

Fyzikálny ústav SAV

**Správa o činnosti organizácie SAV
za rok 2009**

Bratislava
január 2010

Obsah osnovy Správy o činnosti organizácie SAV za rok 2009

1. Základné údaje o organizácii
2. Vedecká činnosť
3. Doktorandské štúdium, iná pedagogická činnosť a budovanie ľudských zdrojov pre vedu a techniku
4. Medzinárodná vedecká spolupráca
5. Vedná politika
6. Spolupráca s VŠ a inými subjektmi v oblasti vedy a techniky v SR
7. Spolupráca s aplikačnou a hospodárskou sférou
8. Aktivity pre Národnú radu SR, vládu SR, ústredné orgány štátnej správy SR a iné organizácie
9. Vedecko-organizačné a popularizačné aktivity
10. Činnosť knižnično-informačného pracoviska
11. Aktivity v orgánoch SAV
12. Hospodárenie organizácie
13. Nadácie a fondy pri organizácii SAV
14. Iné významné činnosti organizácie SAV
15. Vyznamenania, ocenenia a ceny udelené pracovníkom organizácie SAV
16. Poskytovanie informácií v súlade so zákonom o slobodnom prístupe k informáciám
17. Problémy a podnety pre činnosť SAV

PRÍLOHY

- A Zoznam zamestnancov a doktorandov organizácie k 31.12.2009*
- B Projekty riešené v organizácii*
- C Publikáčná činnosť organizácie*
- D Údaje o pedagogickej činnosti organizácie*
- E Medzinárodná mobilita organizácie*

Zhrnutie: Záverečná správa ústavov SAV je svojou povahou „suchopárnym“ vymenovaním ich vedecko-výskumných, pedagogických, ekonomických a iných výsledkov. V sumári preto stručne zhrnieme najdôležitejšie dôvody, prečo Fyzikálny ústav dlhodobo patrí medzi najkvalitnejšie ústavy SAV a je kompetitívny aj v kontexte celosvetového výskumného priestoru.

Svoje postavenie Fyzikálny ústav potvrdil opäť v roku 2009, kedy sa v evaluácii zaradil do kategórie A+ spolu s ďalšími tromi ústavmi spomedzi pätnástich ústavov I. Odelenia vied SAV a tým nadviazal na rovnaký výsledok z akreditácie v roku 2007.

Medzi najdôležitejšie kritériá úspešnosti vedeckej činnosti patria publikácie v prestížnych karentovaných časopisoch, ich impakt a citačná odozva, čo je už tradične oblasť v ktorej ústav dosahuje vynikajúce výsledky. Ústav aj v roku 2009 vyprodukoval vyše sedemdesiat publikácií v karentovaných časopisoch s vysokým impakt faktorom, v prevažnej väčšine vyšším ako 2. Pokračoval aj nárast citačných ohlasov, ktorý ročne prevyšuje číslo 1500.

Dôležitou stránkou vedeckého výskumu je získavanie domácich (VEGA, APVV) a zahraničných (6. a 7. RP, INTAS, ESF, atď.) grantov, ako aj zapájanie sa do medzinárodných spoluprác. Štatistiky v tejto správe ukazujú pozitívne trendy aj v tejto oblasti.

Rok 2009 bol rokom, v ktorom sa rozbehli štrukturálne fondy EÚ. Fyzikálny ústav sa zatiaľ ako žiadateľ úspešne zúčastnil výziev v operačnom programe 4.1. „*Podpora sietí excelentných pracovísk výskumu a vývoja ako pilierov rozvoja regiónu v Bratislavskom kraji*“ a v operačnom programe 4.2. *Prenos poznatkov a technológií získaných výskumom a vývojom do praxe v Bratislavskom kraji*. Ako zatiaľ jeden z najúspešnejších ústavov I. Odelenia vied SAV Fyzikálny ústav získal ako žiadateľ tri úspešné projekty v hodnote cca. 4.5 mil € a v piatich bol úspešný ako partner. Ďalšie dva projekty podal FÚ koncom roku 2009 vo výzvach 4.1 a 2.1 a vyhodnotenie ich úspešnosti očakávame v r. 2010.

Rok 2009 bol pre Fyzikálny ústav aj rokom ukončenia jednej z najväčších investičných akcií v posledných rokoch. Podarilo sa nám zrekonštruovať, nadstaviť a skolaudovať jednu z budov ústavu – Pavilón kvantových technológií. V Pavilóne našli dôstojné pracovisko pracovníci troch oddelení FÚ. Na tomto pracovisku sa budujú aj špičkovy vybavené experimentálne laboratória najmä z prostriedkov ŠF EÚ. Do prevádzky sa uviedla aj moderná seminárna miestnosť a miesto pre blokové vzdelávanie študentov doktoranského štúdia, nielen Fyzikálneho ústavu ale aj ďalších ústavov SAV a univerzít. Aj preto je dôležité, že sa nám v roku 2009 podarilo získať štyroch kvalitných nových doktorandov.

Dôležitou je aj popularizačná činnosť ústavu, ktorou sa snažíme preniknúť do médií a pritiahnuť mladú generáciu perspektívnych vedcov. Publikovali sme viacero popularizačných článkov v časopise *Quark*, organizovali *Turnaj mladých fyzikov* na Slovensku, a v rámci *Týždňa vedy* sme na ústave zorganizovali *Deň otvorených dverí*, ktorého sa zúčastnilo viac ako 300 záujemcov o naše pracovisko a fyziku vôbec zo stredných škôl.

Na záver, v ekonomickej oblasti sme absolvovali rok s vyrovnaným rozpočtom. Prispeli k tomu aj viaceré organizačné a systémové opatrenia, ktoré viedli k zjednodušeniu a zefektívneniu riadenia a hospodarenia ústavu

1. Základné údaje o organizácii

1.1. Kontaktné údaje

Názov: Fyzikálny ústav SAV

Riaditeľ: Prof. Ing. Ivan Štich, DrSc.

Zástupca riaditeľa: RNDr. Stanislav Hlaváč, CSc.

Vedecký tajomník: Mgr. Martin Veselský, PhD.

Predseda vedeckej rady: Ing. Vojtech Nádaždy, CSc.

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Názvy a adresy detašovaných pracovísk:

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

Vedúci detašovaných pracovísk:

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

Typ organizácie: Príspevková od roku 1997

1.2. Údaje o zamestnancoch

Tabuľka 1a Počet a štruktúra zamestnancov

Štruktúra zamestnancov	K	K do 35 rokov		K ved. prac.		F	P	T
		M	Ž	M	Ž			
Celkový počet zamestnancov	110	19	4	81	29	103	81,2	76,2
Vedeckí pracovníci	63	8	0	55	8	59	53,15	52,7
Odborní pracovníci VŠ	29	11	4	19	10	27	24,35	20
Odborní pracovníci ÚS	18	0	0	7	11	17	3,7	3,5
Ostatní pracovníci	0	0	0	0	0	0	0	0

K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2009 (uvádzať zamestnancov v pracovnom pomere, vrátane riadnej materskej dovolenky, zamestnancov pôsobiacich v zahraničí, v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zborech)

F – fyzický stav zamestnancov k 31.12.2009 (bez riadnej materskej dovolenky, zamestnancov pôsobiacich v zahraničí v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zborech)

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 31.12.2009)

Rodová skladba	Pracovníci s hodnotou				Vedeckí pracovníci v stupňoch		
	DrSc.	CSc./PhD.	prof.	doc.	I.	IIa.	IIb.
Muži	14	40	4	1	22	20	12
Ženy	4	3	1	0	4	2	1

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

Veková štruktúra (roky)	< 30	31-34	35-39	40-44	45-49	50-54	55-59	60-64	> 65
Muži	13	4	1	2	5	14	6	5	8
Ženy	4	0	0	0	0	2	1	2	2

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2009

	Kmeňoví zamestnanci	Vedeckí pracovníci	Riešitelia projektov
Muži	46,9	51,3	47,7
Ženy	49,0	61,0	47,9
Spolu	47,3	52,5	47,7

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

Rok 2009 bol rokom stabilizácie zmien, ktoré FÚ zrealizoval v r. 2008, t.j. zavedenie nového Organizačného poriadku, redukcie počtu oddelení a zavedenia pravidelného ročného personálneho auditu a auditu oddelení.

Nový organizačný poriadok zvýšil kompetencie vedúcich oddelení a to najmä v personálnej politike oddelení, zoštíhlil Ústavnú radu z 31 na 13 členov a spružnil jej poradné kompetencie. V ekonomickej oblasti zaviedol funkciu manažéra s výkonnými kompetenciami, ktorého úlohou je najmä zefektívnenie ekonomiky ústavu a hľadanie finančných rezerv v chode ústavu.

Výsledky auditu oddelení a personálneho auditu, ktoré prebehli v závere roku 2008 sa premietli do zmenených prac. úväzkov viacerých vedecko-výskumných pracovníkov. Anulovaním paušálnych príplatkov za hodnosti CSc., PhD a DrSc. v r. 2009 zakotvených v Kolektívnej zmluve sme vytvorili predpoklady na priamejšie naviazanie osobných ohodnotení na pracovné výsledky, ktoré zhodnotil každoročný audit oddelení a personálny audit. Na základe auditu oddelení riaditeľ FÚ určuje finančné prostriedky na jednotlivé oddelenia a osobné ohodnotenie vedúcich oddelení, ktorí následne pripravujú návrh na osobné ohodnotenia jednotlivých členov oddelení.

Pokračovalo sa v aplikácii dohôd o statuse pracovníkov v seniorskom veku z r. 2008 a úpravách prac. úväzkov seniorov.

2. Vedecká činnosť

2.1. Domáce projekty

Tabuľka 2a Zoznam domácich projektov riešených v roku 2009

ŠTRUKTÚRA PROJEKTOV	Počet projektov		Čerpané financie za rok 2009 (v €)		
	A	B	A		B
			spolu	pre organi- záciu	
1. Vedecké projekty, ktoré boli r. 2009 financované VEGA	26	0	88698	85703	0
2. Projekty, ktoré boli r. 2009 financované APVV	17	2	510552	401263	18987
3. Projekty OP ŠF	2	3	-	-	-
4. Projekty FM EHP	1	0	54979	54979	-
5. Projekty riešené v rámci ŠPVV	0	0	-	-	-
6. Projekty centier excelentnosti SAV	1	2	39832	39832	4846
7. Vedecko-technické projekty, ktoré boli v roku 2009 financované	1	0	-	-	13000
8. Projekty podporované Európskym sociálnym fondom	0	0	-	-	-
9. Podpora medzinárodnej spolupráce z národných zdrojov (MVTs, APVV,...)	10	0	77274	77274	-
10. Iné projekty (ústavné, na objednávku rezortov a pod.)	1	0	13178	-	-

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

Pozn. : Čerpanie prostriedkov pre projekty ŠF začne v r. 2010

Tabuľka 2b Zoznam domácich projektov podaných v roku 2009

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2009	-		
2. Projekty výziev OP ŠF podané r. 2009	Bratislava	1	2
	Regióny	1	
3. Projekty výziev FM EHP podané r. 2009	-		

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2009

Tabuľka 2c Zoznam medzinárodných projektov riešených v roku 2009

ŠTRUKTÚRA PROJEKTOV	Počet projektov		Čerpané financie za rok 2009 (v €)		
	A	B	A		B
			spolu	pre organizáciu	
1. Projekty 6. rámcového programu EÚ (neuvádzať projekty ukončené pred r. 2009)	1	3	5819	5819	21742
2. Projekty 7. rámcového programu EÚ	1	1	-	-	-
3. Multilaterálne projekty v rámci vedeckých programov COST, INTAS, EUREKA, ESPIRIT, PHARE, NATO, UNESCO, CERN, IAEA, ESF (European Science Foundation) a iné	4	4	55275	55275	19100
4. Projekty v rámci medzivládnych dohôd o vedecko-technickej spolupráci (Grécko, ČR, Nemecko a iné)	2	2	2556	2556	-
5. Bilaterálne projekty	7	0	16203	16203	-
6. Iné projekty financované alebo spolufinancované zo zahraničných zdrojov	0	0	-	-	-

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

2.2.2. Medzinárodné projekty v 7. RP EÚ podané v roku 2009

Tabuľka 2d Podané projekty 7. RP EÚ v roku 2009

	A	B
Počet podaných projektov v 7. RP EÚ	0	4

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

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

2.3. Najvýznamnejšie výsledky vedeckej práce

2.3.1. Základný výskum

1.

Názov:

Deterministické predpovede a bezchybné uzávery v kvantových meraniach

Deterministic predictions and error-free conclusions in quantum measurements

Autori:

V.Bužek, M.Sedlák, M.Ziman

Kvantová teória nám umožňuje robiť iba štatistické predpovede, čo prakticky znamená, že naše závery, založené na nameraných výsledkoch, sú zaťažené istou štatistickou chybou. V špeciálnych situáciách sme však schopní urobiť aj deterministické predpovede a bezchybné závery. V našich prácach [1-7] sme analyzovali možnosti deterministických predpovedí, resp. bezchybných uzáverov, pre všetky typy kvantových objektov, t.j. pre kvantové stavy, kvantové merania a kvantové procesy. Študovali sme problém porovnávania [2,4,7], v ktorom máme k dispozícii dve (neznáme) kvantové zariadenia toho istého typu (alebo preparátor, alebo merací prístroj, alebo kvantový transformátor). Našou úlohou je pri minimálnom počte použití týchto prístrojov (bezchybovo) povedať, či sú zariadenia rovnaké, alebo nie. Navrhli sme experimenty pre optimálne riešenia v prípadoch tzv. kvantovej diskriminácie [1,3,6] (identifikácie) a kvantového porovnávania. Vyvinuli sme matematický formalizmus vhodný na popis meraní kvantových procesov [5] a kvantových meraní [6]. Jeden z návrhov, o ktorom sme ukázali, že je optimálny [3], bol úspešne experimentálne zrealizovaný optickou skupinou v Olomouci.

Quantum theory enables us to perform predictions that are intrinsically statistical. It follows that also our conclusions based on observed events are statistical. However, in special situations deterministic predictions and error-free unambiguous conclusions are possible. In Refs. [1-7] we analyzed the potential of deterministic predictions and unambiguous conclusions for all types of quantum objects, i.e. for quantum states, quantum measurements and quantum processes. We addressed the problem of unambiguous comparison [2,4,7], in which we are given two (unknown) quantum apparatuses of the same type (either preparator, measurement apparatus, or quantum channel). Our goal is to unambiguously decide whether the devices are different, or not. Moreover, we are interested in solutions employing the devices minimal number of times. We design experiments implementing optimal unambiguous state discrimination [1,3,6] and unambiguous comparison. Originally, we developed mathematical formalism for description of measurements of quantum processes [5] and of quantum measurements [6]. One of our optimal proposals [3] was successfully implemented by quantum optics group in Olomouc.

Publikácie:

1. Mário Ziman, Michal Sedlák: Single shot discrimination of quantum unitary processes, J. Mod. Optics. DOI: 10.1080/09500340903349963 (2009)

2. Mário Ziman, Teiko Heinosaari, Michal Sedlák:
Unambiguous comparison of quantum measurements,
Phys. Rev. A 80, 052102 (2009) [arXiv:0905.4445]

3. Michal Sedlák, Mário Ziman, Vladimír Bužek, Mark Hillery:
Unambiguous identification of coherent states II: Multiple resources,

Phys.Rev.A 79, 062305 (2009) [arXiv:0901.3206]

4. Michal Sedlák, Mário Ziman:

Unambiguous comparison of unitary channels,

Phys.Rev.A 79, 012303 (2009) [arXiv:0809.4401]

5. Mário Ziman:

Process POVM: A mathematical framework for the description of process tomography experiments,

Phys.Rev.A 77, 062112 (2008) [arXiv:0802.3862]

6. Mário Ziman, Teiko Heinosaari :

Discrimination of quantum observables using limited resources,

Phys. Rev. A 77, 042321 (2008) [arXiv:0712.3675]

7. Michal Sedlák, Mário Ziman, Vladimír Bužek and Mark Hillery:

Unambiguous comparison of ensembles of quantum states,

Phys.Rev.A 77,042304 (2008) [arXiv:0712.1616]

2.

Názov:

Fluktuácie elektromagnetického poľa

Fluctuations of electromagnetic field

Autori:

Ladislav Šamaj

Predkladaný súbor prác obsahuje presné výsledky v oblasti rovnovážnej štatistickej mechaniky systémov nabitých častíc s elektromagnetickou interakciou. Práce sú zamerané na štúdium fluktuácií elektromagnetického poľa indukovaného náhodným tepelným pohybom častíc. V oblasti dvojrozmerných klasických coulombovských systémov boli odvodené presné formuly pre fluktuácie indukovaného potenciálu [1]. Práca [2] je prvou časťou trilógie o presne riešiteľných modeloch v štatistickej a kvantovej mechanike interagujúcich častíc. Špeciálnym problémom je systém dvoch médií s rozličnými dielektrickými funkciami, ktoré sú vo vzájomnom kontakte [3,4,5]. Na rozhraní medzi médiami existujú fluktuácie povrchového náboja, korelačná funkcia ktorého vykazuje d'alekodosahové mocninné správanie. Bolo ukázané, že zahrnutie retardačných efektov redukuje kvantovú mechaniku na klasickú. Elektromagnetická interakcia medzi časticami vedie k sumačným pravidlám pre nábojové a prúdové korelačné funkcie, ktoré fixujú určité priestorové momenty týchto funkcií [6].

The presented set of works contains exact results in the field of the equilibrium statistical mechanics of systems composed of charged particles with the electromagnetic interaction. The works are oriented to the study of fluctuations of the electromagnetic field, induced by a random thermal motion of particles. In the field of two-dimensional classical Coulomb systems, exact formulas were derived for fluctuations of the induced potential [1]. Paper [2] is the first part of a trilogy about integrable models in the statistical and quantum mechanics of interacting bodies. A system of two media with distinct dielectric functions, which are in contact, was studied in [3,4,5]. There are fluctuations of the surface charge at the interface between media, the correlation function of which exhibits a long-range power law behavior. It was shown that the consideration of retardation effects reduces the quantum mechanics to the classical one. The electromagnetic interaction between particles leads to specific sum rules for charge and current correlation functions, which fix certain moments of these functions [6].

Publikácie:

1. B. Jancovici, L. Šamaj: Guest charge and potential fluctuations in two-dimensional classical Coulomb systems, Journal of Statistical Physics **131** (2008) 613-629.

2. L. Šamaj: Introduction to integrable many-body systems I, acta physica Slovaca **58** (2008) 811-946.

3. L. Šamaj, B. Jancovici: Equilibrium long-ranged charge correlations at the surface of a conductor coupled to electromagnetic radiation, Physical Review E **78** (2008) 051119, 1-9.

4. B. Jancovici, L. Šamaj: Equilibrium long-ranged charge correlations at the surface of a conductor coupled to electromagnetic radiation II, *Physical Review E* **79** (2009) 021111, 1-5.
5. B. Jancovici, L. Šamaj: Equilibrium long-ranged charge correlations at the interface between media coupled to electromagnetic radiation, *Physical Review E* **80** (2009) 031139, 1-9.
6. L. Šamaj: Charge and current sum rules in quantum media coupled to radiation, *Journal of Statistical Physics* **137** (2009) 1-17.

3.

Názov:

Nový spôsob experimentálneho merania všetkých troch elektromagnetických formfaktorov deuterónu
New way of experimental determination of all three deuteron electromagnetic form factors

Autori: S. Dubnička, C. Adamuščin

Vyšetrujú pružný roypťal nepolariyovaných elektrónov na terčikových polarizovaných deuterónoch v smere hybnosti vyletujúceho deuterónu a meraním vektorovej polarizácie vyletujúceho deuterónu v tom istom smere pri tých istých kvadrátoch prenesených hybností "t" ako je meraný účinný prierez nepolarizovaného "e-d" pružného rozptylu, možno novým spôsobom experimentálne zmerať všetky tri elektromagnetické formfaktory deuterónu v priestoru-podobnej oblasti.

By elastic scattering of unpolarized electrons on a polarized deuteron target in the direction of the three momenta of the outgoing deuteron and by measuring the vector polarization of the final deuteron in the same direction and at the same values of squared transferred momenta "t" as the unpolarized elastic "e-d" cross-section is measured, one can find out all three deuteron electromagnetic form factors in the space-like region.

Publikácie:

C.Adamuščin, S.Dubnička, A.Z.Dubničková: *Phys. Rev. C* **80** (2009) 018202.

2.3.2. Aplikačný typ

1.

Názov:

Pentacén - organický polovodič pre aplikácie vo fotovoltike, organickej elektronike a úschove vodíka
Pentacene - organic semiconductor for applications in photovoltaics, organic electronic, and hydrogen storage

Autori:

K. Gmucová, M. Weis, V. Nádaždy

Pentacén je známy ako organický kryštalický polovodič. My sme pripravili amorfnú tenkú vrstvu pentacénu pomocou Langmuir-Blodgettovej metódy, jej amorfný charakter sme dokázali pomocou XRD merania. Z nameraných elektrochemických údajov sme zrekonštruovali energetický pásový diagram tenkej vrstvy pentacénu pripravenej na kovovom povrchu. Pripravené vrstvy sme charakterizovali pomocou C-V a Q-DLTS metód. Na základe analýzy elektrochemických dát sme popísali dynamiku tvorby vodíkových a hydroxylových defektov v mokrom prostredí. Ukázali sme, že Langmuir-Blodgettovej tenká vrstva je schopná viazať vodík efektívnejšie ako vrstva naparená, zdá sa preto byť vhodným materiálom na pokrytie elektród určených na uskladnenie vodíka. Na druhej strane, naparená vrstva lepšie zodpovedá požiadavke na nízku hustotu defektov, ktorá je nutná pre aplikácie v organickej elektronike a fotovoltike.

Pentacene is known as an organic crystalline semiconductor. We have reported preparation of an amorphous pentacene Langmuir-Blodgett film, its amorphous character has been proved by XRD measurements. The energy band diagram of the pentacene film prepared on a metallic surface was reconstructed from the obtained electrochemical data. Prepared thin films have been characterized with the help of both the C-V and Q-DLTS methods. The dynamics of both the hydrogen- and hydroxyl-related defects formation in wet environment was described. We have ascertained that Langmuir-Blodgett film is able to bond hydrogen more effectively than the thermally evaporated one, it seems be promising electrode coverage for applications in

hydrogen-storage. Contrary, thermally evaporated film provides a better matching of defect-less properties necessary for the application in organic electronics and photovoltaics.

Publikácie:

1. K. Gmucová, M. Weis, M. Della Pirriera, J. Puigdollers:

A comparative study of hydrogen- and hydroxyl-related pentacene defect formation in thin films prepared by Langmuir-Blodgett technique and thermal evaporation, phys. stat. sol. (a) 206 (2009) 1404-1409.

2. M. Weis, K. Gmucová, D. Haško, J. Müllerová:

Structural and electronic properties of pentacene-pentacenequinone thin films prepared by Langmuir-Blodgett technique, Collect. Czech. Chem. C. 74 (2009) 565-579.

3. V. Nádaždy, R. Durný, J. Puigdollers, C. Voz, S. Cheylan, M. Weis:

Defect states in pentacene thin films prepared by thermal evaporation and Langmuir-Blodgett technique, J. Non-Cryst. Solids 354 (2008) 2888-2891.

4. M. Weis, J. Lin, D. Taguchi, T. Manaka, M. Iwamoto:

Analysis of Transient Currents in Organic Field Effect Transistor: The Time-of-Flight Method, J. Phys. Chem. C 113 (2009) 18459-18461.

2.

