstva

Semináre:

Mgr. Michal Sedlák, PhD.
Názov semestr. predmetu: Kvantová komunikace a zpracování informace 1
Počet hodín za semester: 13
Názov katedry a vysokej školy: Přírodovědecká fakulta Palackého univerzity, Olomouc, Česká republika, Katedra optiky

Terénne cvičenia:

Individuálne prednášky:

Ing. Peter Švec, DrSc.
Názov semestr. predmetu: Rapidly Quenched Materials and Devitrification Processes
Počet hodín za semester: 4
Názov katedry a vysokej školy: Materiálovotechnologická fakulta STU v Trnave, Inštitút fyziky

Príloha E

Medzinárodná mobilita organizácie

(A) Vyslanie vedeckých pracovníkov do zahraničia na základe dohôd:

Krajina	D r u h d o h o d y					
	MAD, KD, VTS		Medziústavná		Ostatné	
	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní
Bahamy					Vladimír Bužek	6
Belgicko	Štefan Luby	2			Vladimír Bužek	6
	Štefan Luby	2			Vladimír Bužek	5
	Štefan Luby	2			Vladimír Bužek	4
					Vladimír Bužek	5
					Vladimír Bužek	2
					Vladimír Bužek	6
					Vladimír Bužek	2
					Vladimír Bužek	3
					Peter Švec	2
					Peter Švec	2
					Mário Ziman	2
Bielorusko					Stanislav Dubnička	7
Brazília					Ivan Štich	8
Česko					Monika Benkovičová	4
					Peter Filip	30
					Peter Filip	64
					Peter Filip	4
					Matej Jergel	1
					Igor Maťko	2
					Emil Pinčík	1
					Emil Pinčík	1
					Manharbai Prajapati	2
					Daniel Reitzner	2
					Mário Ziman	2
					Mário Ziman	2
Dánsko					Daniel Nagaj	3
					Karol Végsö	7
Fínsko					Jozef Klimo	5
					Manharbai Prajapati	5
					Róbert Urban	5
					Martin Venhart	5
Francúzsko	Ladislav Šamaj	53			Vladimír Bužek	1
	Ladislav Šamaj	59			Jozef Klimo	9
					Eva Majková	2
					Marek Mihalkovič	15
					Marek Mihalkovič	19
					Marek Mihalkovič	11
					Marek Mihalkovič	4
					Marek Mihalkovič	45
					Marek Mihalkovič	19
					Kristian Petrík	40
					Peter Švec	2
					Róbert Urban	9
					Martin Veselský	3
Grécko					Peter Švec	4

					Peter Švec, Jr.	4
					Martin Veselský	5
					Martin Veselský	4
Japonsko					René Derian	7
					Andrej Gendiar	16
					Jozef Genzor	16
					Marek Mihalkovič	2
					Daniel Nagaj	9
					Emil Pinčík	31
Kanada					Daniel Nagaj	5
					Daniel Nagaj	5
					Juraj Zigo	3
Maďarsko	Emil Běták	6				
Nemecko	Stanislav Hlaváč	5			René Derian	5
	Stanislav Hlaváč	4			Martin Hodas	27
					Martin Hodas	46
					Matej Jergel	2
					Daniel Nagaj	3
					Daniel Nagaj	3
					Daniel Reitzner	6
					Karol Végsö	4
Poľsko	Beata Butvinová	5			Vladimír Bužek	2
					Andrej Gendiar	5
					Martin Venhart	5
Rakúsko	Yuriy Halahovets	1			Vladimír Bužek	1
	Matej Jergel	1			Andrej Gendiar	2
	Štefan Luby	2			Andrej Gendiar	1
	Igor Maťko	13			Marián Krajčí	1
	Igor Maťko	7			Marián Krajčí	1
	Igor Maťko	7			Štefan Luby	2
	Igor Maťko	4			Igor Maťko	7
	Peter Šiffalovič	1			Daniel Nagaj	1
					Daniel Nagaj	1
					Ladislav Šamaj	1
					Peter Švec	1
Rusko					Stanislav Dubnička	5
					Štefan Gmuca	7
					Jozef Klimo	10
					Andrej Liptaj	61
					Vladislav Matoušek	20
					Miroslav Nagy	14
					Michal Sedlák	20
					Ivan Turzo	20
					Róbert Urban	10
Španielsko					Andrej Gendiar	3
					Irena Janotová	3
					Peter Švec	3
					Peter Švec, Jr.	3
Švajčiarsko					Cyril Adamuščín	7
					Erik Bartoš	12
					Stanislav Dubnička	15
					Andrej Liptaj	8
					Martin Venhart	1
					Martin Venhart	4
					Martin Venhart	3