Názov:

Knižnica sofistikovaných funkcií na analýzu jadrových spektier
Library of sophisticated functions for analysis of nuclear spectra

Autori:

M. Morháč, V. Matoušek, I. Turzo

SpecAnalysLib je knižnica funkcií na analýzu jedno- a dvoj-parametrických spektier γ -žiarenia. Pozostáva ako z konvenčných, tak aj z novo vyvinutých metód, potrebných pri analýze experimentálnych dát. Knižnica obsahuje pokročilé funkcie na elimináciu pozadia, hladenie, vyhľadávanie, dekonvolúciu a fitovanie pík. Algoritmy pre odhad pozadia sú založené na nelineárnom iteratívnom algoritme detekcie pík (SNIP). Algoritmy hladenia využívajú buď konvolúciu pôvodných dát s niekoľkými typmi filtrov alebo diskkrétne Markovove reťazce. Algoritmy hľadania pík využívajú hladené druhé diferencie a dokážu vyhľadávať píky všeobecného tvaru. Funkcie na dekonvolúciu (dekompozíciu - rozklad) využívajú Goldov iteratívny algoritmus, jeho zdokonalenú verziu s vysokým rozlíšením a Richardson-Lucy algoritmus. Pri algoritmoch fitovania pík sme implementovali dva prístupy: Prvý je založený na algoritme bez nutnosti výpočtu inverznej matice – AWM algorithm. Tento algoritmus dovoľuje fitovať veľké bloky dát a veľký počet parametrov. Druhý je založený na riešení systému lineárnych rovníc Stiefel-Hestensovou metódou. Konverguje rýchlejšie ako AWM, avšak nie je vhodný na fitovanie veľkého počtu parametrov.

SpecAnalysLib is a library of functions for analysis of one- and two-parameter γ -ray spectra. It consists of a number of conventional as well as newly developed methods needed to analyze experimental data. There are included sophisticated functions for background elimination, smoothing, peak searching, deconvolution, and peak fitting.

The algorithms of background estimation are based on Sensitive Nonlinear Iterative Peak (SNIP) clipping algorithm. The smoothing algorithms are based on convolution of the original data with several types of filters and algorithms based on discrete Markov chains. The peak searching algorithms use the smoothed second differences and they can search for peaks of general form. The deconvolution (decomposition - unfolding) functions use the Gold iterative algorithm, its improved high resolution version and Richardson-Lucy algorithm. In the algorithms of peak fitting we have implemented two approaches. The first one is based on the algorithm without matrix inversion - AWM algorithm. It allows to fit large blocks of data and large number of parameters. The other one is based on the calculation of the system of linear equations using

Stiefel-Hestens method. It converges faster than the AWMI, however it is not suitable for fitting large number of parameters.

Publikácie:

1. M. Morháč, V. Matoušek: Library of sophisticated functions for analysis of nuclear spectra, Computer Physics Communications, 180 (2009), No. 10, pp. 1913-1940.
2. M. Morháč, V. Matoušek: Complete positive deconvolution of spectrometric data, Digital Signal Processing, **19** (2009), No. 3, pp. 372-392.
3. M. Morháč: An algorithm for determination of peak regions and baseline elimination in spectroscopic data, Nucl. Instr. Meth., **A 600** (2009), pp. 478-487
4. M. Morháč, V. Matoušek, I. Turzo: Measurement and simultaneous compression of multidimensional γ -ray histograms using address randomizing transforms, Measurement, **42** (2009), No.8, pp. 1241-1256.

2.3.3. Medzinárodné vedecké projekty

1.

Názov:

Modelovanie organometalických nanoprechodov: od elektrónovej štruktúry, po kontrolu pevnosti a spínanie na nanoškále

Autori:

I. Štich, R. Turanský, M. Dubecký

Súbor piatich prác v spolupráci so skupinou prof. Marxa (Ruhr Universität Bochum) venovaných organometalickým nanoprechodom (organická molekula ukotvená na kovových klastroch, povrchoch alebo hrotoch). Študovali sme mechanickú v.s. termálnu aktiváciu systému tiolát/med' a mechanické v.s. opto-mechanické reverzibilné spínanie molekulového spínača (fotospínateľná molekula azobenzénu ukotvená na zlate). Zistili sme, že forma aktivácie zohráva kľúčovú úlohu pri fragmentácii študovaných nanoprechodov. Štúdium molekulového spínača ukázalo, že spínanie je možné čiste mechanicky alebo opto-mechanicky, ale nie čiste opticky.

Publikácie:

1. M. Konôpka, **R. Turanský**, **M. Dubecký**, D. Marx a **I. Štich**: Molecular mechanochemistry understood at the nanoscale: Thiolate interfaces and junctions with copper surfaces and clusters, Journal of Physical Chemistry C **113** (2009) 8878-8887.
2. **R. Turanský**, M. Konôpka, N. L. Doltsinis, **I. Štich** a D. Marx: Optical, mechanical, and opto-mechanical switching of anchored dithioazobenzene bridges, ChemPhysChem (2010) v tlači, dostupný online od 23. októbra 2009 [IF 2009: 3.636].
3. M. Konôpka, **R. Turanský**, N. L. Doltsinis, D. Marx a **I. Štich**: Azobenzene-metal junction as a mechanically and opto-mechanically driven switch, High Performance Computing in Science and Engineering '08, Transactions of the High Performance Computing Center, Stuttgart (HLRS) 2008, W. E. Nagel, D. B. Kröner and M. M. Resch, eds. (Springer, Berlin-Heidelberg, 2009) 95-108.
4. M. Konôpka, **R. Turanský**, N. L. Doltsinis, D. Marx a **I. Štich**: Organometallic nanojunctions probed by different chemistries: thermo-, photo-, and mechano-chemistry, Advances in Solid State Physics **48** (2009) 219-235.
5. M. Konôpka, **R. Turanský**, J. Reichert, H. Fuchs, D. Marx, **I. Štich**: Mechanochemistry and thermochemistry are different: Stress-induced strengthening of chemical bonds, Physical Review Letters **100** (2008) 115503.

2.

Názov:

Kvantová zložitosť
Quantum complexity

Autori:

Daniel Nagaj

Kvantová zložitosť kvantifikuje pre daný problém časovú a pamäťovú náročnosť uskutočnenia príslušných kvantových výpočtov. Na základe zložitosti rozdeľujeme výpočtové problémy do tzv. tried. Jednou z nich je trieda označovaná ako QMA, v ktorej sa predpokladá existencia zariadenia, ktoré dokáže overiť v polynomiálnom čase správnosť výsledku s pravdepodobnosťou väčšou ako nejaká fixná hodnota A a súčasne pre všetky nesprávne výsledky bude pravdepodobnosť nesprávneho uzáveru menšia ako hodnota B . V práci [1] sme navrhli algoritmus (kvadraticky rýchlejší ako predošlé), ktorý exponenciálne zväčší interval medzi A a B . V ďalšej práci [2] sme navrhli kvantový algoritmus, ktorý polynomiálne zlepšuje klasický algoritmus na aproximáciu štatistickej sumy. V práci [3] sme skonštruovali translačne-invariantný interakčný (“next-neighbour”) Hamiltonián jednorozmernej reťazky 10-rozmerných systémov, ktorý je univerzálny pre kvantové počítanie. Oproti štandardnému obvodovému modelu má výhodu, že nepotrebuje žiadnu externú kontrolu počas vykonávania výpočtu. Algoritmus je zakódovaný v počiatočnom (faktorizovanom) stave programového registra. Výpočet je uskutočnený v polynomiálnom čase a odčítaný s vysokou pravdepodobnosťou premeraním zopár systémov v počítačovej báze. Tento výsledok znamená, že všeobecný Hamiltonián spomínaného typu nie je možné efektívne simulovať na klasickom počítači. Jedine, že by kvantové počítače neboli efektívnejšie ako klasické. Články vznikli v spolupráci so skupinou prof. Pawla Wocjana z University of Florida.

For a solution to a given problem the field of quantum complexity quantifies the required time and memory resources of quantum computers. Based on their complexity we divide computational problems into classes. For the so-called QMA class we assume there exist a machine which effectively (in polynomial time) verifies the validity of the potential outcome with probability larger than some fixed value A , and simultaneously, for all incorrect solutions the probability of acceptance is smaller than some value B . In Ref. [1] we proposed an algorithm (quadratically faster than previous ones), which exponentially increases the interval between A and B . In Ref.[2] we proposed a quantum algorithm for approximation of statistical sum, which is polynomially faster than any classical algorithm. In Ref.[3] we designed a translationally invariant (next neighbour) interaction Hamiltonian of one dimensional string of 10-dimensional quantum systems, which enables us to realize universal quantum computation. The advantage of this implementation of universal quantum computers is that no external control is needed. An algorithm is encoded in a factorized state of program register. The computation is performed in polynomial time and outcome is read out with high probability by a simple measurement in the computational basis. Our result implies that a general Hamiltonian of the considered form cannot be effectively simulated on a classical computer. Otherwise, quantum computers will not have stronger computational power. All papers were written in collaboration with prof. Pawel Wocjan from University of Florida.

Publikácie:

1. Daniel Nagaj, Pawel Wocjan, Yong Zhang:

Fast Amplification of QMA,

QIC Vol.9 No.11&12 (2009), 1053-1068 [arXiv:0904.1549].

2. Pawel Wocjan, Chen-Fu Chiang, Anura Abeyesinghe, Daniel Nagaj:

Quantum algorithm for approximating partition functions,

Phys. Rev. A 80, 022340 (2009) [arXiv:0811.0596].

3. Daniel Nagaj, Pawel Wocjan :Hamiltonian Quantum Cellular Automata in 1D, Phys. Rev. A 78, 032311 (2008) [arXiv:0802.0886].

2.3.4. Zámery na čerpanie štrukturálnych fondov EÚ v ďalších výzvach

Fyzikálny ústav SAV sa úspešne zapojil do výziev Operačného programu Výskum a vývoj Štrukturálnych fondov EÚ a plánuje saaj naďalej zapájať do výziev, v súlade s tým ako budú v priebehu roku 2010 vyhlasované Agentúrou pre Štrukturálne fondy EÚ.

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

Tabuľka 2e Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	Počet v r. 2009/ doplňky z r. 2008
1. Vedecké monografie vydané v domácich vydavateľstvách (AAB, ABB, CAB)	0 / 0
2. Vedecké monografie vydané v zahraničných vydavateľstvách (AAA, ABA, CAA)	0 / 0
3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané v domácich vydavateľstvách (BAB, ACB)	0 / 0
4. Odborné monografie a vysokoškolské učebnice a učebné texty vydané v zahraničných vydavateľstvách (BAA, ACA)	0 / 0
5. Kapitoly vo vedeckých monografiách vydaných v domácich vydavateľstvách (ABD, ACD)	0 / 0
6. Kapitoly vo vedeckých monografiách vydaných v zahraničných vydavateľstvách (ABC, ACC)	3 / 0
7. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v domácich vydavateľstvách (BBB, ACD)	0 / 0
8. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v zahraničných vydavateľstvách (BBA, ACC)	0 / 0
9. Vedecké a odborné práce v časopisoch evidovaných v Current Contents (ADC, ADCA, ADCB, ADD, ADDA, ADDB, CDC, CDCA, CDCB, CDD, CDDA, CDDB, BDC, BDCA, BDCB, BDD, BDCA, BDDB)	69 / 5
10. Vedecké a odborné práce v nekarentovaných časopisoch (ADE, ADEA, ADEB, ADF, ADFA, ADFB, CDE, CDEA, CDEB, CDF, CDFA, CDFB, BDE, BDEA, BDEB, BDF, BDFA, BDFB)	12 / 0
11. Vedecké a odborné práce v zborníkoch (konferenčných aj nekonferenčných, vydaných tlačou alebo na CD)	
a/ recenzovaných (AEC, AED, AFA, AFB, AFBA, AFBB, BEC, BED, CEC, CED)	3 / 0
b/ nerecenzovaných (AEE, AEF, AFC, AFD, AFDA, AFDB, BEE, BEF)	33 / 0
12. Vydané periodiká evidované v Current Contents	1
13. Ostatné vydané periodiká	0
14. Vydané alebo editované zborníky z vedeckých podujatí (FAI)	0 / 1
15. Vedecké práce uverejnené na internete (GHG)	0 / 0
16. Preklady vedeckých a odborných textov (EAJ)	0 / 0

Tabuľka 2f Ohlasy

OHLASY	Počet v r. 2008	Doplňky za r. 2007
Citácie vo WOS (1.1, 2.1)	1616	5
Citácie v SCOPUS (1.2, 2.2)	27	1
Citácie v iných citačných indexoch a databázach (9, 10)	0	0
Citácie v publikáciách neregistrovaných v citačných indexoch (3, 4)	59	0
Recenzie na práce autorov z organizácie (5, 6, 7, 8)	0	0

Počet nezaradených citácií z kategórie [1]: 4

Počet nezaradených citácií z kategórie [1] (doplňky): 3

2.5. Aktívna účasť na vedeckých podujatiach

Tabuľka 2g Konferencie

Prednášky a vývesky na medzinárodných vedeckých podujatiach	137
Prednášky a vývesky na domácich vedeckých podujatiach	56

2.6. Vyžiadané prednášky

2.6.1. Vyžiadané prednášky na medzinárodných konferenciách

J. Bartoš, O. Šauša, M. Köhler, H. Švajdlenková, P. Lunkenheimer, J. Krištiak and A. Loidl.
Positron annihilation and broadband dielectric spectroscopy: A series of propylene glycols
6-th IDMRCs, Roma, 30.8.-5.9.2009.

J. Bartoš, O. Šauša, G. A. Schwartz, A. Alegría, J. M. Alberdi, J. Krištiak and J. Colmenero.
Positron annihilation response and the relaxation dynamics from broadband dielectric spectroscopy and nuclear magnetic resonance: 1,4-poly(butadiene)
The Glass Transition in Binary Mixtures, 6-th IDMRCs, Roma, 30.8.-5.9.2009.

Vlastimil Boháč, Peter Dieška, Ľudovít Kubičár, The Progress in Development of New Models for Pulse Transient Method, PROCEEDINGS of THERMOPHYSICS 2007, Editor: Jozef Leja, Vydavateľstvo STU, Bratislava 2007, ISBN 978-80-227-2746-4, pp. 24-33

V.Boháč a kol.(Ľ.Kubičár, V.Vretenár, P.Dieška, V.Štofanič) Súbor pozvaných prednášok Measurement of Thermophysical Properties by Transient Methods

- 1 1A - Review of transient techniques
 1B - Model Development and Analysis of the Pulse Transient Technique
 1C - RT-Lab - Equipment for Transient Methods Measurements
 - 2 2A - Applications of Transient Methods in Praxes (Pulse and Hot Ball)
 2B - Investigation of building materials by transient methods
 - 3 3 Thermophysical and Sound Velocity Analysis of Gioia Marble
- Workshop on Thermo-acoustics tools 2008, University of Sharjah – UAE, 19-22 May, 2008,

V.Boháč, Ľ.Kubičár, L.Némethy, P.Dieška, Measurement of Thermophysical properties of PORFIX Material Depending on Moisture Content, THERMOPHYSICS 2009, 29 - 30 October 2009, Hotel Hubertus, Valtice Chateau, Czech Republic

H. Kobayashi, E. Pinčík, Nitric Acid Oxidation of Si-method for Fabrication of Si/SiO₂ Structure at 120°C and its Application to Thin Film Transistors, VI International Workshop on Semiconductor Surface Passivation (SSP 2009), September 13-18, 2009, Zakopane, Poľsko

H. Kobayashi, E. Pinčík, „**Nitric Acid Oxidation of Si(NAOS) Method for the Formation of Gate Oxides in TFT**“, Progress in Applied Surface, Interface, and Thin Film Science 2009 (SURFINT-SREN II), Florencia, Taliansko, November 16-19, 2009

Š.Luby, E.Majková, P.Šiffalovič, M.Jergel : Semiconductors, Electronics, Information Technology – History and Perspectives, "15th Int. Conf. on Applied Physics of Condensed Matter - APCOM 2009", Liptovský Ján, June 24-26, 2009

Š. Olejník, Vacuum structure and Casimir scaling in Yang-Mills theories. Pozvaná prednáška, International Workshop on QCD Green's Functions, Confinement and Phenomenology, 7-11.9.2009, ECT Trento, Taliansko.

Š. Olejník, Ground-state solution of the Yang-Mills Schroedinger equation in 2+1 dimensions. Pozvaná prednáška, Erwin Schroedinger Symposium 2009, 20.-21.11.2009, Praha, Česká republika.

E. Pinčík, „On Ultra-Thin Oxide/Si and Very-Thin Oxide/Si structures Prepared by Wet Chemical Process“, VI International Workshop on Semiconductor Surface Passivation (SSP 2009), September 13-18, 2009, Zakopane, Poľsko

P. Siffalovic, K. Vegso, L.Chitu, M. Jergel, E. Majková, Š.Luby, “The novel applications of table-top GISAXS systems”, PRORA 2009 Prozessnahe Röntgenanalytik 26.-27.11 2009 Berlin, Germany (invited)

P. Siffalovic, E. Majková, L.Chitu, M. Jergel, Š.Luby, A.Šatka, S.V.Roth, “Self-assembled nanoparticle templates for future spintronic devices”, HASYLAB User Meeting, January 30, 2009, Hamburg, Germany (invited)

P. Švec (Sr.), P. Švec, R. Portier, Microstructure analysis of nanomaterials by electron microscopy and diffraction methods, Microstructure and Fracture -Mechanical Properties of Nanostructured Materials, First Training School of DEMATEN, 7FP Network Programme Project, Kosice, March 18, 2009.

P. Svec, I. Skorvanek, D. Janickovic, P. Svec Sr., Physical processing of rapidly quenched alloys – the case of nanocrystalline Fe-B. New perspectives of materials prepared by rapid quenching, ICAM 2009, 11th Intl. Conference on Advanced Materials, Rio de Janeiro, September 20-25, 2009.

P. Švec (Sr.), P. Švec, R. Portier, Využitie metód transmisnej elektrónovej mikroskopie a difrakčných metód pre štruktúrnú analýzu nanomateriálov, seminár „Nanotechnologické aplikácie prístrojů časticové optiky“, TESCAN, Brno, August 19, 2009.

I. Štich, Optical, Mechanical and Opto-Mechanical Cycles of Anchored Photochromic Molecules, MSL workshop "Accessing large length and time scales with accurate quantum methods", Jan. 2009, London, U.K.

I. Štich, Azobenzene: From electronic structure to molecular switching, The 3rd Japan-Czech-Slovak Symposium on Theoretical and Computational Chemistry, · Sept. 2009, Bratislava, Slovensko.

I. Štich, Motion of Sb Nanoparticles on HOPG: Simulation study of frictionless behaviour, Energy Dissipation in Nanocontacts and Molecular Bonds, · Sept. 2009, Dresden, Nemecko

M. Veselsky and G.A. Souliotis, Isospin dynamics and production of exotic nuclei in nucleus-nucleus collisions at beam energies up to 50 AMeV, 10th International Conference on Nucleus-Nucleus Collisions NN2009, Beijing (China), August 16-21, 2009.

Martin Veselsky, G.A. Souliotis, A. Keksis, S.J. Yennello, Kun Wang and Yu-Gang Ma, Dynamical emission of neutrons at Fermi energies, "The International Workshop on Nuclear Dynamics in Heavy-Ion Reactions and the Symmetry Energy (IWND2009)", Shanghai, China, Aug 23-25th, 2009.

2.6.2. Vyžiadané prednášky na domácich konferenciách

D. Janickovic, "Výskumné PPP projekty vo výzve siedmeho rámcového programu Európskej únie na roky 2010 - 2013.", 12. Národné fórum produktivity; 20.október 2009, Žilina

D. Janickovic, "PPP projekty vo výskume ako súčasť 7. RP EÚ na roky 2010-2013", Slovak PPP Forum 2009; 4. 1. 2009 Austria Trend Hotel, Bratislava

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

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

P.Filip, "Effects of Nuclear Deformation in Heavy Ion Collisions", Kent State University, Kent, OH, USA, 10.4. 2009.

P.Filip, "Initial Eccentricity in Collisions of Deformed Nuclei", Lawrence Berkeley National Laboratory, Berkeley, CA, USA, 17.2.2009.

P.Filip, "Effects of Nuclear Deformation in Heavy Ion Collisions", Joint Institute of Nuclear Research, Dubna, Ruska Federacia, 29.6.2009.

Š. Lányi, "Charge-transient-based analysis at the nanoscale", Faculty of Microsystem Electronics, Wroclaw, Poľsko

Š. Lányi, "Charge-transient-based analysis at the nanoscale", CNR-Istituto per la Microelettronica e i Microsistemi, Catania, Taliansko

2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2009

2.7.1. Vynálezy, na ktoré bol udelený patent

2.7.2. Prihlásené vynálezy

2.7.3. Predané licencie

2.7.4. Realizované patenty

Finančný prínos pre organizáciu SAV v roku 2009 a súčet za predošlé roky sa neuvádzajú, ak je zverejnenie v rozpore so zmluvou súvisiacou s realizáciou patentu.

2.8. Iné informácie k vedeckej činnosti.

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

3.1. Údaje o doktorandskom štúdiu

Tabuľka 3a Počet doktorandov v roku 2009

Forma	Počet k 31.12.2009		Počet ukončených doktorantúr v r. 2009							
	Doktorandi								Ukončenie z dôvodov	
	celkový počet		z toho novoprijatí		úspešnou obhajobou		uplynutím času určeného na štúdium	neobhájéním dizertačnej práce alebo neudelením vedeckej hodnoty	rodinných, zdravotných a iných, resp. bez udania dôvodu	nevykonania odbornej skúšky
	M	Ž	M	Ž	M	Ž				
Denná	9	4	2	2	3	0	0	0	0	0
Externá	0	0	0	0	0	0	0	0	0	0
Spolu	9	4	2	2	3	0	0	0	0	0

3.2. Zmena formy doktorandského štúdia

Tabuľka 3b Preradenie z dennej formy na externú a z externej formy na dennú

	Počet
Preradenie z dennej formy na externú	
Preradenie z externej formy na dennú	

3.3. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou

Tabuľka 3c Menný zoznam ukončených doktorandov v roku 2009

Meno doktoranda	Forma DŠ	Mesiac, rok nástupu na DŠ	Mesiac, rok obhajoby	Číslo a názov vedného odboru	Meno a organizácia školiteľa	Fakulta udeľujúca vedeckú hodnotu
Ľudovít Lipták	Interné štúdium hrazené z prostried. SAV	9 / 2005	9 / 2009	4.1.5, jadrová a subjadrová fyzika	Štefan Olejník, RNDr., DrSc., Fyzikálny ústav	Fakulta matematiky, fyziky a informatiky UK
Marek Paluga	Interné štúdium hrazené z prostried. SAV	11 / 2004	9 / 2009	4.1.3, fyzika kondenzovaných látok a akustika	Peter Švec, Ing., DrSc., Fyzikálny ústav	Fakulta matematiky, fyziky a informatiky UK

Michal Sedlák	Interné štúdium hradené z prostried. SAV	9 / 2005	10 / 2009	4.1.2, všeobecná fyzika a matematická	Prof.RNDr. Vladimír Bužek, DrSc., Fyzikálny ústav	Fakulta matematiky, fyziky a informatiky UK
Michal Sečanský	Interné štúdium hradené z prostried. SAV	9 / 2002	11 / 2009	11-24-9, jadrová a subjadrová fyzika	Prof.RNDr. Stanislav Dubnička, DrSc., Fyzikálny ústav	Fakulta matematiky, fyziky a informatiky UK

Zoznam interných a externých doktorandov je uvedený v Prílohe A.

3.4. Zoznam akreditovaných študijných odborov s uvedením VŠ

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

Názov študijného odboru (ŠO)	Číslo ŠO	Doktorandský študijný program uskutočňovaný na: (univerzita/vysoká škola a fakulta)
všeobecná fyzika a matematická fyzika	11-21-9	Fakulta matematiky, fyziky a informatiky UK
fyzika kondenzovaných látok a akustika	11-22-9	Fakulta matematiky, fyziky a informatiky UK
kvantová elektronika a optika	11-23-9	Fakulta matematiky, fyziky a informatiky UK
jadrová a subjadrová fyzika	11-24-9	Fakulta matematiky, fyziky a informatiky UK
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
mikroelektronika	5.2.13	Fakulta elektrotechniky a informatiky STU
fyzikálne inžinierstvo	5.2.48	Fakulta elektrotechniky a informatiky STU

Tabuľka 3e Účasť na pedagogickom procese

Menný prehľad pracovníkov, ktorí boli menovaní do spoločných odborových komisií pre doktorandské štúdium	Menný prehľad pracovníkov, ktorí pôsobili ako členovia vedeckých rád univerzít, správnych rád univerzít a fakúlt	Menný prehľad pracovníkov, ktorí získali vyššiu vedeckú, pedagogickú hodnotu alebo vyšší kvalifikačný stupeň
Doc. RNDr. Emil Běták, DrSc., FInstP. (jadrová a subjadrová fyzika)	Prof. RNDr. Vladimír Bužek, DrSc. (Fakulta matematiky, fyziky a informatiky UK)	RNDr. Martin Plesch, PhD. (IIa)
Doc. RNDr. Emil Běták, DrSc., FInstP. (odbor v zahraničí)	Prof., Ing. Štefan Luby, DrSc. (Univerzita Mateja Bela v Banskej Bystrici)	Mgr. Ľudovít Lipták (PhD., Univerzita Komenského v Bratislave)
Prof. RNDr. Vladimír Bužek, DrSc. (všeobecná fyzika a matematická fyzika)	Prof., Ing. Štefan Luby, DrSc. (Trnavská univerzita v Trnave)	RNDr. Daniel Reitzner (RNDr., Fakulta matematiky, fyziky a informatiky UK)
Ing. Štefan Gmuca, CSc. (jadrová a subjadrová fyzika)	Prof., Ing. Štefan Luby, DrSc. (Slovenská technická univerzita v Bratislave)	
Ing. Matej Jergel, DrSc. (kvantová elektronika a optika)	Prof., Ing. Štefan Luby, DrSc. (Slovenská zdravotnícka univerzita v Bratislave)	
RNDr. Eva Majková, DrSc. (fyzika kondenzovaných látok a	Prof., Ing. Štefan Luby, DrSc. (Univerzita Komenského v	

akustika)	Bratislave)	
RNDr. Eva Majková, DrSc. (kvantová elektronika a optika)	Prof., Ing. Štefan Luby, DrSc. (Trenčianska univerzita Alexandra Dubčeka v Trenčíne)	
Ing. Vojtech Nádaždy, CSc. (elektrotechnológie a materiály)	RNDr. Eva Majková, DrSc. (Fakulta matematiky, fyziky a informatiky UK)	
RNDr. Štefan Olejník, DrSc. (jadrová a subjadrová fyzika)		
Prof., RNDr. Milan Ožvold, CSc. (elektronika)		
RNDr. Ladislav Šamaj, DrSc. (všeobecná fyzika a matematická fyzika)		
Ing. Peter Švec, DrSc. (fyzikálne inžinierstvo)		
Ing. Peter Švec, DrSc. (fyzika kondenzovaných látok a akustika)		

3.5. Údaje o pedagogickej činnosti

Tabuľka 3f Prednášky a cvičenia vedené v roku 2009

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	9	2	1	2
Celkový počet hodín v r. 2009	93	98	2	94

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	8
2.	Počet vedených alebo konzultovaných diplomových a bakalárskych prác	15
3.	Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)	7
4.	Počet oponovaných dizertačných a habilitačných prác	10
5.	Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce	7
6.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác	1
7.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác	3
8.	Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti v inauguračnom alebo habilitačnom konaní na vysokých školách	5

3.6. Iné dôležité informácie k pedagogickej činnosti

FÚ v r. 2009 dobudoval pracovisko, v ktorom začína prebiehať blokovo vzdelávanie študentov doktorandského štúdia. Toto pracovisko, včítane jeho personálneho obsadenia, sa formuje ako súčasť projektu QUTE - Centrum excelentnosti kvantových technológií, podporeného vo výzve štrukturálnych fondov v programme 4.1, *Podpora sietí excelentných pracovísk výskumu a vývoja ako pilierov rozvoja regiónu v Bratislavskom kraji*. Na túto aktivitu má FÚ vybudované školiace pracovisko, s detašovaným pracoviskom FMFI v Pavilóne kvantových technológií na FÚ. Už v r. 2008 sa pripravila dohoda s FMFI UK o spolupráci, ktorá položila základ výrazným pedagogickým aktivitám v doktorandskom štúdiu. Cieľom je skoncentrovať najlepší vzdelávací potenciál na tomto pracovisku, rovnako ako študentov doktorandského štúdia v oblasti „kvantových technológií“ v rámci blokovej schémy vzdelávania. V štádiu prípravy sú aj zmluvy o spolupráci v oblasti vzdelávania doktorandov s ďalšími univerzitami a ústavmi SAV (napr. s UPJŠ Košice a EIÚ SAV). V r. 2009 sme oslovili aj univerzity z mimobratislavského regiónu.

Tak ako po minulé roky bol FÚ úspešný aj v získavaní projektov LPP (Ľudský potenciál a popularizácia) v rámci ktorého získal finančne atraktívne štipendia pre troch doktorandov. V trende zatriaktivňovania doktorandského štúdia aj cez získavanie doktorandských štipendií z APVV chceme pokračovať aj v r. 2010, za predpokladu, že takéto výzvy budú vyhlásené.

4. Medzinárodná vedecká spolupráca

4.1. Medzinárodné vedecké podujatia

4.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2009 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

Relativistic Nuclear Physics: From Hundreds MeV to TeV 05.06.-11.06.2009, Kongresové centrum Akadémia, Stará Lesná, Slovensko

Hadron Structure '09 30.08.-03.09.2009, HOTEL RYSY, Tatranská Štrba, Slovenská Republika

An intention of the Hadron Structure '09 International Conference is mainly to review the newest theoretical and experimental results on the structure of hadrons from the point of view of the strong, electromagnetic and weak interactions. However, there will be no strict restrictions and we expect presentations also on the newest verification of the Standard model and its extension, as well as Higgs particle physics. The Conference will consist of presentations of invited lectures as well short communications, with a mix of theoretical talks and experimental reviews.

Progress in Applied Surface, Interface and Thin Film Science 2009 (SURFINT – SREN II) 15.11.-20.11.2009, Florencia, Taliansko

CEQIP 2009, 1.6.-4.6. 2009, Jindřichuv Hradec, Česká republika

V4 summer schol in quantum information, 21-27.9. 2009, Budmerice, Slovenská republika

4.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2010 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

Annual meeting projektu COST MP0602, Bratislava 6.-9.4.2010.

Medzinárodný Turnaj mladých fyzikov, ktorý sa uskutoční 8. až 18. Júla vo Viedni, následné zasadnutie medzinárodného organizačného výboru v Bratislave.

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	4	3	8

4.2. Členstvo a funkcie v medzinárodných orgánoch

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

Doc. RNDr. Emil Běták, DrSc., FInstP.

Institute of Physics (funkcia: člen Fellowship Panelu)

Institute of Physics (funkcia: Fellow)

RNDr. Róbert Brunner, CSc.

SPIE CS (funkcia: člen výboru)

RNDr. Pavol Butvin, CSc.

European Physical Society (funkcia: člen)

Prof. RNDr. Vladimír Bužek, DrSc.

American Physical Society (funkcia: člen)

Institute of Physics (funkcia: Fellow)

Optical Society of America (funkcia: Fellow)

Rakúska akadémia vied (funkcia: zahraničný člen)

Ing. Matej Jergel, DrSc.

Česko-Slovenská kryštalografická spoločnosť (funkcia: člen, 1996-2002 člen Rady)

European Crystallographic Association (funkcia: individuálny člen)

RNDr. Dalibor Krupa, CSc., DPhil. FInstP

American Physical Society (funkcia: member)

Bieloruská fyzikálna spoločnosť (funkcia: Čestný člen)

European Physical Society (funkcia: Fellow)

Európska fyzikálna spoločnosť (funkcia: člen)

Institute of Physics (Great Britain) (funkcia: Fellow)

Nemecká fyzikálna spoločnosť (funkcia: čestný člen)

Poľská fyzikálna spoločnosť (funkcia: Čestný člen)

Ruská fyzikálna spoločnosť (funkcia: Čestný člen)

Science and Technology - International Energy Foundation (funkcia: Assistant Under Secretary)

World Innovation Foundation (funkcia: Fellow)

Ing. Štefan Lányi, DrSc.

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

Materials Research Society (funkcia: člen)

Prof., Ing. Štefan Luby, DrSc.

Europska akademija vied a umeni (funkcia: senator)

World Innovation Foundation (funkcia: člen)

International Informatization Academy (funkcia: člen)

Prof., RNDr. Eva Majerníková, DrSc.

American Physical Society (funkcia: členka)

RNDr. Eva Majková, DrSc.

Academia Europea Scientiarum et Artium, (funkcia: socius ordinarius)

International Union of Vacuum Science, Technology and Applications, IUVSTA, Divízia

tenkých vrstiev (funkcia: národný reprezentant)

RNDr. Martin Plesch, PhD.

Medzinárodný výbor Turnaja mladých fyzikov (funkcia: Generálny tajomník)

Ing. Peter Švec, DrSc.

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

Ing. Martin Weis, PhD.

the Japanese Society of Applied Physics (funkcia: člen)

4.2.2. Členstvo v redakčných radách medzinárodných časopisov

Prof. RNDr. Vladimír Bužek, DrSc.

European Physical Journal D (funkcia: editor)

Journal of Modern Optics (funkcia: člen redakčnej rady)

Physical Review A (funkcia: člen redakčnej rady)

RNDr. Stanislav Dubnička, DrSc.

MEDICUS (funkcia: člen red. rady)

Ing. Štefan Lányi, DrSc.

Československý časopis pro fyziku (funkcia: člen RR)

RNDr. Ladislav Šamaj, DrSc.

Journal of Statistical Mechanics (funkcia: Editor)

Ing. Peter Švec, DrSc.

Kovové materiály - Metallic Materials (funkcia: člen redakčnej rady)

Prof., Ing. Štefan Luby, DrSc.

Mediterranean Review (funkcia: člen redakčnej rady)

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

Tabuľka 4b Počet pracovníkov hodnotiacich projekty

Meno	Typ programu/projektu	Počet
Dubnička Stanislav	PAC Dubna	4
Jergel Matej	APVV	1
Kubičár Ľudovít	7RP, Call energia	6
Luby Štefan	7RP, Call cooperation/security	5
Majková Eva	APVV, AC CR	3
Plesch Martin	APVV	2

Šurda Anton	Grantová Agentura AV ČR/4/404	2
Švec Peter	COST MPNS	84

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

*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)

- Katedra Inžinierskej Geológie PF UK (VEGA grant)
- Katedra Anorganickej Chémie, PF UK (VEGA grant)
- Katedra fyziky, Katedra rádioelektroniky, FEI STU
- spolupráca pri vývoji nových fyzikálnych modelov pre pulznú teransientnú metódu a pre Hot Ball metódu
- monitorovanie tepelno-vlhkostného režimu masívu Spišského hradu
- vývoj modelov meracích metód prechodovými metódami
- vývoj elektroniky a meracích systémov
- vývoj monitorovacích systémov (**V. Boháč, I. Kubičár**)
- Žilinská univerzita, Katedra fyziky EIF a Detašované pracovisko EIF ŽU v Liptovskom Mikuláši. GS. (**Gmuca, K. Gmucová, E. Pinčík, R. Brunner, J. Rusnák**)
- Katedra experimentálnej fyziky, FMFI UK (**M. Hartmanová**)

(**E. Illeková**):

- Mat. Technol. Fakulta STU v Trnave – spoločný projekt VEGA, spolupráca pri školení, príprave a získavaní exp. výsledkov doktorandov v Lab. termickej analýzy – 2 publikácie (Kriška et.al., Kahalová et al.), 2 kandidátske práce (Kriška, Kahalová).
- FEI STU v Bratislave – spoločný výskum v rámci 2 projektov VEGA, členka komisie pre obhajoby doktorskej práce Ing. Pavúk - oponentka, praktické školenie študentov v Lab. termickej analýzy, 1 publikácia
- PriFUK, Katedra anorganickej chémie, spolupráca v oblasti výskumu materiálov uväznených v nanopóroch pomocou metódy pozitronovej anihilácie (**V. Majerník, B. Sláviková**)
- FEI STU a Medzinárodné laserové centrum – spoločné projekty, spoločné výstupy a publikácie. (**E. Majková**)
- Spoločný projekt APVV – Nanomateriály pre aplikácie v biosenzoroch
- Katedra fyziky FEI STU, Bratislava
- Katedra jadrovej fyziky a biofyziky FMFI, Bratislava
- Katedra experimentálnej fyziky FMFI, Bratislava (**V. Nádaždy**)
- Uni. A.Dubčeka, Trenčín (cez spol. Pracovisko ÚACh SAV-TUAD „VILA“) – P. Butvin

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

6.3. Iná činnosť využiteľná pre potreby spoločenskej praxe

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

7.1. Spoločné pracoviská s aplikačnou sférou

7.2. Kontraktový – zmluvný výskum (vrátane zahraničných kontraktov)

7.3. Iná činnosť využiteľná pre potreby hospodárskej praxe

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

8.1. Členstvo v poradných zboroch Národnej rady SR, vlády SR, ministerstiev SR

Tabuľka 8a Členstvo v poradných zboroch Národnej rady SR, vlády SR, ministerstiev SR

Meno pracovníka	Názov orgánu	Funkcia
Doc. RNDr. Emil Běták, DrSc., FInstP.	Pracovná skupina pre fyziku a vedy o Zemi a vesmíre Akreditačnej komisie	člen
RNDr. Stanislav Dubnička, DrSc.	vláda SR	Splnomocnený zástupca vlády SR v SUJV Dubna
Ing. Štefan Gmuca, CSc.	Národný tím technických expertov pre posudzovanie tovarov a technológií dvojakeho použitia a vojenského materiálu	člen
RNDr. Dušan Janičkovič	Podporné štruktúry APVV pre 7RP EU	Národný kontaktný bod (NCP) pre Nanovedy, nanomateriály, nové materiály a nové výrobné technológie
Prof., Ing. Štefan Luby, DrSc.	Rada vlády pre vedu a techniku	člen
	Rada vlády pre rodovú rovnosť	člen
RNDr. Eva Majková, DrSc.	Moinitorovací výbor pre vedomostnú ekonomiku	člen
Mgr. Martin Veselský, PhD.	Výbor pre spoluprácu SR s CERN (Poradný orgán MŠ SR)	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
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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

Tabuľka 9a Vedecko-popularizačná činnosť

Meno	Spoluautori	Názov	Miesto zverejnenia	Dátum
RNDr. Pavol Butvin, CSc.	koord. M.Veselský	Deň otvorených dverí	FÚ SAV	3.11.2009
RNDr. Emília Illeková, CSc., DrSc.		Deň otvorených dverí FÚ SAV	www.savba.sk	3.11.2009
RNDr. Dušan Janičkovič	Peter Lobotka	PPP projekty vo výskume	Televízia TA3, relácia Euroškolsťvo a výskum č.27/2009	7.7.2009
RNDr. Dalibor Krupa, CSc., DPhil. FInstP	M.Kireš, Z.Ješková	História a budúcnosť Science on Stage	Festival fyziky,KC SAV Smolenice 19.-22.4.2009	19.4.2009
Prof.,Ing. Štefan Luby, DrSc.		LUBY, Š: Odpovede pre TASR, 1. 6. 2009	Bratislava	1.6.2009
Prof.,Ing. Štefan Luby, DrSc.		LUBY, Š: Per aspera ad astra, Enviromagazín, 14, 2009, s.11.	Bratislava	1.1.2009
Prof.,Ing. Štefan Luby, DrSc.		LUBY, Š: Relácia o SAV pre TASR, máj 2009.	Bratislava	1.5.2009
Prof.,Ing. Štefan Luby, DrSc.		LUBY, Š: Rozhovor pre SRO o finalistoch KK vo vede a medicíne, red. M. Čabák, máj 2009.	Bratislava	1.5.2009
Prof.,Ing. Štefan Luby, DrSc.		Talkshow na vernisáži výstavy F. Ringa Čecha, Š. Luby a M. Markovič, Galéria BCPS, 26. 3. 2009.	Bratislava	26.3.2009
Prof.,Ing. Štefan Luby, DrSc.	neboli	Keď je zle, treba pridať vede, Pravda, 16. 3. 2009, s. 14 – 15, rozhovor, red. V. Jancura.	Bratislava	16.3.2009
Prof.,Ing. Štefan Luby, DrSc.	neboli	Príhovor, Slovenské zahraničie, č. 1, 2009.	nnn	1.1.2009
Prof.,Ing. Štefan Luby, DrSc.	neboli	Reminiscenie, úvaha pre bulletin	bratislava	1.2.2009

		Krišt. krídla, feb. 2009		
RNDr. Eva Majková, DrSc.		rozhovor STV2 Spravy	STV2 Spravy	1.11.2009
RNDr. Eva Majková, DrSc.		Nanočastice – atraktívne pre výskum i aplikácie (Rozhovor)	Hospodárske noviny	október 2009
RNDr. Eva Majková, DrSc.		Ovládanie nanočastíc otvára nové možnosti	Revue priemyslu	10.09.2009
Ing. Vojtech Nádaždy, CSc.		Prednaska na dni otvorených dverí FÚ SAV	Fyzikálny ústav	3.11.2009
Ing. Vojtech Nádaždy, CSc.		Prezentácia exponátu na noci výskumníka	obchodné centrum Avion	25.9.2009
RNDr. Štefan Olejník, DrSc.		Beseda o piatej: Veda a výskum v Bratislave - účasť v diskusnej relácii	TV Bratislava	20.11.2009
RNDr. Štefan Olejník, DrSc.		Čo sa stane, keď sa symetria skryje? (Nobelova cena za fyziku 2008) - populárna prednáška	Fyzikálny ústav SAV	29.4.2009
RNDr. Štefan Olejník, DrSc.		Čo sa stane, keď sa symetria skryje? (Nobelova cena za fyziku 2008) - populárna prednáška	Katedra fyziky FEI STU, Bratislava	17.4.2009
RNDr. Štefan Olejník, DrSc.		Editorial k téme Úroveň výstupov vedy a výskumu na Slovensku	Newsletter ARRA, roč. 3, č. 4, str. 1	2009
RNDr. Martin Plesch, PhD.	doc. František Kundracik a ďalší	Turnaj mladých fyzikov	www.tmfsrc.sk	27.4.2009
RNDr. Martin Plesch, PhD.	Kolektív riešiteľov projektu	Prednášky v rámci projektu Fyzika očami Fyzikov	Košice	15.12.2009
Ing. Peter Švec, DrSc.	P. Šebo, D. Janičkovič	Spájkovanie bez olova – Soldering without lead	časopis Zváranie – Svařování 5-6 (2009) 145-146.	2009
Ing. Peter Švec, DrSc.	Peter Švec	Štruktúrna analýza nanomateriálov difrakčnými metódami a metódami TEM	Katedra fyziky FEI STU	3.4.2009

Mgr. Mário Ziman, PhD		populárny článok "Existuje guľový blesk?"	časopis Quark, Apríl 2009	1.4.2009
Mgr. Mário Ziman, PhD		populárny článok "Je pravda, že dve kovové dosky sa vo vákuu priťahujú (aj inak ako gravitačne)?"	časopis Quark, August 2009	1.8.2009
Mgr. Mário Ziman, PhD	Peter Filip, Anton Šurda	Deň otvorených dverí FÚ SAV, diskusia	Fyzikálny ústav SAV	3.11.2009
RNDr. Eva Majková, DrSc.		Nanočastice – atraktívne pre výskum i aplikácie (Rozhovor)	Hospodárske noviny	október 2009
RNDr. Eva Majková, DrSc.		Ovládanie nanočastíc otvára nové možnosti	Revue priemyslu	10.09.2009

9.2. Vedecko-organizačná činnosť

Tabuľka 9b Vedecko-organizačná činnosť

Názov podujatia	Domáca/ medzinárodná	Miesto	Dátum konania	Počet účastníkov
17. Konferencia Slovenských Fyzikov	domáca	Fakulta matematiky, fyziky a informatiky, Univerzita Komenského v Bratislave	16.09.-19.09.2009	-
Relativistic Nuclear Physics: From Hundreds MeV to TeV	medzinárodná	Kongresové centrum "Akadémia & quot;, Stará Lesná, Slovensko	05.06.-11.06.2009	-
Hadron Structure '09	medzinárodná	HOTEL RYSY, Tatranská Štrba, Slovenská Republika	30.08.-03.09.2009	-
Progress in Applied Surface, Interface and Thin Film Science 2009 (SURFINT – SREN II)	medzinárodná	Florenca, Taliansko	15.11.-20.11.2009	100

9.3. Účasť na výstavách

Centrá excelentnosti, vytvorené v rámci výziev operačného programu Výskum a vývoj Štrukturálnych fondov EÚ sa zúčastnili na výstave, organizovanej ASFEU počas Týždňa vedy a techniky v areáli Incheby.

9.4. Účasť v programových a organizačných výboroch národných konferencií

Tabuľka 9c Programové a organizačné výbory národných konferencií

Typ výboru	Programový	Organizačný	Programový i organizačný
Počet členstiev	0	0	2

9.5. Členstvo v redakčných radách domácich časopisov

Prof. RNDr. Vladimír Bužek, DrSc.

Acta Physica Slovaca (funkcia: editor)

RNDr. Dalibor Krupa, CSc., DPhil. FInstP

Obzory matematiky, fyziky a informatiky (funkcia: člen)

9.6. Činnosť v domácich vedeckých spoločnostiach

Mgr. Erik Bartoš, PhD.

Slovenská fyzikálna spoločnosť (funkcia: člen)

RNDr. Pavol Butvin, CSc.

Slovenská fyzikálna spoločnosť (funkcia: člen)

RNDr. Beata Butvinová, CSc.

Slovenská fyzikálna spoločnosť (funkcia: člen)

Prof. RNDr. Vladimír Bužek, DrSc.

Učená spoločnosť SAV (funkcia: predseda)

RNDr. Stanislav Dubnička, DrSc.

Slovenska fyzikalna spolocnost (funkcia: clen)

Ing. Štefan Gmuca, CSc.

Slovenská fyzikálna spoločnosť (funkcia: revízna komisia)

RNDr. Katarína Gmucová, CSc.

Slovenská fyzikálna spoločnosť (funkcia: člen)

RNDr. Emília Illeková, CSc., DrSc.

Slovenská fyzikálna spoločnosť (funkcia: členka, revízorka, hospodárka)

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. Dalibor Krupa, CSc., DPhil. FInstP

Slovenská fyzikálna spoločnosť (funkcia: vedecký tajomník)
Slovenská fyzikálna spoločnosť (funkcia: Vedecký sekretár)

Ing. Štefan Lányi, DrSc.

Slovenská fyzikálna spoločnosť (funkcia: člen)

Prof., Ing. Štefan Luby, DrSc.

Učená spoločnosť SAV (funkcia: člen)

Prof., RNDr. Eva Majerníková, DrSc.

Slovenská fyzikálna spoločnosť (SFS) (funkcia: členka)

RNDr. Štefan Olejník, DrSc.

Učená spoločnosť SAV (funkcia: člen)
JSMF (funkcia: člen)

Prof. Ing. Ivan Štich, DrSc.

Učená spoločnosť SAV (funkcia: člen)

Ing. Peter Švec, DrSc.

Učená spoločnosť SAV (funkcia: člen)

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

Deň otvorených dverí na Fyzikálnom ústave SAV

V utorok 3. novembra 2009 prebehol na Fyzikálnom ústave SAV v rámci Týždňa vedy a techniky tradičný Deň otvorených dverí. V priebehu dňa medzi 9:00 - 15:00 h nás navštívilo viac než 10 skupín z bratislavských aj mimobratisklavských stredných škôl, súhrnne možno počet návštevníkov odhadnúť na približne tri stovky. Z mimobratisklavských návštevníkov možno spomenúť návštevníkov z gymnázií a stredných škôl v Sabinove, Lipanoch, Trstenej, Komárna, Piešťan, Trnavy a Senice. O hojnú účasť mimobratisklavských návštevníkov sa pričínala aj finančná podpora poskytnutá z projektu "Fyzika očami fyzikov".