					Martin Venhart	5
					Martin Venhart	4
					Martin Veselský	5
					Martin Veselský	5
					Martin Veselský	4
Taliansko	Štefan Luby	7			Maksym Demydenko	30
					Peter Švec	4
					Peter Švec, Jr.	4
Thajsko					Martin Plesch	9
USA					Vladimír Bužek	9
					Vladimír Bužek	8
					Vladimír Bužek	14
					Vladimír Bužek	6
					Peter Filip	35
					Marek Mihalkovič	13
					Marek Mihalkovič	14
					Daniel Nagaj	14
					Ivan Štich	4
					Martin Venhart	6
Veľká Británia					Vladimír Bužek	3
					Vladimír Bužek	1
					Vladimír Bužek	3
					Martin Venhart	5
Počet vyslaní spolu	**18**	**181**			**123**	**1056**

(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					doc. Mgr. Jaromír Fiurášek, Ph.D.	3
Francúzsko					Alex Bredariol Grilo	5
Irán					Dr. Seyed Mohsen Hosseini Nejad	1
					Karimipour Vahid	4
Japonsko					Prof. An Pang Tsai	6
Maďarsko					László Dózsa	7
Mexiko					Carlos Pineda	10
					David Davalos	29
Nemecko					Tobias Frank	13
Poľsko					Dr. Jacek Salach	6
					Mgr. Dorota Jackiewicz	6
					Mgr. Michal Nowicki	6
					Prof. Roman Szewczyk	6
					Prof., Robert Kamiňski	5
					Przemysław Sadowski	5
Rakúsko					Prof. Manfried Faber	1
Rusko					Alexander Holevo	5
					Dr. Sergey Filippov	15
Taiwan					Ching Shonku	5
Ukrajina					Dr. Oleg Borisenko	15
Počet prijatí spolu					**20**	**153**

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

Krajina	Názov konferencie	Meno pracovníka	Počet dní
Austrália	QIP 2015	Daniel Nagaj	10
Brazília	ISPM 2015	Ivan Štich	8
Česko	Aperiodic 2015	Marek Mihalkovič	6
	CEQIP 2015	Daniel Reitzner	4
		Michal Sedlák	4
		Mário Ziman	4
	COST MP1203	Martin Hodas	3
	Český workshop o složitých systémech II	Ladislav Šamaj	4
	NanoOstrava 2015	Peter Švec	3
	NZEE 2015	Róbert Brunner	3
		Emil Pinčík	3
	Seminár o metodách blízkého pole	Štefan Lányi	3
	Struktura 2015	Matej Jergel	4
	TAS	Igor Maťko	2
Čína	CUSTIPEN Workshop	Martin Veselský	9
	The 5th Annual World Congress of Nano Science and	Eva Majková	7
Fínsko	QUC 2015	Daniel Reitzner	9
		Tomáš Rybár	9
		Michal Sedlák	9
		Mário Ziman	9
Francúzsko	4th Winter Workshop on Non-Perturbative Quantum Fi	Štefan Olejník	6
	ACTAR TPC meeting 2015	Martin Veselský	4
	CMAC - Days 2015	Marián Krajčí	4
	CMAC Workshop	Marek Mihalkovič	3
	ESOS 2015	Michal Kaiser	10
		Vojtech Nádaždy	7
	GISAS 2015	Martin Hodas	6
	Interdisciplinary workshop	Marek Mihalkovič	2
	ISMANAM 2015	Beata Butvinová	7
		Dušan Janičkovič	7
		Irena Janotová	7
		Igor Maťko	7
		Peter Švec	6
		Juraj Zigo	7
	Stable Next Sol Action	Karol Végsö	4
	The NC-AFM 2015	Ivan Štich	6
		Robert Turanský	7
Grécko	12. International Conference	Štefan Luby	6
	IC-MAST 2015	Ján Ivančo	5
Holandsko	X-Ray Metrology Workshop	Martin Hodas	4
		Marco Pelletta	4
Chorvátsko	22. medzinárodná konferencia	Štefan Luby	4
	ECM 29	Matej Jergel	5
India	ICAMPE 2015	Matej Jergel	6
Japonsko	The 76th JSAP	Ivan Štich	7