V prednáškovej miestnosti Pavilónu Kvantovej Informácie odznali prednášky

I. Štich - Nanotechnológie on-line

V. Nádaždy - Fotovoltaika - perspektívny spôsob získania energie.

S. Hlaváč - Jadrová fyzika dnes a zajtra

V. Bužek - Kvantové merania

V priebehu podujatia boli prezentované nasledovné laboratória a ukážky

Laboratórium röntgenovej difrakcie (Jergel, Dobročka)

Laboratórium nových mikroskopíí (Lányi)

Elektrochémia v nanoškále (Gmucová)

Laboratórium štruktúry a kinetiky fázových prechodov (Švec)

Výpočtový klaster (Krajčí)

Laboratórium termickej analýzy (Švec jr.)

Technológia kovových skiel (Janičkovič)

Laboratórium magnetizmu kovov (Butvin)

Laboratórium termofyzikálnych meraní (Kubičár)

Laboratórium pozitronovej anihilácie (Šauša)

Elektrostatický urýchľovač častíc (Šauša)

Röntgenovo-fluorescenčná analýza (Kliman, Siváček)

Exotické jadrá - skúmanie bielych miest na mape (Veselský)

Laboratórium kinetickej a termodynamickej analýzy (Illeková)

Prebiehala tiež interaktívna diskusia s odborníkmi z Fyzikálneho ústavu SAV (Filip, Šurda, Ziman) o aktuálnych otázkach fyziky.

Celkove možno konštatovať, že Deň otvorených dverí na Fyzikálnom ústave SAV prebehol úspešne a prispel k popularizácii fyziky, vedy a špecificky Fyzikálneho ústavu SAV vo verejnosti, hlavne medzi stredoškolskou mládežou, v radoch ktorej by mala vyrásť nová generácia slovenských vedcov, schopná prispieť k úspešnému presadeniu sa Slovenska v podmienkach globalizovaného sveta. Záverom ďakujeme predsedníctvu SAV za poskytnutú finančnú podporu.

10. Činnosť knižnično-informačného pracoviska

10.1. Knižničný fond

Tabuľka 10a Knižničný fond

Knižničné jednotky spolu		10309
z toho	knihy a zviazané periodiká	10309
	audiovizuálne dokumenty	-
	elektronické dokumenty (vrátane digitálnych)	-
	mikroformy	-
	iné špeciálne dokumenty - dizertácie, výskumné správy	149
Počet titulov dochádzajúcich periodík		28
z toho zahraničné periodiká		25
Ročný prírastok knižničných jednotiek		12
v tom	kúpou	12
	darom	-
	výmenou	-
	bezodplatným prevodom	-
Úbytky knižničných jednotiek		-
Knižničné jednotky spracované automatizovane		1126

10.2. Výpožičky a služby

Tabuľka 10b Výpožičky a služby

Výpožičky spolu		1370
z toho	odborná literatúra pre dospelých	30
	výpožičky periodík	240
	prezenčné výpožičky	1100
MVS iným knižniciam		65
MVS z iných knižníc		220
MMVS iným knižniciam		-
MMVS z iných knižníc		-
Počet vypracovaných bibliografií		-
Počet vypracovaných rešerší		2

10.3. Používatelia

Tabuľka 10c Užívatelia

Registrovaní používatelia	82
---------------------------	----

Návštevníci knižnice spolu (bez návštevníkov podujatí)	180
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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 €	

10.5. Iné informácie o knižničnej činnosti

11. Aktivity v orgánoch SAV

11.1. Členstvo vo Výbore Snemu SAV

11.2. Členstvo v Predsedníctve SAV a vo Vedeckej rade SAV

Prof.,Ing. Štefan Luby, DrSc.

- člen VR SAV
- predseda SAV

RNDr. Eva Majková, DrSc.

- člen VR SAV
- podpredseda pre vedu a výskum

11.3. Členstvo vo vedeckých kolégiách SAV

Doc. RNDr. Emil Běták, DrSc., FInstP.

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

11.4. Členstvo v komisiách SAV

Ing. Štefan Lányi, DrSc.

- Komisia pre duševné vlastníctvo (patenty a autorské práva) (člen)

RNDr. Eva Majková, DrSc.

- Komisia SAV pre vednú politiku a prognózy vývoja vedy a spoločnosti (predseda)
- Rada programu centier excelentnosti SAV (člen)
- Rada SAV pre vzdelávanie a vedeckú výchovu (člen)

RNDr. Štefan Olejník, DrSc.

- Akreditačná komisia SAV (člen, predseda AK I. OV)
- Komisia SAV pre informačné a komunikačné technológie (člen)

11.5. Členstvo v orgánoch VEGA

RNDr. Ladislav Šamaj, DrSc.

- Komisia pre matematické vedy, počítačové vedy a informatiku a fyzikálne vedy (člen)

Ing. Peter Švec, DrSc.

- komisia č. 1 (člen)

12. Hospodárenie organizácie

12.1. Náklady PO SAV

Tabuľka 12a Náklady PO SAV (v €)

Kategória	Plán na rok 2009 (posl. uprav.)	Skutočnosť k 31.12.2009 celkom	z toho:	
			z príspevku	z vlastných zdrojov
Kapitálové výdavky	188918	463179	188918	274262
Náklady spolu:	1570462	2482713	1570462	912251
z toho:				
- mzdové náklady (účet 521)	881998	1117599	881998	235601
- odvody do poisťovní a NÚP (účet 524-525)	286611	358038	286611	71427
- vedecká výchova	61274	81318	61274	20044
- náklady na projekty (VEGA, APVT, APVV, ŠPVV, MVTP, ESF a i.)	239571	782855	239571	543284
- náklady na vydávanie periodickej tlače	13178	13178	13178	0

12.2. Tržby PO SAV

Tabuľka 12b Tržby PO SAV (v €)

Kategória	Plán na rok 2009	Plnenie k 31.12.2009
Výnosy spolu:	2138780	2570491
z toho:		
- príspevok na prevádzku (účet 691)	1570462	1570462
- vlastné tržby spolu:	613318	1000029
z toho:		
- tržby za nájomné	66387	48133
- tržby za riešenie projektov (tuzemských + zahraničných, z účtu 64)	546931	951896

13. Nadácie a fondy pri organizácii SAV

14. Iné významné činnosti organizácie SAV

15. Vyznamenania, ocenenia a ceny udelené pracovníkom organizácie v roku 2009

15.1. Domáce ocenenia

15.1.1. Ocenenia SAV

15.1.2. Iné domáce ocenenia

Illeková Emília

Medaila Slovenskej fyzikálnej spoločnosti (SFS)

Oceňovateľ: Valné zhromaždenie SFS

Lányi Štefan

Čestný člen Slovenskej fyzikálnej spoločnosti

Oceňovateľ: Výbor SFS

Opis: Za významný prínos v oblasti rozvoja fyziky na Slovensku

Luby Štefan

Archeologický ústav SAV zlatá medaila

Oceňovateľ: Archeologický ústav SAV

Luby Štefan

Jeseniova fakulta UK v Martine, medaila fakulty

Oceňovateľ: Jeseniova fakulta UK

Majerníková Eva

Cena SFS

Oceňovateľ: SFS

15.2. Medzinárodné ocenenia

Lipták Ľudovít

Cena Vaclava Votrubu

Oceňovateľ: Dopplerov institut, Ceska republika

Opis: cena za najlepší dizertacnú prácu z teoretickej fyziky

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):

D. Haasová		59410501
Ing. J. Kováčová	(zodpovedná za finančné údaje)	59410578
J. Kolláriková		59410535
Mgr. M. Veselský, PhD.	(zodpovedný za odborný obsah)	59410532
B. Številová, prom. knih.	(zodpovedná za bibliografické údaje)	59410509

Prof. Ing. Ivan Štich, DrSc., riaditeľ ústavu, tel. 59410500

Schválené VR FÚ SAV dňa 19.1.2010
Ing. Vojtech Nádaždy, CSc., predseda vedeckej rady

Prílohy

Príloha A

Zoznam zamestnancov a doktorandov organizácie k 31.12.2009

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

	Meno s titulmi	Úväzok (v %)	Riešiteľská kapacita (v hod/rok)
Vedúci vedeckí pracovníci DrSc.			
1.	Doc. RNDr. Emil Běták, DrSc.	100	2000
2.	Prof. RNDr. Vladimír Bužek, DrSc.	100	2000
3.	RNDr. Stanislav Dubnička, DrSc.	100	2000
4.	RNDr. Mária Hartmanová, DrSc.	50	1000
5.	RNDr. Emília Illeková, DrSc.	100	2000
6.	Ing. Matej Jergel, DrSc.	100	2000
7.	RNDr. Marián Krajčí, DrSc.	100	2000
8.	Ing. Ľudovít Kubičár, DrSc.	100	2000
9.	Ing. Štefan Lányi, DrSc.	100	2000
10.	Prof., Ing. Štefan Luby, DrSc.	100	2000
11.	Prof., RNDr. Eva Majerníková, DrSc.	50	1000
12.	RNDr. Eva Majková, DrSc.	60	1200
13.	Ing. Miroslav Morháč, DrSc.	100	2000
14.	RNDr. Miroslav Nagy, DrSc.	100	2000
15.	RNDr. Štefan Olejník, DrSc.	100	2000
16.	RNDr. Ladislav Šamaj, DrSc.	100	2000
17.	Prof. Ing. Ivan Štich, DrSc.	100	2000
18.	Ing. Peter Švec, DrSc.	100	2000
Vedúci vedeckí pracovníci CSc., PhD.			
1.	RNDr. Stanislav Hlaváč, CSc.	100	2000
2.	Ing. Ján Kliman, CSc.	100	2000
3.	Ing. Jozef Krištiak, CSc.	75	1500
4.	RNDr. Dalibor Krupa, CSc.	75	1500
5.	RNDr. Peter Mrafko, CSc.	75	1500
6.	Prof., RNDr. Milan Ožvold, CSc.	25	500
7.	RNDr. Anton Šurda, CSc.	75	1500
8.	RNDr. Gabriel Vlasák, CSc.	35	700
Samostatní vedeckí pracovníci			

1.	Ing. Vlastimil Boháč, CSc.	100	2000
2.	RNDr. Juraj Boháčik, CSc.	75	1500
3.	RNDr. Pavol Butvin, CSc.	100	2000
4.	RNDr. Beata Butvinová, CSc.	100	2000
5.	Mgr. Peter Filip, PhD.	100	2000
6.	Ing. Štefan Gmuca, CSc.	100	2000
7.	RNDr. Katarína Gmucová, CSc.	100	2000
8.	Ing. Ján Ivančo, CSc.	100	2000
9.	RNDr. Pavol Kalinay, CSc.	100	2000
10.	RNDr. Miroslav Kolesík, CSc.	0	0
11.	RNDr. Ludovit Malinovsky, CSc.	100	2000
12.	RNDr. Lubomir Martinovič, CSc.	100	2000
13.	Ing. Vladislav Matoušek, CSc.	100	2000
14.	RNDr. Marek Mihalkovič, CSc.	100	2000
15.	Ing. Vojtech Nádaždy, CSc.	100	2000
16.	RNDr. Emil Pinčík, CSc.	100	2000
17.	RNDr. Martin Plesch, PhD.	100	2000
18.	RNDr. Ondrej Šauša, CSc.	100	2000
19.	Dr.Rer.Nat. Peter Šiffalovič, PhD.	100	2000
20.	Ing. Igor Travěnec, CSc.	100	2000
21.	Ing. Ivan Turzo, CSc.	75	1500
22.	Mgr. Martin Veselský, PhD.	100	2000
23.	Mgr. Mário Ziman, PhD	100	2000
Vedeckí pracovníci			
1.	Mgr. Cyril Adamuščin, PhD.	100	2000
2.	Mgr. Erik Bartoš, PhD.	100	2000
3.	RNDr. Róbert Brunner, CSc.	100	2000
4.	RNDr. René Derian, PhD.	100	2000
5.	Andrej Gendiar	45	900
6.	Mgr. Livia Chitu	100	2000
7.	Mgr. Lubos Krupa, PhD.	0	0
8.	RNDr. Igor Maťko, CSc.	100	2000
9.	Mgr. Daniel Nagaj, PhD.	100	2000
10.	Ing. Mgr. Peter Staňo, PhD.	0	0
11.	Ing. Vladimír Štofánik	50	1000

12.	Mgr. Jana Takáčsová, PhD.	0	0
13.	Ing. Viliam Vretenár	50	1000
14.	Ing. Martin Weis, PhD.	100	2000
Odborní pracovníci s VŠ vzdelaním			
1.	Mgr. Ján Brndiar, PhD.	100	2000
2.	MSc. Carlos Calvo Anibarro	100	2000
3.	Ing. Matúš Dubecký	5	2000
4.	Ing. Danica Fidiríková	5	2000
5.	Mgr. Yuryi Halahovets	100	2000
6.	Jozef Hoško	100	2000
7.	Mgr. Martina Iskrová	5	2000
8.	RNDr. Dušan Janičkovič	100	2000
9.	Ing. Mária Jusková	35	700
10.	Ing. Lucia Kičinová	5	2000
11.	Ing. Jana Kováčová	100	0
12.	Mgr. Andrej Liptaj	100	2000
13.	Mgr. Ľudovít Lipták	100	2000
14.	Mgr. Viktor Majerník	5	2000
15.	Mgr. Kristian Petrík	5	2000
16.	RNDr. Daniel Reitzner	5	2000
17.	Ing. Jaroslav Rusnák	100	2000
18.	Tomáš Rybár	5	2000
19.	Mgr. Michal Sedlák, PhD.	100	2000
20.	Ing. Rudolf Senderák	100	2000
21.	Mgr. Barbora Slavikova	5	2000
22.	Pavol Surovec	100	2000
23.	Mgr. Ursula Szaboova	75	0
24.	Prom. knih. Božena Številová	50	0
25.	Ing Peter, ml. Švec	5	2000
26.	RNDr. Robert Turanský, PhD.	100	2000
27.	Mgr. Karol Végső	5	2000
28.	Ing. Martina Zemanová	100	2000
29.	Ing. Marta Zofčáková	65	0
Odborní pracovníci ÚSV			
1.	Marta Bubničová	100	0

2.	Ľubomír Dostál	100	2000
3.	Dana Haasová	100	0
4.	Karol Hajdu	0	0
5.	Michal Halász	100	0
6.	Emília Hoffmanová	100	0
7.	Alena Janičinová	100	0
8.	Jana Koláriková	100	0
9.	Jana Kúkelová	100	0
10.	Marian Markovič	100	2000
11.	Oľga Obrovac	20	400
12.	Vladimír Palanský	100	0
13.	Ružena Palovská	100	0
14.	Gustáv Pomšár	100	0
15.	Miroslav Popelák	100	0
16.	Mária Reháková	100	2000
17.	Mária Zubeková	50	1000
18.	Jana Zvončeková	100	0

Zoznam doktorandov

	Meno s titulmi	Škola/fakulta	Štúdiijný odbor
Interní doktorandi hradení z prostriedkov SAV			
1.	Mgr. Martina Berešová	Fakulta matematiky, fyziky a informatiky UK	4.1.5: jadrová a subjadrová fyzika
2.	Ing. Matúš Dubecký	Fakulta matematiky, fyziky a informatiky UK	4.1.2: všeobecná fyzika a matematická fyzika
3.	Mgr. Martina Iskrová	Fakulta matematiky, fyziky a informatiky UK	4.1.5: jadrová a subjadrová fyzika
4.	Mgr. Viktor Majerník	Fakulta matematiky, fyziky a	4.1.5: jadrová a subjadrová fyzika

		informatiky UK	
5.	Mgr. Kristian Petřík	Fakulta matematiky, fyziky a informatiky UK	4.1.5: jadrová a subjadrová fyzika
6.	Mgr. Peter Rapčan	Fakulta matematiky, fyziky a informatiky UK	4.1.2: všeobecná fyzika a matematická fyzika
7.	Mgr. Daniel Reitzner	Fakulta matematiky, fyziky a informatiky UK	4.1.2: všeobecná fyzika a matematická fyzika
8.	Mgr. Ivan Siváček	Fakulta matematiky, fyziky a informatiky UK	4.1.5: jadrová a subjadrová fyzika
9.	Mgr. Peter Švec ml.	Fakulta matematiky, fyziky a informatiky UK	4.1.3: fyzika kondenzovaných látok a akustika
10.	Mgr. Karol Végso	Fakulta matematiky, fyziky a informatiky UK	4.1.4: kvantová elektronika a optika
Interní doktorandi hrazení z iných zdrojov			
1.	Ing. Danica Fidříková	Fakulta elektrotechniky a informatiky STU	5.2.48: fyzikálne inžinierstvo
2.	Mgr. Lucia Kičínová	Fakulta matematiky, fyziky a informatiky UK	4.1.2: všeobecná fyzika a matematická fyzika
3.	Mgr. Tomáš Rybár	Fakulta matematiky, fyziky a informatiky UK	4.1.2: všeobecná fyzika a matematická fyzika
Externí doktorandi			
<i>organizácia nemá externých doktorandov</i>			

Príloha B

Projekty riešené v organizácii

Medzinárodné projekty

Programy: 5RP

1.) Oxide Sensors for Chemicals Detection (*Oxide Sensors for Chemicals Detection*)

Zodpovedný riešiteľ: Štefan Luby
Trvanie projektu: 1.1.2007 / 30.4.2009
Evidenčné číslo projektu: Luches,NATO CLG 982748
Organizácia je koordinátorom projektu: nie
Koordinátor: Prof. Aramando Luches, Uni. Salento, Lecce
Čerpané financie: 664 €

Dosiahnuté výsledky:

Zhotovili sa funkčné senzory plynov CO a NO₂ na báze nanočastíc CoFe₂O₄, ktoré pracujú pri teplotách 325°C a majú citlivosť 20 až 100 ppm.

Programy: 6RP

2.) Európske zariadenie na on-line separáciu rádioaktívnych iónových zväzkov (*European Isotope Separation On-Line Radioactive Ion Beam Facility*)

Zodpovedný riešiteľ: Emil Běták
Trvanie projektu: 1.2.2005 / 31.7.2009
Evidenčné číslo projektu: 515768
Organizácia je koordinátorom projektu: nie
Koordinátor: Fortuna Graziano, INFN Legnaro, Blumenfeld Yorick, GANIL Caen/CERN
Počet spoluriešiteľských inštitúcií: 23
Čerpané financie: EC - 21742 €

Dosiahnuté výsledky:

Podielali sme sa na dizajnovej studii projektu EURISOL, ktorá specifikovala fyzikálne a technické parametre zariadenia. Aktivne sme skúmali mechanizmus izospinového zrovnovážovania v reakciách ťazkých iónov.

3.) Qubitové aplikácie (*Qubit applications*)

Zodpovedný riešiteľ: Vladimír Bužek
Trvanie projektu: 1.11.2005 / 31.10.2009
Evidenčné číslo projektu: IST-CT-2005-015848
Organizácia je koordinátorom projektu: nie
Koordinátor: Prof. Martin Plenio (Imperial College, London), Prof. Ian Walmsley (Oxford University)
Počet spoluriešiteľských inštitúcií: 34 - Austrália: 2, Rakúsko: 1, Belgicko: 1, Kanada: 1, Nemecko: 5, Dánsko: 1, Španielsko: 2, Francúzsko: 2, Veľká Británia: 7, Švajčiarsko: 3, Izrael: 1, Taliansko: 3, Holandsko: 1, Poľsko: 2, Švédsko: 2
Čerpané financie: EU - 42684 €, MVTS - 8531 €

4.) Kvantová informácia – spracovanie a komunikácia v Európe (*Quantum Information Processing and Communication in Europe*)

Zodpovedný riešiteľ: Vladimír Bužek
Trvanie projektu: 1.1.2006 / 31.12.2009
Evidenčné číslo projektu: FP-2002
Organizácia je koordinátorom projektu: nie
Koordinátor: Prof. Eugene Polzik (Copenhagen)
Počet spoluriešiteľských inštitúcií: 33 - Rakúsko: 2, Belgicko: 1, Česko: 1, Nemecko: 4, Dánsko: 2, Španielsko: 1, Fínsko: 1, Francúzsko: 3, Veľká Británia: 4, Švajčiarsko: 3, Izrael: 1, Taliansko: 5, Holandsko: 2, Poľsko: 1, Švédsko: 2
Čerpané financie: EU - 4800 €, MVTS - 896 €

5.) Nové štruktúry s 2D súbormi nanočastíc (*Novel structures with 2D nanoparticle arrays*)

Zodpovedný riešiteľ: Eva Majková
Trvanie projektu: 1.1.2008 / 31.12.2011
Evidenčné číslo projektu: II-20080036 EC
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Čerpané financie: DESY - 2500 €, MVTS - 3319 €

Dosiahnuté výsledky:

Pripravili sme a analyzovali metódou GISAXS multivrstvové štruktúry W/B4C a La/B4C v as deposited stave ako aj po tepelnom spracovaní. Výsledky boli prezentované na 3 medzinárodných konferenciách.

S použitím nami modifikovanej Langmuir Blodgettovej metódy sme pripravili usporiadané nanočasticové monovrstvy a multivrstvy a ich usporiadanosť sme potvrdili metódou GISAXS.

Skúmali sme efekt reasemblingu spôsobeného fotolýzou surfaktantu nanočastíc v usporiadanej nanočasticovej monovrstve a multivrstve (4 CC publikácie).

Programy: Medziakademická dohoda (MAD)

6.) *(Microstructure, magnetic and magnetoresistance properties relationship in multilayered system with alternating anisotropies)*

Zodpovedný riešiteľ: Eva Majková
Trvanie projektu: 1.1.2007 / 31.12.2009
Evidenčné číslo projektu: 34
Organizácia je koordinátorom projektu: nie
Koordinátor:
Počet spoluriešiteľských inštitúcií: 0

Dosiahnuté výsledky:

V rámci spolupráce sme pripravili magnetické multivrstvy a skúmali koreláciu medzi štruktúrou a magnetickými vlastnosťami. Preskúmali sme vývoj magnetizácie v závislosti od teplotného spracovania pre Co/C multivrstvy s hrúbkami Co vrstiev pod 1 nm. Ukázali sme že Co vrstvy sú tvorené Co klastrami.

7.) *(Magnetoelastic and magnetoelectric effects in soft-magnetic amorphous and nanocrystalline alloys)*

Zodpovedný riešiteľ: Gabriel Vlasák
Trvanie projektu: 1.1.2007 / 31.12.2009
Evidenčné číslo projektu: 11
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0

Dosiahnuté výsledky:

Štúdium dynamiky domén vo feromagnetickom a paramagnetickom stave v okolí Curieho teploty pomocou MOKE, meraní magnetostrikcie a meraní magnetických vlastností na systémoch Fe-Ni-Nb-B a Fe-Co-Mo-Cu-B. Výsledky boli prezentované na dvoch konferenciách a v dvoch publikáciách.

Programy: Medziústavná dohoda

8.) Relativistická jadrová fyzika (*Experimentálna fyzika relativistických ťažkých a ľahkých ionov*)

Zodpovedný riešiteľ: Ján Kliman
Trvanie projektu: 1.1.2009 / 1.1.2011
Evidenčné číslo projektu: 3983-1-09/11
Organizácia je koordinátorom projektu: nie
Koordinátor: Malachov A.I., Prof., DrSc.
Počet spoluriešiteľských inštitúcií: 0

Programy: Medzivládna dohoda

9.) Pokročilé metódy rastrovacej sondovej mikroskopie na analýzu defektov v perspektívnych anorganických a organických polovodičoch a nanoštruktúrach (*Advanced Scanning Probe Microscopy methods for analysis of defects in prospective inorganic and organic semiconductors and nanostructures*)

Zodpovedný riešiteľ: Štefan Lányi
Trvanie projektu: 1.5.2009 / 30.6.2011
Evidenčné číslo projektu: SK-IT-0020-08
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: 1261 €

Dosiahnuté výsledky:

Uskutočnili sa analýzy kremíkových vzoriek obsahujúcich kvantové bodky pomocou rastrovacieho kapacitného mikroskopu s cieľom študovať možnosť zviditeľnenia malých nehomogenít v rôznych hĺbkach pod povrchom. Ďalším cieľom bolo ocenenie šumu mikroskopu na partnerskom pracovisku a posúdenie možnosti jeho adaptácie na lokálnu spektroskopiu hlbokých hladín.

10.) Kapacitný spektrometer s vysokou citlivosťou na vyšetrovanie elektrických charakteristík a porách v polovodičových kvantových štruktúrach (*Increased sensitivity capacitance spectrometer for investigation of electrical characteristics and defects in semiconductor quantum structures*)

Zodpovedný riešiteľ: Štefan Lányi
Trvanie projektu: 1.5.2009 / 31.12.2010
Evidenčné číslo projektu: SK-HU-0024-08
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 1 - Maďarsko: 1

inštitúcií:

Čerpané financie: 1295 €

Dosiahnuté výsledky:

Bol vyvinutý a na partnerskom pracovisku do kryostatu fy. Semilab nainštalovaný modul, umožňujúci zvýšiť citlivosť snímania kapacity (200 x) a prúdu (1000 - 10000 x), a pohyb sondy. Začalo sa testovanie vhodnosti usporiadania na lokálnu kapacitnú spektroskopiu hlbokých hladín v polovodičoch.

11.) Vytvorenie elektronickej aparatury pracujúcej vo vysokom vákuu urýchľovača

Nuclotrón (*Creation of electronic equipment working in high vacuum of the Nuclotron accelerator*)

Zodpovedný riešiteľ: Miroslav Morháč
Trvanie projektu: 1.1.2009 / 31.12.2011
Evidenčné číslo projektu: 08626319/092015-74
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 1 - Rusko: 1

12.) Charakterizácia systému typu FINEMET pre aplikácie vo výkonovej energetike

(*Production and characterization of FINEMET type alloys for transformer core applications*)

Zodpovedný riešiteľ: Peter Švec
Trvanie projektu: 1.1.2009 / 31.12.2010
Evidenčné číslo projektu:
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0

Dosiahnuté výsledky:

Optimalizovali sme štruktúru systému FINEMET substitúciou Mo za Nb s cieľom získať nanokryštalický magneticky mäkký materiál s vylepšenými vlastnosťami a nižšou cenou (1 CC publ., školenie zahraničnej doktorandky).

Programy: COST

13.) Vysokoteplotné spájkovacie materiály - fundamentálne vlastnosti, design a príprava

(*Advanced Solder Materials for High-Temperature Application – their nature, design, process and control in a multiscale domain*)

Zodpovedný riešiteľ: Dušan Janičkovič
Trvanie projektu: 1.5.2007 / 31.5.2011
Evidenčné číslo projektu: COST MP0602
Organizácia je nie

koordinátorom projektu:

Koordinátor: Dr. Aleš Kroupa, IPM CAS, Brno
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: MVTS - 3319 €

Dosiahnuté výsledky:

CC-publikácie:

1.ŠEBO, P., ŠVEC, P., JANIČKOVIČ, D., ILLEKOVÁ, M.: Influence of indium and copper in Sn3.5Ag0.4CuIn solder on its interaction with copper.

Kovove Mater. 47, 2009,275-282

2.ŠEBO, P., MOSER, Z., ŠVEC, P., JANIČKOVIČ, D., DOBROČKA, E., GASIOR, W., PSTRUŽ, J.: Effect of indium on the microstructure of the interface between Sn3.13Ag0.74CuIn solder and Cu substrate.

J. Alloys and Compounds 480 (2009) 409-415

14.) Elektromagnetické spracovanie materiálov (*Electromagnetic Processing of Materials (EPM)*)

Zodpovedný riešiteľ: Peter Švec
Trvanie projektu: 1.5.2004 / 31.12.2009
Evidenčné číslo projektu: P17
Organizácia je koordinátorom projektu: nie
Koordinátor:
Počet spoluriešiteľských inštitúcií: 0

Dosiahnuté výsledky:

Teoreticky sme analyzovali vplyv elektrického a magnetického poľa na vlastnosti a vývoj štruktúry metastabilných materiálov a experimentálne sme výsledky potvrdili na systémoch na báze Fe a na báze Al.

Programy: European Science Foundation (ESF)

15.) Metódy Integrovaťelných Systémov, Geometrie, Aplikovanej Matematiky (*Methods of Integrable Systems, Geometry, Applied Mathematics*)

Zodpovedný riešiteľ: Ladislav Šamaj
Trvanie projektu: 1.7.2004 / 31.7.2009
Evidenčné číslo projektu: CBP.EAPCLG 981471
Organizácia je koordinátorom projektu: nie
Koordinátor: Prof. Boris Dubrovin
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: European Science Foundation - 2800 €

Dosiahnuté výsledky:

V oblasti systémov nabitých častíc interagujúcich elektro-magneticky sme vyšetrovali korelačné funkcie povrchového náboja na rozhraní medzi dvomi médiami s rôznymi dielektrickými funkciami. Tieto korelačné funkcie vykazujú d'alekodosahové správanie, pričom prefaktor závisí od použitej (klasikkej alebo kvantovej) fyzikálnej teórie. Bolo ukázané, že zahrnutie retardačných efektov mení kvantovú mechaniku na klasickú.

Počet vyjdených publikácií: 3

Počet zaslaných publikácií: 1

Programy: CERN/MŠ

16.) CERN - ISOLDE (*CERN - ISOLDE*)

Zodpovedný riešiteľ: Martin Veselský
Trvanie projektu: 1.1.2009 / 31.12.2013
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 - 9958 €

Dosiahnuté výsledky:

V roku 2009 boli realizované dva experimenty. Prvým (IS456) bolo meranie polomerov náboja neutrónovo deficitných jadier polónia. Týmto meraním sa môže získať priama informácia o zmene tvarov jadra, čo je dôležité najmä z hľadiska fenoménu tvarovej ko-existencie ktorá existuje v tejto oblasti tabuľky izotopov. Druhým (IS469) bolo štúdium transfer reakcií pre jadrá v okolí 68Ni. Cieľom experimentu bolo získať informácie o nízkoležiacich vzbuđených hladinách izotopov v okolí jadra 68Ni. Práve pomocou spektroskopie jadier s nepárnou hmotnosťou v okolí jadra 68Ni a lokalizácie jeho nízkoležiacich orbitalov nad fermiho hladinou by malo napomôcť lokalizovať aj orbital 1g_{9/2}, ktorý definuje vrstvu N = 40. Ako prvé meranie sa uskutočnilo štúdium izotopu 67Ni, ktorý bol produkovaný s využitím (d,p) transfer reakcie. V rámci experimentu IS466 "Identification and systematical studies of the Electron-Capture Delayed Fission (ECDF) in the lead region", bola vykonaná experimentálna analýza a bolo potvrdený nový asymetrický mód štiepenia, pozorovaný pre 180Hg v procese oneskoreného štiepenia po elektrónovom záchyťe jadra 180Tl.

Programy: 7RP

17.) (*Hybrid Information Processing*)

Zodpovedný riešiteľ: Vladimír Bužek
Trvanie projektu: 1.11.2008 / 31.10.2011
Evidenčné číslo projektu: EU STREP 221889
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 8 - Austrália: 1, Rakúsko: 1, Nemecko: 1, Veľká Británia: 2,

inštitúcií: Taliansko: 2, Japonsko: 1
Čerpané financie: EU + APVV - 81000 €,
MVTS - 14406 €

Programy: International Visegrad Found (IVF)

18.) Kvantové technológie vo V4 (*Quantum Technologies in V4*)

Zodpovedný riešiteľ: Martin Plesch
Trvanie projektu: 1.12.2008 / 30.11.2009
Evidenčné číslo projektu:
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 5 - Česko: 3, Maďarsko: 1, Poľsko: 1
Čerpané financie: IVF - 9800 €

Dosiahnuté výsledky:

Boli zorganizované dve konferencie, šiesty ročník CEQIP workshopu a prvý ročník letnej školy v kvantovej informácii.

Programy: Multilaterálne - iné

19.) Nanoštruktúry pre spintroniku a iné aplikácie (*Nanostructures for spintronics and other applications*)

Zodpovedný riešiteľ: Matej Jergel
Trvanie projektu: 1.1.2008 / 31.12.2010
Evidenčné číslo projektu: 2007-009-SK
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 1 - Rumunsko: 1
Čerpané financie: SAV - 32198 €

Dosiahnuté výsledky:

- boli študované procesy ozonolýzy a fotolýzy surfaktantu na usporiadaných vrstvách nanočastíc typu jadro-obal; na monovrstvách bola zistená aglomerácia nanočastíc do klastrov s labyrintovou štruktúrou, pričom ozón tento proces urýchľuje a typ podložky alebo prítomnosť vonkajšieho magnetického poľa nehrá zásadnú rolu; na multivrstvách dochádza len k redukcii medzičasticovej vzdialenosti bez zmeny laterálneho usporiadania v jednotlivých vrstvách
- metódou lift-off boli úspešne pripravené pilotné nanoštruktúry z polystyrénových nanočastíc (až do 350 nm) preparených kobaltom na kremíkových a sklených podložkách
- metódou GISAXS bol prvýkrát analyzovaný vplyv superparamagnetických Fe-O nanočastíc na morfológiu rozhraní v hybridných spinových ventiloach s tunelovou magnetorezistenciou

20.) Objemové nanoštrukturované hliníkové materiály pre použitie pri zvýšených teplotách
(Bulk nanostructured Al profiles for applications at elevated temperatures)

Zodpovedný riešiteľ: František Šimančík
Trvanie projektu: 1.1.2007 / 31.12.2010
Evidenčné číslo projektu:
Organizácia je koordinátorom projektu: nie
Koordinátor:
Počet spoluriešiteľských inštitúcií: 0

Dosiahnuté výsledky:

Detailne sme analyzovali proces transformácie v systéme Al-Ni s prídavkami Sm a kombináciou prídavkov Sm a Pd pripravenom rýchlym ochladením taveniny. Popísali a vysvetlili sme postupné formovanie nanokryštalického Al v prvej fáze transformácie a nových fáz pri kryštalizácii zbytkovej matrice počas druhého (vysokoteplotného) devitrifikačného stupňa zliatiny z hľadiska mikroštruktúry a mechanizmov riadiacich postupný vznik lamelárnych metastabilných fáz. Výsledky ukazujú, že príčinou tohto javu je lokálna heterogenita amorfnej matrice a nižšia difúzivita v nej v porovnaní so vzniknutými nanokryštalickými časticami. Súčasne sme analyzovali vývoj štruktúr a fáz vznikajúcich počas spracovania pod tlakom pri zvýšených teplotách v systémoch typu Al-Ti-Fe-Cr.

Programy: Bilaterálne - iné

21.) Laser- and LB deposited nanoparticle layers: applications in magnetic sensors and spintronics
(Laser- and LB deposited nanoparticle layers: applications in magnetic sensors and spintronics)

Zodpovedný riešiteľ: Štefan Luby
Trvanie projektu: 1.1.2009 / 31.12.2011
Evidenčné číslo projektu: APVV, SK-IT-0027-08
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 1500 €

Dosiahnuté výsledky:

Projekt sa vzhľadom na oneskorenie začiatku financovania rozbehol iba v 2. polroku 2009. Je zameraný na nanočasticové súbory pripravené metódou LB a membrány z takýchto častíc, ktoré sú samonosné a prekrývajú otvory v substrate. Taliansky partner dopĺňa tento výskum tvorbou súborou metódou MAPLE. Prvé výsledky svedčia o zvládnutí novej metódy LB pri jej aplikovaní na súbory Fe₃O₄, pričom sa preskúmalo povrchové napätie potrebné na vytvorenie súvislých súborov, ktoré ešte nevytvárajú 3D štruktúry .- klastre. Preskúmala sa možnosť prípravy súborov na Si substráty o ploche až 20 cm², pričom sa dosiahla veľmi dobrá homogenita hustoty rozloženia častíc okolo 77 – 10 %.

22.) O mechanizmoch pasivácie defektov a nízкотеплотnej oxidácie a ich aplikácia v Si slnečných článkoch (*Mechanism of defect passivation and low temperature oxidation and their application to solar cells*)

Zodpovedný riešiteľ: Emil Pinčík
Trvanie projektu: 1.4.2007 / 30.3.2009
Evidenčné číslo projektu:
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 1 - Japonsko: 1

Dosiahnuté výsledky:

V roku 2009 skončil slovensko-japonský bilaterálny projekt medzi Ú SAV a JSPS s názvom: Mechanism of defect passivation and low temperature oxidation and their application to solar cells
Výskum pasivácie defektných stavov a nízкотеплотnej oxidácie a jeho aplikácia pri vývoji solárnych článkov.

23.) (*Development of new components for X-ray diffraction an a novel (GI)SAS instrument*)

Zodpovedný riešiteľ: Peter Šiffalovič
Trvanie projektu: 1.4.2009 / 1.4.2011
Evidenčné číslo projektu: COMET K2 project A2.12
Organizácia je koordinátorom projektu: nie
Koordinátor: Materials Center Leoben Forschung GmbH
Počet spoluriešiteľských inštitúcií: 5 - Rakúsko: 2, Nemecko: 3

Dosiahnuté výsledky:

Bola začatá vzájomná spolupráca medzi fa. Bruker a Incoatec v oblasti vývoja prístrojov pre malouhlový RTG rozptyl.

Projekty národných agentúr

Programy: VEGA

1.) Jadrove reakcie pre cloveka a Europu (*Nuclear reactions for man and Europe*)

Zodpovedný riešiteľ: Emil Běták
Trvanie projektu: 1.1.2007 / 31.12.2009
Evidenčné číslo projektu: 2/7115/27
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA - 2445 €

2.) Štúdium tepelno-izolačných vlastností tepelne málo vodivých materiálov (*Study of the thermal-insulation properties of thermally low-conducting materials*)

Zodpovedný riešiteľ: Vlastimil Boháč
Trvanie projektu: 1.1.2008 / 31.12.2010
Evidenčné číslo projektu: 2/0161/08
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA - 1345 €

Dosiahnuté výsledky:

Boli odvodené ďalšie modely zohľadňujce dodatočné efekty, čím umožnili zvýšenie presnosti merania na vzorkách s nie ideálnou geometriou pri ktorej sú tieto efekty eliminované. Jednalo sa o efekty tepelnej kapacity zdroja ktoré sa uplatňujú pri tepelne málo vodivých materiáloch s nízkou objemovou hustotou a pri použití vzorky s hrúbkou ktorej hodnoty sú nižšie ako ideálna hrúbka..

3.) Skúmanie opticky aktívnych centier štruktúr na báze kremíka fotoluminiscenciou s využitím tomografického prístupu k spracovaniu dát (*Investigation of optically active centers of silicon-based structures via luminescence using tomographic approach to data processing*)

Zodpovedný riešiteľ: Róbert Brunner
Trvanie projektu: 1.1.2009 / 31.12.2011
Evidenčné číslo projektu: 2/0123/09
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA - 1000 €

Dosiahnuté výsledky:

Potvrdili sme prítomnosť dvojice čiar s blízkymi energiami vo fotoluminiscenčných spektrách tenkých vrstiev amorfného kremíka deponovaného na sklenenej podložke. Tieto čiary boli interpretované ako dôkaz prítomnosti dvoch oblastí s rôznym stupňom neusporiadanosti štruktúry, ku ktorému dochádza v procese depozície. Výsledky tiež preukazujú gaussovský profil pozorovaných čiar.

4.) Účinky makroskopických síl v magneticky mäkkých páskach (*The effects of macroscopic forces in soft-magnetic ribbons*)

Zodpovedný riešiteľ: Pavol Butvin
Trvanie projektu: 1.1.2008 / 31.12.2010
Evidenčné číslo projektu: 2/0156/08
Organizácia je koordinátorom projektu: áno

Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV - 1146 €

Dosiahnuté výsledky:

1) Magneticky mäkké pásy bez Si (napr. FeCoMoCuB) sú osobitne náchylné na ďalší vývin makroskopickej heterogenity pri teplotách potrebných na nanokryštalizáciu. Žihanie vo vákuu poskytuje lepšie možnosti pre ciele ovplyvnenie mag. vlastností, než úprava as-cast materiálu alebo nanokryštalizácia v inertnej atmosfére.

2) Overili sme, že účinky makroskopických síl, ktorým sa pri spracovaní toroidných jadier nemožno vyhnúť, sú závažné. Na rozdiel od otvorených vzoriek (pásiky), nie je hlavným zdrojom síl makroskopická heterogenita, ale najmä tepelné napätie a heterogénna zmena hustoty pri obvyklých teplotách nanokryštalizácie.

5.) Kvantové kráčania a previazanie (*Quantum walks and entanglement*)

Zodpovedný riešiteľ: Vladimír Bužek
Trvanie projektu: 1.1.2009 / 31.12.2011
Evidenčné číslo projektu: VEGA 2/0092/09
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA - 8301 €

6.) Dynamika protónmi indukovaného štiepenia ťažkých jadier (*Fission dynamics in the proton induced fission of heavy nuclei*)

Zodpovedný riešiteľ: Štefan Gmuca
Trvanie projektu: 1.1.2007 / 31.12.2009
Evidenčné číslo projektu: 2/7117/27
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: VEGA - 6418 €

Dosiahnuté výsledky:

V rámci multilaterálneho experimentu na 4[?] gama-spektrometri GAMMASPHERE boli určené výťažky trojného štiepenia ²⁵²Cf sprevádzaného emisiou ľahkého fragmentu He, Be a C. Po prvýkrát boli stanovené nezávislé výťažky pre 59 párov sekundárnych fragmentov sprevádzaných emisiou He, a pre viacero párov fragmentov sprevádzaných emisiou Be a C. Výťažky a nábojové distribúcie fragmentov boli analyzované v rámci Halpernovho „energy cost“ konceptu.

Experimentálne boli určené uhlove distribúcie spinových polarizačných charakteristík pružného rozptylu v reakcii d-p pri incidentných energiách 880 a 2000 MeV. Tieto dáta sú nutné na získanie informácie o troj-časticovej štruktúre a relativistických efektoch v málonukleónových systémoch. Výsledky sú porovnané s niekoľkými teoretickými prístupmi. Experiment prebehol na stanici

vnútorných terčov urýchľovača Nuklotrón v SÚJV Dubna.

Počet vyjdených publikácií: 3 publikácie, 7 príspevkov v konf. zborníkoch

7.) Štúdium nových materiálov pre hybridnú (anorganicko/organickú) elektroniku (*Study of novel materials for hybrid (inorganic/organic) electronics*)

Zodpovedný riešiteľ: Katarína Gmucová
Trvanie projektu: 1.1.2007 / 31.12.2009
Evidenčné číslo projektu: 2/7118/27
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA - 2323 €

Dosiahnuté výsledky:

Pentacén je známy ako organický kryštalický polovodič. My sme pripravili amorfnú tenkú vrstvu pentacénu pomocou Langmuir-Blodgettovej metódy, jej amorfný charakter sme dokázali pomocou XRD merania. Z nameraných elektrochemických údajov sme zrekonštruovali energetický pásový diagram tenkej vrstvy pentacénu pripravenej na kovovom povrchu. Popísali sme dynamiku tvorby vodíkových a hydroxylových defektov v mokrom prostredí. Ukázali sme, že Langmuir-Blodgettovej tenká vrstva je schopná viazať vodík efektívnejšie ako vrstva naparená, zdá sa preto byť vhodným materiálom na pokrytie elektród určených na uskladnenie vodíka. Na druhej strane, naparená vrstva lepšie zodpovedá požiadavke na nízku hustotu defektov, ktorá je nutná pre aplikácie v organickej elektronike.

8.) Korelácia medzi mikroskopickými a makroskopickými vlastnosťami oxidových iónových materiálov s fluoridovou štruktúrou pre moderné technológie (*Correlation between microscopic and macroscopic properties of oxide ionic materials with fluoride structure for advanced technologies*)

Zodpovedný riešiteľ: Mária Hartmanová
Trvanie projektu: 1.1.2007 / 31.12.2009
Evidenčné číslo projektu: 2/7119/27
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA - 1223 €

Dosiahnuté výsledky:

Na základe kryštalochemických výpočtov a poruchových štruktúr sme vybrali vhodné oxidové systémy pre aplikácie v palivových článkoch (SOFCs), ako dielektrické hradlá v mikroelektronike a ako ochranné vrstvy kovov proti korózii.

Najvyššie hodnoty oxidovej iónovej vodivosti, $\sim 10^{-4}$ S/cm, sa pozorovali pre polykryštalický film $\text{CeO}_2 + 12,7 \text{ mol\% Sm}_2\text{O}_3$ deponovaný na Si substrát pri 200°C a bombardovaný Ar^+ iónami počas depozície. Ar^+ bombardovanie zvyšovalo vodivosť filmov.

Pre film $\text{CeO}_2 + 5,9 \text{ mol\% Sm}_2\text{O}_3$ deponovaný pri 200°C, avšak bez bombardovania Ar^+ iónami, bola tvrdosť vysoká, $\sim 3,5 \text{ GPa}$. Ar^+ bombardovanie znižovalo tvrdosť vzoriek. Permittivita filmov CeO_2 s 10,9 mol% Sm_2O_3 deponovaných pri 200°C s Ar^+ bombardovaním dosiahla hodnotu $k = 15,4$.

9.) Charakterizácia kvázikryštálov a ich aproximantov v zliatinách Al-Pd-TM (TM = prechodný prvok) (*Characterization of quasicrystals and their approximants in Al-Pd-TM alloys (Tm = transition metal)*)

Zodpovedný riešiteľ:	Emília Illeková
Trvanie projektu:	1.1.2007 / 31.12.2009
Evidenčné číslo projektu:	1/4107/07
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Janovec Jozef prof. Ing. DrSc., Materiálovotechnologická fakulta STU, Trnava
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	0 €, VEGA - 3292 €

Dosiahnuté výsledky:

Komplexné kovové zliatiny získané zo Siete výnimočnosti 6. RP EK CMA boli charakterizované pomocou svetelnej mikroskopie, TEM, SEM, rtg. a elektrónovej difrakcie, spektrálnej analýzy (EDX), DTA a merania tvrdosti. Vzorky na báze Al-Pd-Co, Al-Pd-Rh a Al-Cr-Fe boli dlhodobo izotermicky žiahané pri teplotách do 1100°C. V mikroštruktúre žiahaných vzoriek spravidla dominovala epsilon-fáza alebo Taylorova fáza. Po DTA meraniach (rýchlosť ohrevu aj ochladzovania bola 10°C/min) boli v mikroštruktúre identifikované podobné fázy ako v žiahaných stavoch, spravidla sa však zmenil ich objemový podiel. Na základe získaných výsledkov boli kriticky zhodnotené dostupné rovnovážne diagramy študovaných systémov. Zo zliatin $\text{Al}_{89}\text{Ni}_6\text{Sm}_5$ a $\text{Al}_{86}\text{Ni}_6\text{Sm}_5\text{Pd}_3$ (at.%) boli rýchlym chladením vyrobené amorfné pásy, ktoré boli následne ohrievané rýchlosťou 10°C/min. Bolo zistené, že proces revitifikácie sa uskutočnil v troch na seba nadväzujúcich etapách. V prvej etape sa z amorfnej matrice vylúčili nanočastice hliníka. Počas druhej etapy sa z matrice vylúčili intermetalické zlúčeniny na báze Al-Ni a Al-Sm, pričom tvorba nanočastíc hliníka pokračovala. V poslednej etape sa intermetalické zlúčeniny stabilizovali z fázového aj morfológického hľadiska. Bolo ukázané, že prídavok 3 at.% paládia stabilizoval amorfný stav, ale kinetiku tvorby kryštalických fáz prakticky neovplyvnil.