	Workshop "Strongly correlated electron systems"	Marek Mihalkovič	5
Kanada	CCM Summer School	Juraj Zigo	7
Kórejská republika	AQIS 2015	Daniel Nagaj	8
Maďarsko	MCM 2015	Igor Maťko	6
		Peter Švec, Jr.	6
	NewCompStar 2015	Kristian Petrík	6
	Sympózium k 100-ročnici	Štefan Luby	2
Mexiko	AQM 2015	Mário Ziman	14
Nemecko	6th European Nanomanipulation Workshop	Ivan Štich	5
	DAC	Štefan Luby	3
	SAS 2015	Peter Šiffalovič	8
		Karol Végsö	8
Poľsko	Conference R-MRS	Marco Pelletta	7
	NUSYM15	Martin Veselský	5
Rakúsko	11th Vienna Central European Seminar	Juraj Boháčik	2
		Peter Filip	2
	11th Vienna Central European Seminar	Miroslav Nagy	2
	EPS-HEP´2015	Cyril Adamuščín	8
		Erik Bartoš	8
		Stanislav Dubnička	8
		Peter Filip	7
		Andrej Liptaj	8
	NESY-Winterschool 2015	Marco Pelletta	5
	VCES 2015	Andrej Gendiar	2
		Roman Krčmár	2
Rumunsko	Konferencia ROCAM 2015	Michal Kaiser	2
	Medzinárodná letná škola SMEC 2015	Michal Kaiser	5
Rusko	NSRT 2015	Štefan Gmuca	6
	NSRT2015	Štefan Luby	13
	SQM 2015	Peter Filip	9
Španielsko	CQI 2015	Daniel Nagaj	19
	Graphene conference 2015	Peter Šiffalovič	5
Švédsko	2nd TEM Spectroscopy Workshop in Materials Science	Juraj Zigo	6
Taliansko	14th International Conference	Emil Běták	7
	37. International School	Stanislav Dubnička	11
	ICTP-IAEA School	Manharbai Prajapati	14
	International School of Nucear Physics 37th Course	Erik Bartoš	11
		Andrej Liptaj	11
	SURFINT-SREN IV	Róbert Brunner	6
		Emil Pinčík	6
Turecko	Graphene Workshop 2015	Peter Šiffalovič	5
Ukrajina	NAP - 2015	Matej Jergel	5
USA	March Meeting	Ivan Štich	10
	PACIFICHEM	Ivan Štich	8
	QCD Chirality workshop	Peter Filip	3
	SPIE 2015	Martin Hodas	9
	Workshop WWND	Peter Filip	8

Veľká Británia	QIPC 2015	Mário Ziman	3
Spolu	**69**	**93**	**580**

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

Skratky použité v tabuľke C:

11th Vienna Central European Seminar - 11th Vienna Central European Seminar on Particle Physics and Quantum Fields Theory Quantum and Gravity
12. International Conference - 12. International Conference Nanoscience and Nanotechnology
14th International Conference - 14th International Conference on Nuclear Reaction Mechanisms
22. medzinárodná konferencia - 22. medzinárodná konferencia: Spoločnosť a technológie
2nd TEM Spectroscopy Workshop in Materials Science - 2nd TEM Spectroscopy Workshop in Materials Science
37. International School - 37. International School of Nuclear Physics: Probing hadron structure with lepton and hadron beams
4th Winter Workshop on Non-Perturbative Quantum Fi - 4th Winter Workshop on Non-Perturbative Quantum Field Theory
6th European Nanomanipulation Workshop - 6th European Nanomanipulation Workshop
ACTAR TPC meeting 2015 - Active Target and Time Projection Chamber
Aperiodic 2015 - Aperiodic 2015
AQIS 2015 - The 15th Conference on AQIS 2015
AQM 2015 - Application of Quantum Mechanics 2015
CCM Summer School - CCM Summer School on Electron Microscopy
CEQIP 2015 - 12th Central European Quantum Information Processing Workshop
CMAC - Days 2015 - CMAC - Days 2015
CMAC Workshop - CMAC Workshop Grenoble
Conference R-MRS - Conference R-MRS - Turials Weekend
COST MP1203 - COST MP1203
CQI 2015 - Conference Quantum Information 2015
CUSTIPEN Workshop - SINAP-CUSTIPEN Workshop on Clusters and Correlations in Nuclei, Nuclear Reactions and Neutron Stars
Český workshop o složitých systémech II - Český workshop o složitých systémech II
DAC - 6.konferencia Dunajských akadémií vied
ECM 29 - 29th European Crystallographic Meeting
EPS-HEP´2015 - European Physical Society Conference on High Energy Physics 2015
ESOS 2015 - European Training School and Conference on Organic Solar Cell Stability
GISAS 2015 - 3rd International GISAS Conference a Satellite meeting of the SAS 2015
Graphene conference 2015 - Graphene conference 2015
Graphene Workshop 2015 - Graphene Workshop 2015
IC-MAST 2015 - 5th International Conference on Materials and Applications for Sensors and Transducers
ICAMPE 2015 - First International Conference on Advanced Materials for power Engineering
ICTP-IAEA School - Joint ICTP-IAEA School on "Nuclear Data Measurements for Science and Applications"
Interdisciplinary workshop - Interdisciplinary workshop on theory and experiments on quasicrystals: Geometry and Dynamics of Quasiperiodic Structures, Paris
International School of Nucear Physics 37th Course - International School of Nucear Physics 37th Course
ISMANAM 2015 - The 22nd International Symposium on Metastable, Amorphous and Nanostructure Materials
ISPM 2015 - International Scanning Probe Microscopy Conference 2015
Konferencia ROCAM 2015 - Konferencia ROCAM 2015
March Meeting - March Meeting
MCM 2015 - 12th Multinational Congress on Microscopy
Medzinárodná letná škola SMEC 2015 - Medzinárodná letná škola SMEC 2015
NanoOstrava 2015 - NanoOstrava 2015
NAP - 2015 - the 5th International Conference Nanomaterials: Applications & Properties - 2015
NESY-Winterschool 2015 - NESY-Winterschool 2015
NewCompStar 2015 - NewCompStar 2015
NSRT 2015 - International Conference on Nuclear Structure and Related Topics
NSRT2015 - Nuclear structure and reactions 2015
NUSYM15 - 5th International Symposium on Nuclear Symmetry Energy
NZEE 2015 - 36. Nekovenční zdroje elektrické energie
PACIFICHEM - The International Chemical Congress of Pacific Basin Societies 2015, Honolulu
QCD Chirality workshop - QCD Chirality workshop

QIP 2015 - The 18th Conference on Quantum Information Processing (QIP2015)
QIPC 2015 - The International Conference on Quantum Information Processing and Communication (QIPC 2015)
QUC 2015 - Quantum UnConference 2015
SAS 2015 - 16th International Conference on Small-Angle Scattering
Seminár o metodách blízkého pole - Seminár o metodách blízkého pole
SPIE 2015 - SPIE Optics + Phkotonics 2015
SQM 2015 - Strange Quark Matter 2015
Stable Next Sol Action - Stable Next Sol Action
Struktura 2015 - Struktura 2015
SURFINT-SREN IV - Progress in Applied Surface, Inteface and Thin Film Science - Solar Renewable Energy News IV
Sympózium k 100-ročnici - Sympózium k nedožitej 100-ročnici zakladateľa výskumu tenkých vrstiev prof. J. Póczu
TAS - Termoanalytický Seminář
The 5th Annual World Congress of Nano Science and - The 5th Annual World Congress of Nano Science and Technology -2015
The 76th JSAP - The International Symposium on Recent Trends in Analysis Techniques for Functional Materials and Devices
The NC-AFM 2015 - 18th International Conference on non contact Atomic Force Microscopy
VCES 2015 - Vienna Central European Seminar 2015
Workshop "Strongly correlated electron systems" - Workshop "Strongly correlated electron systems"
Workshop WWND - 31. Winter Workshop of Nuclear Dynamics
X-Ray Metrology Workshop - X-Ray Metrology Workshop