10.) Vztah štruktúry a vlastností spinových ventilov na báze Co pre spinovú elektroniku (*Relationship between structure and properties of Co-based spin valves for spintronics*)

Zodpovedný riešiteľ:	Matej Jergel
Trvanie projektu:	1.1.2008 / 31.12.2010
Evidenčné číslo projektu:	2/0047/08
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV - 1712 €

Dosiahnuté výsledky:

- bola zistená a analyzovaná tepelne indukovaná hcp->fcc štruktúrna transformácia v tenkých kobaltových vrstvách pre spinové ventily a vplyv sprievodných makronapäť na vývoj magnetickej anizotropie

- metódou rtg difrakcie, reflektometrie a maluhlového rtg rozptylu pri šikmom dopade (GISAXS) bola vykonaná sekvenčná analýza štruktúry a vývoja rozhraní v multivrstve spinového ventilu s inkorporovanými nanočasticami po jednotlivých krokoch prípravy

11.) Úloha vody v poréznych štruktúrach (*Role of water in porous structures*)

Zodpovedný riešiteľ: Ľudovít Kubičár
Trvanie projektu: 1.1.2008 / 31.12.2010
Evidenčné číslo projektu: 2/0146/08
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA - 1741 €

Dosiahnuté výsledky:

Projekt je zameraný na štúdium javov spojených s transportom vlhkosti v poréznych materiáloch.

12.) Postupná degradácia horninového materiálu a horninových masívov vplyvom vlhkosťno-tepelných zmien

Zodpovedný riešiteľ: Ľudovít Kubičár
Trvanie projektu: 1.1.2008 / 31.12.2010
Evidenčné číslo projektu: 1/0499/08
Organizácia je koordinátorom projektu: Nie
Koordinátor: Prírodovedecká fakulta univerzity Komenského
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA - 415 €

Dosiahnuté výsledky:

Projekt je orientovaný na konštrukciu monitorovacích systémov ako aj ich použitie v reálnom prostredí. V projekte sa zameriavame na monitorovanie profilu teploty a vlhkosti v skalnom podloží Spišského hradu.

13.) Rastrovací kapacitný tranzientový mikroskop na analýzu defektov v polovodičoch na nanometrovej úrovni (*Scanning Capacitance Transient Microscope for semiconductor analysis on the nanoscale*)

Zodpovedný riešiteľ: Štefan Lányi
Trvanie projektu: 1.1.2008 / 31.12.2010

Evidenčné číslo projektu: 2/0107/08
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA - 1103 €

Dosiahnuté výsledky:

Bol skonštruovaný miniatúrny vyhrievaný stolík umožňujúci meniť teplotu vzorky od izbovej teploty do 473 K, umiestnený na podstavci mikroskopu. Pomocou sondy mikroskopu boli úspešne merané teplotné závislosti spektra hlbokých hladín pentacénu.

14.) Usporiadanie a magneticko-mechanické charakteristiky Langmuir-Blodgettovej nanočasticových vrstiev a membrán

Zodpovedný riešiteľ: Štefan Luby
Trvanie projektu: 1.1.2009 / 31.12.2011
Evidenčné číslo projektu: VEGA 2/0126/09
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: FU SAV - 7717 €

Dosiahnuté výsledky:

Projekt je zameraný na nanočasticové súbory CoFe_2O_4 a Fe_3O_4 , štúdium ich prípravy metódou LB, ich využitie v senzoch a CIMS štruktúrach. Súbory sa pripravili a preskúmali metódou GISAXS a s cieľom ich využitia v senzoch, kde je potrebné snímať elektrický signál, sa sledovala otázka odstránenia izolujúceho surfaktantu UV žiarením.. Skúmal sa preto časový vývoj medzičasticovej vzdialenosti pri ožiarení, ktorý sa ukázal byť procesom ovplyvneným UV fotolýzou surfaktantu s jednoduchým exponenciálnym priebehom. Nanočasticové monovrstvy aglomerovali v rovine do labyrintovej štruktúry s typickou dĺžkou okolo 30 nm. Potom pri použití LB dvoj- alebo trojvrstvy môže vzniknúť súbor s elektrickou konektivitou.

15.) Komplexnosť v dvojhladinových kvantových elektron-fononových systémoch (*Complexity in two-level quantum electron-phonon systems*)

Zodpovedný riešiteľ: Eva Majerníková
Trvanie projektu: 1.1.2009 / 31.12.2011
Evidenčné číslo projektu: 2/0095/09
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0

Dosiahnuté výsledky:

1. Pre rozšírený Jahn-Tellerov model a ekvivalentný Dickeho model s dvoma bozonmi o rôznych

frekvenciách a rôznych interakčných parametroch na 1d mriežke sme našli fázové prechody druhého druhu medzi modifikovanou normálnou a stlačenou radiačnou fázou.

Na konečnej mriežke obe fázy v istom intervale interakcií koexistujú. Korelácia medzi hladinami sprostredkovaná dodatočným modom redukuje repulziu hladín. Prejaví sa to v charakteristikách chaosu tak, že sa Wignerovské rozdelenie vzdialeností hladín excitovaných stavov Dickeho modelu s jedným bozonom neuniverzálne redukuje v rozpätí od Wignerovského cez semi-Poissonovské asymptoticky k Poissonovskému rozdeleniu. V limite rovnakých frekvencií je rozdelenie medzi asymptoticky semi-Poissonovským a Poissonovským. Navrhujeme aplikácie pre interpretáciu rozšírenia bezfononových spektrálnych čiar v dôsledku chaosu, dvojzložkové spektrum luminiscencie v niektorých luminofoch, fullerinoch vykazujúcich JT štruktúrny FP, na fázový prechod typu lokalizácia-delokalizácia medzi Mottovým izolátorom a supratekutou fázou v systéme ultra-studených atomov.

2. Ukázali sme, že elektron-fononová interakcia v graphene môže otvoriť medzeru v energetickom spektre grafenu. Našli sme kvadratický disperzný zákon excitovaných stavov. Nájdená energetická medzera je dôležitým predpokladom pre aplikácie grafenu.

16.) Objemové a povrchové vlastnosti nových kovových materiálov (*Bulk and surface properties of new metallic systems*)

Zodpovedný riešiteľ:	Marek Mihalkovič
Trvanie projektu:	1.1.2008 / 31.12.2010
Evidenčné číslo projektu:	2/0157/08
Organizácia je	Áno
koordinátorom projektu:	
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských	0
inštitúcií:	
Čerpané financie:	VEGA - 13371 €

Dosiahnuté výsledky:

Dosiahli sme výrazný pokrok v pochopení atómovej štruktúry zložitých fáz v systéme AlMnPd. (Do tohto výskumu je zapojená aj skupina ITAP Univerzity Stuttgart pod vedením prof. Trebina, ale aj skupina prof. C. L. Henleya z Cornellovej Univerzity). Jedná sa o tzv. T-fázu (156 atómov v elementárnej bunke), Ksi-fázu (cca 320 atómov), a štruktúrne modely hypotetických kryštálov so 120 až 550 atómami v elementárnej bunke.

V spolupráci so skupinou z MPI Dresden sme zmapovali stabilitu a objasnili štruktúru tzv. Fi fázy v systéme AlMgZn (cca 100 atómov v elem. bunke). S tou istou skupinou sme popísali zvláštnosti zložitých štruktúr v zliatine MgPd.

V spolupráci s prof. M. Widomom z Carnegie Mellon Univerzity Pittsburgh sme rozpracovali metódu predpovedania zložitých atómových štruktúr bez predbežnej experimentálnej informácie, s výnimkou mriežkových parametrov. Metóda vyžaduje presné klasické medziatómové potenciály, a kombinuje ich so žíhaním metódou tzv "replica exchange".

Zaoberali sme sa štúdiom magnetizmu v kvázikryštáli AlPdMn. Ukázali sme, že základný stav kvázikryštálu AlPdMn je nemagnetický. Identifikovali sme a jasne rozlíšili mechanizmy vzniku magnetického momentu na Mn atómoch. Magnetizmus vzniká predovšetkým v dôsledku substitučných Al/Pd defektov v okolí Mn atómov. Pozorovali sme tiež vysokú magnetickú polarizabilitu niektorých nemagnetických Mn atómov. Našli sme súvis medzi touto polarizabilitou atómov a ich polohou v 6D hyper-priestore. Zatiaľ čo magnetické momenty individuálnych

magnetických Mn atómov nepresiahnu veľkosť $3 \mu_B$ v dôsledku tejto polarizability sa magnetický moment Mn javí efektívne podstatne väčší dosahujúcu hodnotu 6-8 μ_B , čo je podstatne viac ako Hundova hranica 5 μ_B . Tým sme vysvetlili túto experimentálne pozorovanú záhadu obrovských magnetických momentov. Študovali sme tiež formovanie kváziperiodickej monovrstvy atómov Pb na povrchu AlPdMn. Zaoberali sme sa tiež identifikáciou štruktúry čistého povrchu dekaagonálnej fázy T-AlPdMn.

V systémoch na báze Fe/Co-Mo-Cu-B a Fe-Cu-Nb/Mo-Si-B sme skúmali vplyv vzájomného pomeru Nb:Mo a Fe:Co na termodynamickú stabilitu, kinetiku vzniku metastabilných a stabilných kryštalických fáz, morfológiu nanokryštálov, mechanické a najmä magnetické vlastnosti materiálu. Ukázali sme, že magneticky mäkké systémy bez Si sú osobitne náchylné na ďalší vývin makroskopickej heterogenity pri teplotách potrebných na nanokryštalizáciu. Žihanie vo vákuu poskytuje lepšie možnosti pre ciele ovplyvnenie mag. vlastností, než úprava as-cast materiálu alebo nanokryštalizácia v inertnej atmosfére.

V systémoch Ti-Ni-Zr sme preskúmali význam termodynamiky solidifikácie na vznik kvázikryštalických a nanokryštalických fáz v amorfnej matici, našli sme podmienky potrebné pre riadenie vzniku fázy beta-Ti a α -Ti.

Celkový počet publikácií - 9 CC, 4 non-CC, 6 rozpracovaných.

17.) Výskum a implementácia metód zberu spracovania a vizualizácie mnohorozmerných dát v experimentálnej jadrovej spektroskopii (*Research and implementation of multidimensional data acquisition, processing and visualization methods in experimental nuclear spectroscopy*)

Zodpovedný riešiteľ: Miroslav Morháč
Trvanie projektu: 1.1.2009 / 31.12.2011
Evidenčné číslo projektu: 2/0029/09
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA - 2445 €

18.) Globálne prístupné experimenty v prírodných vedách ako súčasť integrovaného e-learningu (*Globally available interactive experiments in natural sciences as a part of integrated e-learning*)

Zodpovedný riešiteľ: Vojtech Nádaždy
Trvanie projektu: 1.1.2008 / 31.12.2010
Evidenčné číslo projektu: 1/0332/08
Organizácia je koordinátorom projektu: nie
Koordinátor: Pedagogická fakulta TVU
Počet spoluriešiteľských inštitúcií: 0

Dosiahnuté výsledky:

Vytvorili sme prototyp zostavy pre elektrochemický experiment detekcie Cu iónov vo vodnom

roztoku pre využitie v E-laboratóriu, ktorý je čiastočne automatizovaný pomocou inteligentného školského experimentálneho systému ISES

19.) Skúmanie štruktúry hadrónov času-podobnými virtuálnymi fotónmi (*Probing the Structure of Hadrons by the Time-like Virtual Photons*)

Zodpovedný riešiteľ: Miroslav Nagy
Trvanie projektu: 1.1.2009 / 31.12.2011
Evidenčné číslo projektu: 2/0034/09
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0

Dosiahnuté výsledky:

Zaoberali sme sa spektroskopickými dôsledkami plznúcimi y kombinovanej analýzy procesov so pseudoskalárnymi mezónmi. Naša metóda je založená na analytčnosti a unitárnosti S -matice, využívajúc uniformizačné premenné (modelovo-nezávislý prístup) a multikanálové Breit-Wignerovské formy. Takýto prístup je citlivý na dáta a je aplikovateľný iba na dvoj- a trojkanálové prípady.

Získali sme pozoruhodné výsledky analýzy experimentálnych údajov o izovektorovej P -vlny piónového rozptylu a izoskalárnych S - a D -vln procesov so pseudoskalárnymi mezónmi. Obdržali sme nové výsledky aj pre tenzorový kanál. Ukázali sme na významnú úlohu pólových klastrov (pólz a nuly na Riemannovej ploche) ako charakteristiky multikanálových stavov v modelovo-nezávislom prístupe.

20.) Štruktúra vákua a neporuchové javy v kalibračných teóriách (*Vacuum Structure and Non-perturbative Effects in Gauge Theories*)

Zodpovedný riešiteľ: Štefan Olejník
Trvanie projektu: 1.1.2009 / 31.12.2012
Evidenčné číslo projektu: VEGA 2/0070/09
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA - 6384 €

Dosiahnuté výsledky:

2 CC publikácie, 4 e-printy.

21.) Špeciálne metódy metalurgického spájania ťažko zvariteľných materiálov a ich aplikácia na výrobu nových materiálov vysokých technických parametrov (*Special methods for metallurgical bonding of hard-to-weld materials and their application in manufacture of new materials with high technical parameters*)

Zodpovedný riešiteľ: Milan Ožvold

Trvanie projektu: 1.1.2009 / 31.12.2011
Evidenčné číslo projektu: 1/0842/09
Organizácia je koordinátorom projektu: nie
Koordinátor: Materiálovotechnologická fakulta STU v Trnave
Počet spoluriešiteľských inštitúcií: 0

Dosiahnuté výsledky:

Analogicky k Lindemanovej teórii teploty tavenia je odvodená formula pre teplotu solidifikácie. Relatívna hodnota teploty tuhnutia k teplote tavenia klesá exponenciálne s pomerom latentného tepla k teplote tavenia.

22.) Vyšetrovanie fyzikálnych vlastností štruktúr oxid/polovodič s extrémne redukovanou hustotou stavov rozhraní

Zodpovedný riešiteľ: Emil Pinčík
Trvanie projektu: 1.1.2007 / 31.12.2009
Evidenčné číslo projektu: 2/7120/27
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0

Dosiahnuté výsledky:

V roku 2009 boli v rámci tohoto projektu riešené o.i. nasledovné úlohy

-pasivácie defektných stavov na rozhraní ultratenký oxid (hrúbka menej ako 3 nm)/Si a veľmi tenký oxid (hrúbka medzi 3 a 10 nm)/Si. Výskum bol orientovaný na štruktúry, ktoré mali hustotu defektných stavov rozhraní na úrovni $10^{11} \text{ cm}^{-2} \text{ eV}^{-1}$.

-pôvodu stavov rozhraní, ktoré vznikajú počas nízkoteplotnej oxidácie na n-type a p-type Si kryštálických substrátov po tzv. pooxidačnom žihaní ako aj po tzv. pometalizačnom žihaní pripravených vzoriek MOS typu;

-skúmanie štyroch typov originálnych MOS štruktúr pripravených na karbide kremíka SiC v kooperácii s ISIR Osaka University;

-výskum vyššie uvedených všetkých štruktúr bol realizovaný aj pomocou viacerých štruktúrálnych a optických metód s cieľom komplexného určenia ich vlastností, pretože môžu byť priamo použité v komerčnej produkcii. Napr. pomocou SIMS boli stanovené profily nežiadúcich prímiesnych atómov v skúmaných štruktúrach, ďalej podrobnejšie skúmaný efekt, vplyv, tzv. kvantového uväznenia na polohu luminiscenčných pík.

23.) Štatistická mechanika nízkorozmerných systémov (*Statistical mechanics of low-dimensional systems*)

Zodpovedný riešiteľ: Ladislav Šamaj
Trvanie projektu: 1.1.2009 / 31.12.2011
Evidenčné číslo projektu: 2/0113/09
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV

Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV - 10216 €

Dosiahnuté výsledky:

V oblasti systémov nabitých častíc interagujúcich elektro-magneticky sme vyšetrovali korelačné funkcie povrchového náboja na rozhraní medzi dvomi médiami s rôznymi dielektrickými funkciami. Tieto korelačné funkcie vykazujú ďalekodosahové správanie, pričom prefaktor závisí od použitej (klasikkej alebo kvantovej) fyzikálnej teórie. Bolo ukázané, že zahrnutie retardačných efektov mení kvantovú mechaniku na klasickú.

Metódu dimenzionálnej redukcie difúznej rovnice v nehomogénnom nanokanali na pozdĺžnu súradnicu sme úspešne rozšírili aj na difúziu v externom poli, teda na Smoluchowského rovnicu. Dokázali sme, že výsledkom projekcie je opäť zovšeobecnená Fickova-Jacobsova rovnica, avšak efektívny difúzny koeficient a taktiez mobilita závisia špecifickým spôsobom aj od externého poľa. Naše výsledky majú priame aplikácie v biofyzike, napr. pri popise Brownovských púmp.

Študoval sa rovnovážny stav viacerých typov vozidiel na ceste s jedným jazdným pruhom, opísaných podmienenou pravdepodobnosťou rýchlosti vozidla na rýchlosti predchádzajúceho vozidla a jeho odstupe. Získalo sa rozdelenie pravdepodobností a korelácií rýchlostí a vzdialeností medzi vozidlami. Ukázalo sa, že dopravný tok je najväčší v systéme pozostávajúcom z rovnakého typu vozidiel, pričom aj pridanie vozidiel s väčšou maximálnou rýchlosťou alebo lepšími brzdami situáciu na ceste zhoršovalo.

Počet výjdených publikácií: 4
Počet zaslaných publikácií: 3

24.) Chovanie sa molekúl uväznených v nanometrových póroch (*Behaviour of molecules confined within nanoscale pores*)

Zodpovedný riešiteľ: Ondrej Šauša
Trvanie projektu: 1.1.2007 / 31.12.2009
Evidenčné číslo projektu: 2/7121/27
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: FÚ SAV - 978 €

Dosiahnuté výsledky:

Skúmali sa spôsoby plnenia vysokoporézneho silika-aerogélu hexadekánom a jeho efektívneho odstránenia z pórov metódou pozitronovej anihilácie (PA). Ako najefektívnejší spôsob plnenia SiO₂ aerogélu sa javí plnenie cez kvapalnú fázu, kým najvhodnejším spôsobom odstraňovania hexadekánu je vypaľovanie pri zvýšenej teplote. Prítomnosť alebo absencia cetánu v nanopóroch sa odrazila na dobách života o-Ps. Prítomnosť veľkých prázdnych pórov v silika-aerogéle je možné potvrdiť aj zvýšenou pravdepodobnosťou trojfotónovej anihilácie pozitronov.

Molekulárny systém hexadekánu uzavretého v nanopóroch silika-aerogélu sa chová podobne ako systémy hexadekánu uzavretého v silikagéloch s rôznou priemernou veľkosťou pórov, študovaných v predošlých experimentoch. V prípade čistého hexadekánu sa pozoruje fázový prechod pri teplote 291 K, kým v systéme molekúl uväznených v póroch silika-aerogélu je proces tuhnutia s poklesom

teploty pozvoľnejší a zmenám expanzných koeficientov voľného objemu v teplotnej škále 20-300 K možno priradiť isté zlomové teploty. Nad teplotou cca 265 K hexadekán vykazuje z pohľadu PA metódy parametre bulkovej kvapaliny. Pod teplotou 160 K je hexadekán v stave podobnom ako stuhnutý bulkový hexadekán ale s vyššou mierou neusporiadanosti molekúl (väčšie voľné medzimolekulové priestory). V bulkovom hexadekáne pozorujeme polomer voľnoobjemových kavít pri teplote 100 K 0,16 nm, v hexadekáne uzavretom v matici silika-aerogélu až 0,24 nm. Z hľadiska uväznenia molekúl sa silika-aerogél a silika-gél chovajú veľmi podobne i keď štruktúra pórov sa líši.

V tomto roku sa vybudovali v systéme CAMAC dve experimentálne zariadenia, ktoré dovoľujú urobiť korelačné merania a ich priebežnú analýzu.

Prvý komplex 2D umožňuje robiť dvojrozmerné merania doplerovského rozšírenia anihilačnej čiary. To umožňuje získať informácie o hybnostiach elektrónov, ktoré sa zúčastňujú anihilačnej interakcie. Druhý, AMOC, dovoľuje získavať korelácie doby života pozitronov s doplerovským rozšírením anihilačnej čiary.

Prvé experimenty na 2D a AMOC prebehli a poskytli experimentálne údaje na korelačných maticiach veľkosti 16000x1000.

Študovali sa aj vlastnosti niektorých amorfných organických materiálov (bulk vzorky), ktoré by sa v ďalších výskumoch chceli použiť ako náplň pre uväznené systémy. Pomocou metódy PA sa stanovili niektoré dôležité charakteristiky ako expanzné koeficienty voľného objemu, teploty v Tg. Je predpoklad, že v uväznených systémoch budú tieto hodnoty iné.

25.) Nanonewtonové sily pre nanomanipuláciu a zobrazovanie pomocou Atómového silového mikroskopu: NanoNewton (*Nanonewtown forces for manipulation and imaging with Atomic Force Microscope: Nanonewton*)

Zodpovedný riešiteľ:	Ivan Štich
Trvanie projektu:	1.1.2007 / 31.12.2009
Evidenčné číslo projektu:	1/4008/07
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	FU SAV - 4585 €

Dosiahnuté výsledky:

V r. 2009 sme študovali najmä procesy laterálnej manipulácie adatómov cínu substituovaných na povrchu Ge(111)-c(2x8). Ukázalo sa, že sa tento proces dá vysvetliť len za predpokladu, že hrot aktívne vstupuje do procesu manipulácie prostredníctvom pick-up procesov. Pôvodné predstavy boli, že hrot zohráva len úlohu "katalyzátora", ktorý znižuje bariéry PES. Na rozdiel od štandardných predstáv simulácie ukázali, že aktívny vstup hrotu do procesu laterálnej manipulácie nemusí byť experimentálne detekovateľný.

26.) Produkcia neutrónovo-bohatých jadier zväzkami nestabilných jadier (*Production of neutron-rich nuclei with unstable nuclear beams*)

Zodpovedný riešiteľ:	Martin Veselský
Trvanie projektu:	1.1.2008 / 31.12.2010
Evidenčné číslo projektu:	VEGA 2/0073/08
Organizácia je	áno

koordinátorom projektu:

Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA - 1223 €

Dosiahnuté výsledky:

V rámci riešenia projektu bola ukončená analýza získaných experimentálnych účinných prierezov projektilu podobných exotických jadier pri energii zväzku 15 MeV na nukleón. Výsledky boli porovnané s predpoveďami zo simulácií a bola potvrdená rozumná zhoda pre merania pri dvoch uhloch dopadu zväzku 4 a 7 stupňov. Bola ukončená rozsiahlejšia porovnávacia štúdia mearných a simulovaných účinných prierezov projektilu podobných exotických jadier pri energiách od Coulombovskej bariéry po 80 MeV na nukleón. Získané výsledky boli prezentované v rámci prednášok na troch medzinárodných konferenciách a do tlače bol prijatý jeden článok v CC časopise.

Programy: APVV

27.) Kvantové odhady z neúplných dát (*Incomplete Quantum Estimations*)

Zodpovedný riešiteľ: Vladimír Bužek
Trvanie projektu: 1.6.2009 / 31.12.2011
Evidenčné číslo projektu: APVV SK-IT 0007-08
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 1 - Taliansko: 1
Čerpané financie: APVV - 2589 €

28.) Kvantové kráčania a zložitosť (*Quantum Walks and Complexity*)

Zodpovedný riešiteľ: Vladimír Bužek
Trvanie projektu: 1.9.2009 / 31.8.2012
Evidenčné číslo projektu: APVV-LPP-0264-07
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV - 5522 €

29.) Kvantové kráčania, operácie a implementácie qubitov v tuhých látkach (*Quantum Walks, Operations and Solid State Implementation of Qubits*)

Zodpovedný riešiteľ: Vladimír Bužek
Trvanie projektu: 1.7.2008 / 30.6.2011
Evidenčné číslo projektu: APVV-LPP-0264-07

Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV - 25559 €

30.) Kvantovo-informatické aspekty kvantových meraní (*Quantum-information Aspects of Quantum Measurements*)

Zodpovedný riešiteľ: Vladimír Bužek
Trvanie projektu: 1.6.2008 / 31.12.2010
Evidenčné číslo projektu: APVV-0673-07
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV - 33732 €

31.) Kvantové aplikácie (*Quantum Applications*)

Zodpovedný riešiteľ: Vladimír Bužek
Trvanie projektu: 1.1.2007 / 31.12.2009
Evidenčné číslo projektu: RP EU-0014-06
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV - 16597 €

32.) Systém na pyrolýzu triedeného komunálneho odpadu so simultánnym čistením exhalátov a možnosťou produkovať kvapalné palivá a plyný vodík (*System for Direct Pyrolysis of Selected Municipal Waste with Simultaneous Exhaust Gas Cleaning, Possibility to produce of Liquid Fuel and Gaseous Hydrogen*)

Zodpovedný riešiteľ: Katarína Gmucová
Trvanie projektu: 1.2.2007 / 31.12.2009
Evidenčné číslo projektu: APVV-0267-06
Organizácia je koordinátorom projektu: nie
Koordinátor: Fakulta matematiky, fyziky a informatiky, Univerzita Komenského
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV - 5510 €

Dosiahnuté výsledky:

Pre hraničné hodnoty štandardov kvality povrchových vôd sme otestovali schopnosť

karbonizovaného PET odpadu slúžiť ako vhodný materiál pre prípravu normálnych stien určených na odstránenie znečistenia povrchových vôd ťažkými kovmi. Adsorpčná schopnosť, ako aj možnosť spätnej desorpcie v navrhnutom laboratórnom prototypu zariadenia určeného na regeneráciu karbonizovaného PET odpadu, boli testované pre rôzne ťažké kovy (Ag, Cd, Cu, Hg, Zn). Karbonizovaný PET odpad vyhovel ako vhodný materiál pre výrobu normálnych stien s možnosťou regenerácie pre všetky testované kovy s výnimkou kadmia.

33.) Komplexné kovové zliatiny (*Complex Metallic Alloys*)

Zodpovedný riešiteľ:	Marián Krajčí
Trvanie projektu:	1.2.2007 / 31.12.2009
Evidenčné číslo projektu:	APVV-0413-06
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV - 28546 €

Dosiahnuté výsledky:

Celkom sme publikovali v r.2009 v rámci riešenia projektu 12 CC časopiseckých publikácií a 7 non-CC publikácií.

Študovali sme adsorpciu atómových klastrov olova na povrchu AlPdMn. Experimentálne bolo pozorované že pri depozícii Pb na povrch AlPdMn kvázikryštálu v ranných fázach depozície vznikajú charakteristické klastre s 5-násobnou symetriou nazývané star-fish (SF) klastre pre ich podobnosť s tvarom morskej hviezdice. Štruktúru ani nukleačné centrá týchto klastrov však z experimentálnych STM obrázkov nebolo možné identifikovať. Na základe modelov a prvoprincípových DFT výpočtov sa nám podarilo na tieto otázky zodpovedať.

Na základe analýzy podmienok nanokryštalizácie a predošlých poznatkov sme navrhli a pripravili chemicky zjednodušené systémy na báze binárnych a ternárnych systémov Fe-B a Fe-Co-B s využitím malého prídavku Cu ako činiteľa vedúceho k želanej nanoštruktúre s výhodnými magnetickými vlastnosťami. Stanovili sme podmienky vzniku nanokryštalických magneticky mäkkých fáz v amorfnej matici, spravili sme prvé experimenty a merania. Ukázali sme, že vyvinutý prístup poskytuje možnosť získania magneticky mäkkých systémov so zvýšeným obsahom feromagnetických prvkov, vyšším magnetickým syténím a možnosťou riadenia vybraných vlastností pri využití algoritmov termomagnetického spracovania počas nanokryštalizácie.

Pomocou rýchlochladených vzoriek systémov na báze Fe-Co-Mo-Cu-B so zvýšeným obsahom izotopu ^{57}Fe sme spravili prvé experimenty na preskúmanie dopredného jadrového rozptylu v oblasti magnetických fázových prechodov a prechodov z amorfného do kryštalického stavu. Oblasti týchto prechodov sme identifikovali aj detailnou kinetickou analýzou pomocou DTA a DSC.

Prístrojovo a materiálne sme zabezpečili rozvoj metodík TGA a využili sme ich o.i. pri skúmaní vzniku nanokryštalických štruktúr v systémoch na báze Fe-B. Rozvinuli sme aj metodiku prípravy preparátov rozhraní rýchlochladených systémov pre TEM pomocou vysokopresného mechanického stenšovania.

Postavili sme inovovaný výpočtový klaster pre prvoprincípové výpočty na báze procesorov Intel i7.

34.) Termofyzikálne senzory

Zodpovedný riešiteľ: Ľudovít Kubičár
Trvanie projektu: 1.6.2008 / 31.12.2011
Evidenčné číslo projektu: APVV-0497-07
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV - 44579 €

Dosiahnuté výsledky:

Projekt je orientovaný na vývoj nových princípov termofyzikálnych senzorov a hľadanie ich využitia v materiálovej vede a praxi.

35.) Úloha vody v poréznych štruktúrach (*Role of water in porous structures*)

Zodpovedný riešiteľ: Ľudovít Kubičár
Trvanie projektu: 1.9.2009 / 31.8.2012
Evidenčné číslo projektu: LPP-0422-09
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV-LPP - 6360 €

Dosiahnuté výsledky:

Projekt je zameraný na experimentálnu analýzu transportu tepla a vody v poréznych štruktúrach. Doktorant sa bude venovať optimalizácii senzorov a režimu merania tepelnej vodivosti metódou horúcej guľôčky a jej využitia pre monitorovanie transportu vlhkosti, premrzávania a vyparovania v poréznych štruktúrach.

36.) Nanoštruktúry pre vývoj biosenzorov (*Nanostructures for development of biosensors*)

Zodpovedný riešiteľ: Štefan Lányi
Trvanie projektu: 1.9.2008 / 31.12.2010
Evidenčné číslo projektu: APVV-0362-07
Organizácia je koordinátorom projektu: nie
Koordinátor: Tibor Hianik, Prof., RNDr., DrSc.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV - 13477 €

Dosiahnuté výsledky:

Testovali sme rôzne varianty elektrochemického senzora dopamínu pripraveného na báze Langmuir-Blodgettovej vrstiev kalixarénu. Použili sme zlaté diskové elektródy funkcionalizované dvoma rôznymi typmi kalixarénov (calix[4]arene a calix[6]arene). Zistili sme, že za istých

podmienok (v 1 mM roztoku NaCl pri pH~ 6) sme schopní detekovať 10 nM koncentráciu dopamínu. Takéto merania sú žiaľ ojedinelé, pripravené vrstvy nemajú dostatočnú stabilitu. Elektrické vlastnosti kalixarénov sme vyšetrovali aj izotermálnou nábojovou tranzientovou spektroskopiou IQTS na mikroskopickej úrovni v bezkontaktnom režime. 1, 3 a 5 monovrstiev kalixarénu bolo deponovaných metódou LB na podložky kryštallického kremíka (c-Si) a tenkého Pt plechu. Tiež sa potvrdili problémy so stabilitou kalixarénových vrstiev, ktoré sa zmyli pri ponorení do roztoku dopamínu.

37.) Rastrovací magneto-optický Kerrov mikroskop pre štúdium magnetizačných kriviek nanoštruktúr (*Scanning magneto-optical Kerr microscope for studying magnetization changes on nanostructures*)

Zodpovedný riešiteľ: Eva Majková
Trvanie projektu: 1.11.2006 / 30.11.2009
Evidenčné číslo projektu: APVV LPP-0080-06
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV - 8654 €

Dosiahnuté výsledky:

Rastrovací MOKE mikroskop je hotový a je v prevádzke. V r. 2009 sme sa zamerali na výskum magnetických vrstiev a multivrstiev a kombinovaných štruktúr s nanočasticami. Pokračovali sme v analýze korelácií štruktúry a magnetických vlastností CIMS štruktúr, osobitne efekt Neelovej väzby. Najlepší výsledok dal spinový ventil s jadrom Co/Au/Co na Si s natívnym oxidom a Ta bufferom.

Do projektu MOKE mikroskopu bol zapojený doktorand Y. Halahovets, ktorý v súčasnosti dokončil dizertačnú prácu.

38.) Hybridné spintronicke štruktúry riadené spinovo- polarizovaným prúdom (*Hybrid Spintronic Nanostructures Controlled by Spin-Polarized Current*)

Zodpovedný riešiteľ: Eva Majková
Trvanie projektu: 1.3.2007 / 31.12.2009
Evidenčné číslo projektu: APVV-0173-06
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV - 37560 €

Dosiahnuté výsledky:

Pokračovali sme vo výskumu a vývoji štruktúr vhodných pre štúdium prúdom preklápanej magnetizácie. Vyvinuli sme modifikovanú metódu na prípravu nanostĺpikov. Metódou nanokontaktov sme pripravili súbor CIMS nanoštruktúr s laterálnymi rozmermi od 900 nm do 50 nm. K tomu sme vyvinuli zariadenie na meranie závislosti elektrického odporu GMR nanoštruktúr v závislosti od pretekajúceho prúdu v CPP geometrii, ktoré môže merať v impulznom a kontinuálnom

režime (5 CC publikácií)

39.) Samousporiadanie nanočastíc a molekúl na rozhraní kvapalina/vzduch

Zodpovedný riešiteľ: Eva Majková
Trvanie projektu: 1.9.2009 / 31.8.2012
Evidenčné číslo projektu: APVV LPP -0175-09
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV - 6396 €

Dosiahnuté výsledky:

Projekt začal v septembri 2009. urobili sme prípravne štúdie potrebné pre zabezpečenie experimentálnej časti projektu

40.) Structure and Physical Properties of Multilayer System with Spin Dependent Scattering

Zodpovedný riešiteľ: Eva Majková
Trvanie projektu: 1.1.2007 / 31.12.2009
Evidenčné číslo projektu: SK-UA-0019-07
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 2622 €

Dosiahnuté výsledky:

V rámci spolupráce s Univerzitou Sumy sme preskúmali rozhrania multivrstvových štruktúr Co/Au/ Co/ metódou rtg reflektivity a rtg difúzneho rozptylu a vyvíjali zariadenie na meranie závislosti elektrického odporu GMR nanoštruktúr.

41.) Výskum a optimalizácia parametrov c-Si a poly-Si MIS slnečných článkov (*Research and optimization of parameters of c-Si and poly-Si MIS solar cells*)

Zodpovedný riešiteľ: Emil Pinčík
Trvanie projektu: 2.9.2008 / 31.12.2010
Evidenčné číslo projektu: APVV-0577-07
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 1 - Japonsko: 1
Čerpané financie: APVV - 65990 €

Dosiahnuté výsledky:

Počas roku 2009 bola aktivita riešiteľov sústredená najmä na nasledovné okruhy technických a

vedeckých problémov projektu:

- rozsiahla rekonštrukcia časti technických komerčných zariadení v čistých priestoroch pracoviska, inštalácie meračov spotreby vody a elektriny, rekonštrukcia celého plynového rozvodu v čistých priestoroch, ventilácie, odsávania, inštalácia dodatočných výhrevných telies do čistých priestorov, kompletná výmena starého detekčného systému pre nebezpečné plyny za nový, atď.
- zriadenie Laboratória spektrálnej elipsometrie v Piešťanoch;
- vývoj softveru pre elipsometrické merania ultratenkých vrstiev a jeho aplikácia na viacerých sériach vzoriek;
- optimalizácia formovania pn prechodov v Si;
- vývoj originálneho zariadenia na formovanie špeciálnych povrchov pre ich ďalšie aplikáciu počas formovania slnečných článkov;
- návrh a optimalizácia metalizácie slnečných článkov špeciálneho typu;
- vývoj unikátnych ultratenkých SiO₂ vrstiev v kooperácii s ISIR Osaka University, Japonsko;
- optimalizácia pasivačných procesov pre produkciu slnečných článkov vo vodných HCN roztokoch v kooperácii s ISIR Osaka University;
- realizácia slnečných článkov špeciálneho typu s pn prechodmi a testovanie ich parametrov.

42.) Fyzika očami fyzikov (*Physics by Physicists*)

Zodpovedný riešiteľ:	Martin Plesch
Trvanie projektu:	1.9.2009 / 30.8.2012
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV - 8928 €

Dosiahnuté výsledky:

Podpora dňa otvorených dverí FÚ SAV, webovská stránka projektu www.physics.sk/fof a cca 10 prednášok a diskusií.

43.) Kvantové Monte-Carlo: Ultrapresné simulácie kondenzovaných systémov (*Quantum Monte-Carlo: Maximum Accuracy Simulation of MATter*)

Zodpovedný riešiteľ:	Ivan Štich
Trvanie projektu:	1.9.2008 / 31.12.2010
Evidenčné číslo projektu:	APVV-0091-07
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií:	2 - Taliansko: 1, USA: 1
Čerpané financie:	FU SAV - 34488 €

Dosiahnuté výsledky:

Metódami QMC sa spočítali povrchy potenciálnej energie molekuly azobenzénu pozdĺž torznej súradnice v základnom singletnom stave a v prvom excitovanom singletnom stave. Spočítané energie sú v impresívnej zhode s experimentálne zmeranými hodnotami v základnom stave a v

excitovanom stave pre trans izomér. Pre cis izomér je spočítaná excitačná energia vyššia o 0.2 eV ako v experimente, čo pričítame experimentálnej chybe u ťažko merateľnej excitačnej energie pre geometriu cis izoméru, ktorá je naviac modelovo závislá.

V jednoduchšom popise, tzv. ROKS model elektrónovej štruktúry sme študovali ukotvenú molekulu azobenzénu medzi zlatými hrotmi ako model ukotveného mechanického, optického a opto-mechanického spínača.

44.) Manipulácia nanočastíc pomocou techník atomárnej silovej mikroskopie (NANOPARTicle MANipulation with atomic force microscopy techniques)

Zodpovedný riešiteľ: Ivan Štich
Trvanie projektu: 1.8.2008 / 31.12.2011
Evidenčné číslo projektu: ESF-EC-0007-07
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: FU SAV - 33194 €

Dosiahnuté výsledky:

V r. 2010 sme pokračovali v štúdiu frikčnej duality v systéme Sbn na HOPG. Zistili sme, že tento systém sa nespráva spôsobom, ktorý predpovedajú známe teórie. Detailné výpočty umožnili vysvetliť oba spôsoby pohybu častíc Sbn na HOPG. Ukázali sme, že pohyb bez trenia vzniká procesom "samomazania" časticami Sb₄, ktoré sú hlavnou stavebnou jednotkou Sbn klastrov.

45.) Štúdium elektrónovej štruktúry kondenzovaných systémov ultrapresnými metódami kvantového Monte-Carla (Ultra high accuracy quantum Monte-Carlo study of electronic and atomic structure of condensed matter systems)

Zodpovedný riešiteľ: Ivan Štich
Trvanie projektu: 1.6.2008 / 31.5.2010
Evidenčné číslo projektu: LPP-0252-07
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: FU SAV - 16863 €

Dosiahnuté výsledky:

Metódami QMC sa spočítali povrchy potenciálnej energie molekuly azobenzénu pozdĺž torznej súradnice v základnom singletnom stave a v prvom excitovanom singletnom stave. Spočítané energie sú v impresívnej zhode s experimentálne zmeranými hodnotami v základnom stave a v excitovanom stave pre trans izomér. Pre cis izomér je spočítaná excitačná energia vyššia o 0.2 eV ako v experimente, čo pričítame experimentálnej chybe u ťažko merateľnej excitačnej energie pre geometriu cis izoméru, ktorá je naviac modelovo závislá.

46.) nanoQMC: Kvantové Monte-Carlo pre nanočastice a transport (*nanoQMC: Quantum Monte-carlo for nanoparticles and transport*)

Zodpovedný riešiteľ: Ivan Štich
Trvanie projektu: 1.9.2009 / 21.8.2013
Evidenčné číslo projektu: LPP-0392-09
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 2 - Taliansko: 1, USA: 1
Čerpané financie: FU SAV - 6223 €

Dosiahnuté výsledky:

Doktorand sa zoznamoval s problematikou QMC metód a jej aplikáciou na reálne systémy. Ako testovací príklad bola vybraná väzbová energia molekuly C₂. Doktorand sa oboznámil s metódami kvantovej chémie, lokalizovanými bázami, pseudopotenciálmi, optimalizačnými metódami variačného a difúzneho Monte-Carla. Doktorand sa tiež začal oboznamovať s literatúrou súvisiacou s projektom, ktorý má začať riešiť (komplexy TM-arenov).

47.) Katalýza riadená mechanochémiou (*Mechanochemistry controlled catalysis*)

Zodpovedný riešiteľ: Ivan Štich
Trvanie projektu: 1.1.2008 / 31.12.2009
Evidenčné číslo projektu: SK-CN-0027-07
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: FU SAV - 3983 €

Dosiahnuté výsledky:

Študovali sme systém malých tiolátovaných zlatých klastrov (ditioAu_n klaster) s adsorbovanou molekulou CO₂. Hlavným zistením bolo, že pod vplyvom stresu (a kompresie) vskutku dochádza k manipulácii LUMO hladiny molekuly CO₂. Pre veľmi malé klastre (n = 8), ktoré sme študovali sa LUMO hladina výrazne posúvala smerom k Fermiho medzi, aj keď nedošlo (pri T = 0) k jej populácii. Predpokladáme, že k populácii LUMO hladiny dôjde buď pri výraznom zahriatí systému alebo pri použití väčších Au_n klastrov.

48.) Interakcie na rozhraní kov - kvapalný kov: Interakcia pokročilých vysokoteplotných bezolovnatých spájok s kovovými i nekovovými nosičmi (*Interactions in metal-liquid metal interfaces*)

Zodpovedný riešiteľ: Peter Švec
Trvanie projektu: 1.9.2008 / 31.12.2010
Evidenčné číslo projektu: APVV-0102-07
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV

Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV - 20547 €

Dosiahnuté výsledky:

Študovaný bol vplyv antimónu (5,10 a 20 at.%) a medi (0, 1.8 a 3.7 at.%) v bezolovnatej spájke Sn-Sb-Cu na zmáčanie medenej podložky pri teplote 350°C na vzduchu s použitím taviva a v ochrannom plyne N₂+10H₂ metódou ležiacej kvapky.

Uhol zmáčania na vzduchu vzrastá so zvyšovaním koncentrácie antimónu v spájke (od 25° pre 5 at % po 59° pre 20 at.%Sb), zatiaľ čo uhol zmáčania v N₂+10H₂ prakticky nezávisí na koncentrácii antimónu (uhly zmáčania pri 350°C po 1800 s boli ~30°). Kvalitatívne rovnaký vplyv na zmáčanie medenej podložky má aj meď. Uhol zmáčania vzrastá so zvyšovaním koncentrácie medi v prípade zmáčania na vzduchu s tavivom a uhol zmáčania (25°) prakticky nezávisí na koncentrácii medi v prípade zmáčania v deoxidáčnom plyne.

Okrem zmáčania bol študovaný vplyv antimónu a medi aj na pevnosť spojov meď-spájka-meď pripravených na vzduchu s tavivom ako aj v ochrannom plyne. Pevnosť spojov so vzrastom Sb v spájke klesá pre oba spôsoby ich prípravy, pritom prítomnosť medi v spájke zvyšuje pevnosť spojov pripravených v plyne v porovnaní s pevnosťou spojov pripravených na vzduchu.

49.) Elektromagnetické spracovanie metastabilných materiálov (*Electromagnetic processing of metastable materials*)

Zodpovedný riešiteľ: Peter Švec
Trvanie projektu: 1.2.2007 / 31.12.2009
Evidenčné číslo projektu: APVV-COST-0031-06
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV - 8630 €

Dosiahnuté výsledky:

Vyvinuli sme metódu termoelektromagnetického spracovania kovových systémov v metastabilnom stave s možnosťou tvarovania hysteréznej sľučky a minimalizáciou hodnoty koercivity, v spolupráci s UEF SAV sme ju aplikovali na systémy Fe-Co/Ni-Nb-B a novovyvinuté modelové nanokryštalické systémy na báze binarných zliatin s vysokým obsahom Fe (2 CC a 4 non-CC publikácie).

50.) Magnetomechanické javy v zliatinách na báze Fe a FeGa (*Magnetomechanical effects in FeGa and Fe-based alloy systems*)

Zodpovedný riešiteľ: Peter Švec
Trvanie projektu: 1.1.2008 / 31.12.2009
Evidenčné číslo projektu: APVV-SK-CN-0021-07
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0

Čerpané financie: APVV - 3983 €

Dosiahnuté výsledky:

Pripravili sme predzliatiny Fe-Ga, analyzovali sme ich základné vlastnosti a štruktúru a pripravili sme metódou RSP páskové materiály so zvýšenými hodnotami magnetostriekcie.

Programy: Štrukturálne fondy EÚ Výskum a vývoj

51.) QUTE – Centrum excelentnosti kvantových technológií (QUTE - Centre of excellence for quantum technologies)

Zodpovedný riešiteľ: Ivan Štich
Trvanie projektu: 1.5.2008 / 31.3.2011
Evidenčné číslo projektu: 26240120009
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0

Dosiahnuté výsledky:

Projekt je hlavne infraštrukturálny, a preto sa v 1. roku riešenie riešili najmä otázky verejného obstarávania. V súčasnosti (január 2010) prebiehajú 2 výberové konania.

Programy: Štrukturálne fondy EÚ Bratislavský kraj

52.) Centrum excelentnosti pre nové technológie v elektrotechnike I

Zodpovedný riešiteľ: Karol Fröhlich
Trvanie projektu: 1.6.2009 / 30.5.2011
Evidenčné číslo projektu: 26240120011
Organizácia je koordinátorom projektu: nie
Koordinátor:
Počet spoluriešiteľských inštitúcií: 0

Dosiahnuté výsledky:

V rámci projektu CE I sme realizovali verejné obstarávanie na plánované zariadenia a v súčasnosti čakáme na ich dodávku.

53.) Centrum komercializácie poznatkov a ochrany duševného vlastníctva Slovenskej akadémie vied

Zodpovedný riešiteľ: Marián Janek
Trvanie projektu: 1.10.2009 / 31.8.2012
Evidenčné číslo projektu: 26240220006

Organizácia je nie
koordinátorom projektu:
Koordinátor:
Počet spoluriešiteľských 0
inštitúcií:

Dosiahnuté výsledky:

Projekt sa začal riešiť v októbri 2009 a implementuje sa.

54.) Centrum aplikovaného výskumu nanočastíc

Zodpovedný riešiteľ: Eva Majková
Trvanie projektu: 1.10.2009 / 31.3.2012
Evidenčné číslo projektu: 26240220011
Organizácia je áno
koordinátorom projektu:
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských 0
inštitúcií:

Dosiahnuté výsledky:

Projekt sa začal riešiť v októbri 2009. pripravili sme podklady pre verejné obstarávanie prvých zariadení.

55.) Vytvorenie CE na výskum a vývoj konštrukčných kompozitných materiálov pre strojársku, stavebnú a medicínsku aplikáciu

Zodpovedný riešiteľ: František Simančík
Trvanie projektu: 1.6.2009 / 31.5.2011
Evidenčné číslo projektu: 262 401 200 06
Organizácia je nie
koordinátorom projektu:
Koordinátor:
Počet spoluriešiteľských 0
inštitúcií:

Dosiahnuté výsledky:

Príprava výberových konaní pre nákup plánovaných zariadení, príprava laboratórnych priestorov pre umiestnenie a prevádzku zariadení.

Programy: Mechanizmus EHP

56.) (*Arrays of magnetic nanoparticles and nanoparticles membranes for sensor application*)

Zodpovedný riešiteľ: Eva Majková
Trvanie projektu: 1.10.2008 / 31.12.2010
Evidenčné číslo projektu: SAV-FM-EHP-2008-01-01
Organizácia je áno

koordinátorom projektu:

Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV-EHP - 54979 €

Dosiahnuté výsledky:

V rámci projektu sme pripravili prvé samonosné nanočasticové membrány rozmermi niekoľko 100 nm, skúmali sme efekt modifikácie surfaktantu fotolýzou atak pre usporiadané nanočasticové mono a multivrstvy ako aj v koloidnom rozotku nanočastíc. Skúmali sme s časovým rozlíšením v ms oblasti reasembling nanočastíc v dôsledku fotolýzy surfaktantu. 4 CC publikácie

Programy: Centrá excelentnosti SAV

57.) Centrum excelentnosti – Kvantové technológie (*Center of Excellence – Quantum Technologies*)

Zodpovedný riešiteľ: Vladimír Bužek
Trvanie projektu: 1.1.2009 / 31.12.2012
Evidenčné číslo projektu:
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV - 39832 €

Dosiahnuté výsledky:

58.) Centrum nanoštruktúrnych materiálov - NANOSMART (*Center for nanostructured materials - NANOSMART*)

Zodpovedný riešiteľ: Ján Dusza
Trvanie projektu: 1.1.2007 / 31.12.2010
Evidenčné číslo projektu:
Organizácia je koordinátorom projektu: nie
Koordinátor:
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: P SAV - 4846 €

Dosiahnuté výsledky:

Vývoj novej technológie prípravy amorfných a nanokryštalických objemových materiálov metódou RSP pri súčasnom využití javov pri solidifikácii viacerých vrstiev s cieľom získať viacvrstvové funkčne gradované materiály pre mechanické a magnetomechanické aplikácie.

Programy: Iné projekty

59.) Štatistická analýza vplyvu nanodrsnosti rozhraní polovodičových systémov na ich optické vlastnosti

Zodpovedný riešiteľ: Emil Pinčík
Trvanie projektu: 1.1.2008 / 31.12.2009
Evidenčné číslo projektu: AGA 01-2008
Organizácia je koordinátorom projektu: nie
Koordinátor: Dr.Ferdinand Chovanec, PhD; Akadémia ozbrojených síl MNO SR, Liptovský Mikuláš
Počet spoluriešiteľských inštitúcií: 0

60.) *(Novel Table-top X-ray Instrumentation for Nanotechnology-oriented Engineering Applications.)*

Zodpovedný riešiteľ: Peter Šiffalovič
Trvanie projektu: 1.1.2009 / 31.12.2009
Evidenčné číslo projektu: SAIA 62s1
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: 3050 €

Dosiahnuté výsledky:

Pomocou table-top zariadenia na meranie malouhlového RTG rozptylu sme charakterizovali nasledovné RTG zrkadlá – W-B₄C, La-B₄C, Mo-Si

Programy: Vedecko-technické projekty

61.) Magnetické kvapaliny nové izolačné a chladice médium pre výkonové transformatory *(Magnetic fluid=new insulated and cooling medium for power transformers)*

Zodpovedný riešiteľ: Milan Timko
Trvanie projektu: 1.1.2009 / 31.12.2011
Evidenčné číslo projektu: mnt-era.net
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: MVTS - 10000 €

Dosiahnuté výsledky:

Projekt je orientovaný na hľadanie varianov chladiaceho média vo vysokonapäťových transformátoroch. Venovali sme sa vývoju senzorov tepelnej vodivosti na princípe metódy horúcej guľôčky. Skonstruovali sme senzory skladajúce sa z jedného prvku (platínový odpor, miniatúrny termistor, termistor pre použitie v SMD technike) a termistor skladajúci sa z dvoch prvkov. Premerala sa tepelná vodivosť transformátorových olejov metódou horúcej guľôčky. Príprava transformátora na premeranie rozloženia teplôt pre rôzne oleje.

Programy: Podpora MVTS z prostriedkov SAV

62.) Vysokoteplotné spájkovacie materiály pre spájanie kompozitov (*High-temperature lead-free solders for joining of composite materials*)

Zodpovedný riešiteľ: Dušan Janičkovič
Trvanie projektu: 1.5.2007 / 31.5.2011
Evidenčné číslo projektu:
Organizácia je áno
koordinátorom projektu:
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských 0
inštitúcií:
Čerpané financie: MVTS - 3319 €

Dosiahnuté výsledky:

V spolupráci s partnerskými pracoviskami (Lvov, Ekaterinburg) sme pripravili systémy Sn-Sb, Sn-Bi a Sn-Cu-Bi. Boli merané vlastnosti týchto materiálov v kvapalnom stave. Výsledky poslúžili na optimalizáciu prípravy fóliových bezolovnatých spájok metódou rýchleho ochladzovania. Merali sme vlastnosti spojov pripravených s týchto materiálov (štruktúru Cu-spájka-Cu): zmáčavosť v závislosti od podmienok prípravy spoja, pevnosť spojov, štruktúra spojov.

63.) O mechanizmoch pasivácie defektov a nízкотеплотnej oxidácie a ich aplikácii v Si slnečných článkoch (*Mechanism of defect passivation and low temperature oxidation and their application to solar cells*)

Zodpovedný riešiteľ: Emil Pinčík
Trvanie projektu: 1.4.2007 / 31.3.2009
Evidenčné číslo projektu:
Organizácia je áno
koordinátorom projektu:
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských 1 - Japonsko: 1
inštitúcií:

Dosiahnuté výsledky:

V roku 2009 skončil slovensko-japonský bilaterálny projekt medzi Ú SAV a JSPS s názvom: Mechanism of defect passivation and low temperature oxidation and their application to solar cells. Výskum pasivácie defektných stavov a nízкотеплотnej oxidácie a jeho aplikácia pri vývoji solárnych článkov.

64.) Elektromagnetické spracovanie materiálov (*Electromagnetic processing of Materials*)

Zodpovedný riešiteľ: Peter Švec
Trvanie projektu: 1.4.2005 / 31.12.2009
Evidenčné číslo projektu:
Organizácia je koordinátorom projektu: áno
Koordinátor: Fyzikálny ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: U SAV - 3319 €

Dosiahnuté výsledky:

Ukázali sme, že vplyvom elektrického poľa počas fázových transformácií je možné v istom intervale riadiť rozmer vznikajúcich nanokryštalických zŕn v systémoch na báze Al. Preskúmali sme zmeny fyzikálnych vlastností v nich najmä s ohľadom na tepelnú a mechanickú stabilitu.

Príloha C

Publikačná činnosť organizácie

ABC Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách

- ABC01 ILLEKOVÁ, Emília - ŠESTÁK, J. Crystallization of metallic micro- and nano-crystalline glasses. In Some Thermodynamic, Structural and Behavioral Aspects of Materials Accentuating Non-crystalline States. - Plzeň : University of Bohemia, 2009, p. 308-326. ISBN 978-80-87269-06-0.
- ABC02 KONÔPKA, M. - TURANSKÝ, Robert - DOLTSINIS, N.L. - MARX, D. - ŠTICH, Ivan. Azobenzene- Metal Junction as a Mechanically and Opto- Mechanically Driven Switch. In High Performance Computing in Science and Engineering '08. - Berlin : Springer-Verlag, 2009, p. 95-108. ISBN 978-3-540-88301-2.
- ABC03 KONÔPKA, M. - TURANSKÝ, Robert - DOLTSINIS, N.L. - MARX, D. - ŠTICH, Ivan. Organometallic nanojunctions probed by different chemistries: Thermo-, photo-, and mechano-chemistry. In Advances in Solid State Physics. Vol. 48. - Berlin/Heidelberg : Springer, 2009. P. 219-235. ISBN 978-3-540-85858-4. ISSN 1617-5034.

ADCA Vedecké práce v zahraničných karentovaných časopisoch impaktovaných

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- ADCA20 JANCOVICI, B. - ŠAMAJ, Ladislav. Equilibrium long-ranged charge correlations at the interface between media coupled to the electromagnetic radiation. In Physical Review E, 2009, vol. 80, no. 3, 031139. (2.508 - IF2008). ISSN 1539-3755.
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19. [1.1] SAHA, D. - BASU, D. - HOLU, M. - BHATTACHARYA, P. Two-dimensional spin diffusion in multiterminal lateral spin valves. In *APPLIED PHYSICS LETTERS*. ISSN 0003-6951, JAN 14 2008, vol. 92, no. 2, 022507., WOS
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- ADDA04 IŽDINSKÝ, Karol - SIMANČÍK, František - KORÁB, Juraj - KRAMER, I. - ŠTEFÁNIK, Pavol - KAVECKÝ, Štefan - ŠRÁMKOVÁ, Táňa - CSUBA, Adrián - ZEMÁNKOVÁ, Milina. Preparation and thermophysical properties of Cu alloy/high thermal conductivity carbon fibre composites. In Kovové materiály, 2006, roč. 44, p. 327-334. (0.973 - IF2005). ISSN 0023-432X.

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ADE Vedecké práce v zahr. nekarent. časopisoch a ostaných zborníkoch

- ADE01 MAJERNÍK, Vladimír - MAJERNÍKOVÁ, Eva - SHPYRKO, S. Uncertainty relations expressed by Shannon-like entropies. In Central European Journal of Physics, 2003, vol. 3, p. 393-420www.cesj.com.

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2. [1.1] AL-KADER, G.M.A. - OBADA, A.S.F. Von Neumann entropy and entropy squeezing of a two-level atom and the superposition of squeezed displaced fock states. In JOURNAL OF RUSSIAN LASER RESEARCH. ISSN 1071-2836, JUL 2008, vol. 29, no. 4, p. 398-407., WOS

AFC Publikované príspevky na zahraničných vedeckých konferenciách

- AFC01 FEUERBACHER, M. - THOMAS, C. - MAKONGO, J.P.A. - HOFFMANN, S. - CARRILLO-CABRERA, W. - CARDOSO, R. - GRIN, Y. - KREINER, G. - JOUBERT, J.M. - SCHENK, T. - GASTALDI, J. - NGUYEN-THI, H. - MANGELINCK-NOEL, N. - BILLIA, B. - DONNADIEU, P. - CZYRSKA-FILEMONOWICZ, A. - ZIELINSKA-LIPIEC, A. - DUBIEL, B. - WEBER, T. - SCHAUB, P. - KRAUSS, G. - GRAMLICH, V. - CHRISTENSEN, J. - LLIDIN, S. - FREDERICKSON, D. - MIHALKOVIČ, Marek - SIKORA, W. - MALINOWSKI, J. - BRUHNE, S. - PROFFEN, T. - ASSMUS, W. - DE BOISSIEU, M. - BLEY, F. The samson phase, beta-Mg₂Al₃, revisited. In Zeitschrift fur Kristallographie, 2007, vol. 22, no. 6, p. 259-288. ISSN 0044-2968.

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2. [1.1] NOZAWA, K. - ISHII, Y. First-principles studies for structural transitions in ordered phase of cubic approximant Cd₆Ca. In JOURNAL OF PHYSICS-CONDENSED MATTER. ISSN 0953-8984, AUG 6 2008, vol. 20, no. 31, 315206.,

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- AFC02 FISCHER, S. - ALKOEFER, R. - MAAS, Axel - PAWLOWSKI, J. M. - VON SMEKAL, L. Large volume behaviour of Yang-Mills propagators. In Proceedings of the XXV International Symposium on Lattice Field Theory. Proceedings of Science (LATTICE 2007) 300. - 2007. S. 1-7., s. 1-7.
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- AFC07 CHANG, I.T.H. - ŠVEC, Peter - GOGEBAKAN, M. - CANTOR, B. Rapidly solidified Al₈₅Ni_{15-x}Y_x (x=5,8,10) alloys. In Materials Science Forum. Vol. 225: Metastable, mechanically alloyed and nanocrystalline materials. Proceedings of the Int. Symposium, ISMANAM-95. Editor R.Schulz. - Trans Tech Publ., 1996, p. 335-

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2. [1.1] VASILIEV, A.L. - AINDOW, M. Devitrification of Al-Y-Ni glasses. In ELECTRON MICROSCOPY AND MULTISCALE MODELING, PROCEEDINGS. ISSN 0094-243X, 2008, vol. 999, p. 257-267., WOS

AFC08 OŽVOLD, Milan - MRAFKO, Peter - GAŠPARÍK, V. Determination of optical constants of thin films on substrates by reflectance and transmittance measurements. In Proceedings of SPIE . Selected Papers on Optics and Photonics: Optic. Diagn. Mater. Devices for Opto-, Micro-, and Quantum Electronics. - Bellingham : SPIE, 2003. P. 160-164, p. 160-164. ISBN 0-8194-4825-7.

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AFC09 WIDOM, M. - MIHALKOVIČ, Marek. Order-disorder transition in the Cd-Ca cubic approximant. In QUASICRYSTALS 2003- Preparation, properties and applications. MRS Fall Meeting Symposium Proceedings. Vol. 805. Editor E. Belin-Ferre, M. Feuerbacher, Y. Ishii, D.J. Sordet. - Warrendale : Materials Research Society, 2004, p. 53-58. ISBN 1-558899-743-1.

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1. [1.1] NOZAWA, K. - ISHII, Y. First-principles studies for structural transitions in ordered phase of cubic approximant Cd₆Ca. In JOURNAL OF PHYSICS-CONDENSED MATTER. ISSN 0953-8984, AUG 6 2008, vol. 20, no. 31, 315206., WOS

GII Rôzne publikácie a dokumenty, ktoré nemožno zaradiť do žiadnej z predchádzajúcich kategórií

GII01 BĚTÁK, Emil. An updated PC version of fully pre-equilibrium computer code with gamma emission. In Report FU SAV, 1989, 89/5. Bratislava: FU SAV. Report.

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2. [1.1] SCHILLER, A. - THOENNESSEN, M. Compilation of giant electric dipole resonances built on excited states. In ATOMIC DATA AND NUCLEAR DATA TABLES. ISSN 0092-640X, JUL 2007, vol. 93, no. 4, p. 549-573., WOS

GII02 BĚTÁK, Emil - OBLOŽINSKÝ, Pavol. PEGAS: Pre-equilibrium gamma- and spin code. In Report INDC (SLK), 1993, 001. Vienna: IAEA. Report.

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2. [1.1] CHUVILSKAYA, T.V. - SHIROKOVA, A.A. - KADMENSKII, A.G. - CHECHENIN, N.G. Recoil-nucleus spectra in the interaction of cosmic-ray protons with spacecraft electronics. In PHYSICS OF ATOMIC NUCLEI. ISSN 1063-7788, JUL 2008, vol. 71, no. 7, p. 1293-1297., WOS

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2. [3] CORNWALL, J.M. Center vortices, the functional Schrodinger equation and CSB. In PREPRINT HEP-PH/ 0812.0359, 2008.

Nezaradené publikácie

- 01 BUŽEK, Vladimír - JEX, I. Emission-spectra of a 2-level atom in a kerr-like medium. In Journal of Modern Optics, 1991, vol. 38, no. 5, p. 987-996. ISSN 0950-0340.

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1. [1.1] CHAKRABARTI, R. - WU, R.B. - RABITZ, H. Quantum Pareto optimal control. In PHYSICAL REVIEW A. ISSN 1050-2947, SEP 2008, vol. 78, no. 3, 033414., WOS
2. [1.1] OBADA, A.S.F. - EIED, A.A. - AL-KADER, G.M.A. Treatment of the emission and absorption spectra for a Lambda-type three-level atom driven by a single-mode field with nonlinearities. In LASER PHYSICS. ISSN 1054-660X, OCT 2008, vol. 18, no. 10, p. 1164-1175., WOS
3. [1.1] OBADA, A.S.F. - EIED, A.A. - AL-KADER, G.M.A. Treatment of the emission and absorption spectra of a general formalism Lambda-type three-level atom driven by a two-mode field with nonlinearities. In JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS. ISSN 0953-4075, JUN 14 2008, vol. 41, no. 11, 115501., WOS

- 02 MORHÁČ, Miroslav - MATOUŠEK, Vladislav - KLIMAN, Ján. Efficient algorithm of multidimensional deconvolution and its application to nuclear data processing. In Digital Signal Processing, 2003, vol. 13, p. 144-171.

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1. [1.1] CZECHOWSKI, T. - KRZYMINIEWSKI, R. - JURGA, J. - CHLEWICKI, W. Two-dimensional imaging of two types of radicals by the CW-EPR method. In JOURNAL OF MAGNETIC RESONANCE. ISSN 1090-7807, JAN 2008, vol. 190, no. 1, p. 52-59., WOS

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Citácie:

1. [1.1] CAMARGO, M. - TELLEZ, G. Renormalized charge in a two-dimensional model of colloidal suspension from hypernetted chain approach. In JOURNAL OF CHEMICAL PHYSICS. ISSN 0021-9606, APR 7 2008, vol. 128, no. 13, 134907., WOS

Príloha D

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

Doc. RNDr. Emil Běták, DrSc., FInstP.

Názov semestr. predmetu: ionizujúci žiarenie v životnom prostredí

Počet hodín za týždeň: 1

Počet hodín za semester: 12

Názov katedry a vysokej školy: Filozoficko-prirodovedecká fakulta Slezskej univerzity, Česká republika, Ústav fyziky

Doc. RNDr. Emil Běták, DrSc., FInstP.

Názov semestr. predmetu: Statistická fyzika a kinetika

Počet hodín za týždeň: 2

Počet hodín za semester: 24

Názov katedry a vysokej školy: Filozoficko-prirodovedecká fakulta Slezskej univerzity, Česká republika, Ústav fyziky

Doc. RNDr. Emil Běták, DrSc., FInstP.

Názov semestr. predmetu: Termodynamika a statistická fyzika

Počet hodín za týždeň: 3

Počet hodín za semester: 36

Názov katedry a vysokej školy: Filozoficko-prirodovedecká fakulta Slezskej univerzity, Česká republika, Ústav fyziky

Prof., Ing. Štefan Luby, DrSc.

Názov semestr. predmetu: Mikroelektronika a informatika

Počet hodín za týždeň: 0

Počet hodín za semester: 6

Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Univerzita tretieho veku

RNDr. Martin Plesch, PhD.

Názov semestr. predmetu: Úvod do kvantovej teórie informácie

Počet hodín za týždeň: 2

Počet hodín za semester: 16

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

Mgr. Mário Ziman, PhD

Názov semestr. predmetu: Úvod do kvantovej teórie informácie

Počet hodín za týždeň: 2

Počet hodín za semester: 26

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

Mgr. Mário Ziman, PhD

Názov semestr. predmetu: Vybrané kapitoly z kvantovej mechaniky

Počet hodín za týždeň: 2

Počet hodín za semester: 26

Názov katedry a vysokej školy: Fakulta Informatiky, Masarykova Univerzita, Vysoké paralelné a

distribúované výpočetní systémy

Semestrálne cvičenia:

Doc. RNDr. Emil Běťák, DrSc., FInstP.

Názov semestr. predmetu: Ionizující záření v životním prostředí

Počet hodin za týždeň: 1

Počet hodin za semester: 12

Názov katedry a vysokej školy: Filosoficko-prirodovedecká fakulta Slezské univerzity, Česká republika, Ústav fyziky

Ing. Matej Jergel, DrSc.

Názov semestr. predmetu: Nanotechnologie

Počet hodin za týždeň: 0

Počet hodin za semester: 2

Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, Katedra fyziky

Semináře:

Mgr. Mária Ziman, PhD

Názov semestr. predmetu: Hot topics v oblasti zpracování kvantové informace

Počet hodin za týždeň: 2

Počet hodin za semester: 26

Názov katedry a vysokej školy: Fakulta Informatiky, Masarykova Univerzita, Vysoce paralelní a distribuované výpočetní systémy

Mgr. Mária Ziman, PhD

Názov semestr. predmetu: Kvantový seminár

Počet hodin za týždeň: 2

Počet hodin za semester: 28

Názov katedry a vysokej školy: Fakulta Informatiky, Masarykova Univerzita, Vysoce paralelní a distribuované výpočetní systémy

Mgr. Mária Ziman, PhD

Názov semestr. predmetu: Kvantový seminár

Počet hodin za týždeň: 2

Počet hodin za semester: 28

Názov katedry a vysokej školy: Fakulta Informatiky, Masarykova Univerzita, Vysoce paralelní a distribuované výpočetní systémy

Terénne cvičenia:

Preddiplomová prax:

Individuálne prednášky:

RNDr. Katarína Gmucová, CSc.

Názov semestr. predmetu: Nanotechnologie

Počet hodín za týždeň: 0

Počet hodín za semester: 1

Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Katedra fyziky

RNDr. Dušan Janičkovič

Názov semestr. predmetu: metódy prípravy nanomateriálov

Počet hodín za týždeň: 0

Počet hodín za semester: 4

Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, Katedra fyziky

RNDr. Eva Majková, DrSc.

Názov semestr. predmetu: Nanotechnológie

Počet hodín za týždeň: 0

Počet hodín za semester: 2

Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, FEI STU

Ing. Vojtech Nádaždy, CSc.

Názov semestr. predmetu: Nanotechnologie

Počet hodín za týždeň: 0

Počet hodín za semester: 2

Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Katedra fyziky

Dr.Rer.Nat. Peter Šiffalovič, PhD.

Názov semestr. predmetu: Fyzika ultrarýchlych dejov

Počet hodín za týždeň: 2

Počet hodín za semester: 24

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

Ing. Peter Švec, DrSc.

Názov semestr. predmetu: nanomateriály

Počet hodín za týždeň: 0

Počet hodín za semester: 12

Názov katedry a vysokej školy: Fakulta elektrotechniky a informatiky STU, katedra fyziky

Príloha E

Medzinárodná mobilita organizácie

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

Krajina	Druh dohody					
	MAD, KD, VTS		Medziústavná		Ostatné	
	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní
Anglicko					Vladimír Bužek	2
Austrália					Tomáš Rybár	13
Belgicko					Vladimír Bužek	2,2,5,4,2,1,3, 6,5,2,6 32
					Tomáš Rybár	1
					Martin Plesch	
Belgicko					Peter Švec	1
					Peter Švec	3
Brazília					Lubomir Martinovič	4
Česko					Emil Běťák	1
					Juraj Boháčík	1
					Mária Hartmanová	1
					Dušan Janičkovič	1
					Matej Jergel	1
					Matej Jergel	2
					Jozef Krištiak	3
					Štefan Lányi	1
					Peter Švec	1
					Martin Veselský	5
					Daniel Nagaj	1,
					Michal Sedlák	1,
					Martin Plesch	2
Čína					Martin Veselský	5
Dánsko					Mário Ziman	11
Francúzsko	Ladislav Šamaj	61			Stanislav Hlaváč	3
	Ladislav	14			Dušan	9

	Šamaj			Janičkovič	
	Ladislav Šamaj	15		Dušan Janičkovič	8
				Lubomir Martinovič	11
				Igor Maťko	12
				Igor Maťko	14
				Igor Maťko	19
				Igor Maťko	5
				Marek Mihalkovič	6
				Marek Mihalkovič	11
				Ivan Štich	3
				Peter Švec	3
				Peter Švec	3
				Peter Švec	9
				Peter Švec	8
				Peter, ml. Švec	9
				Peter, ml. Švec	8
				Peter, ml. Švec	3
				Martin Veselský	3
Grécko				Martin Veselský	8
Holandsko				Vladimír Bužek	2
Japonsko				Marek Mihalkovič	15
				Vojtech Nádaždy	60
				Emil Pinčík	15
				Jaroslav Rusnák	15
Kanada				Daniel Nagaj	7
Kazachstan				Stanislav Dubnička	6
				Stanislav Dubnička	7
Maďarsko	Štefan Lányi	12		Štefan Lányi	2
				Michal Sedlák	3
				Mário Ziman	1
Nemecko	Štefan Luby	32		Stanislav Hlaváč	2
				Stanislav	7

					Hlaváč	
					Stanislav Hlaváč	2
					Lívia Chitu	6
					Lívia Chitu	7
					Lívia Chitu	7
					Dušan Janičkovič	5
					Ľudovít Kubičár	26
					Ľudovít Kubičár	2
					Eva Majerníková	3
					Eva Majková	11
					Eva Majková	7
					Vladislav Matoušek	9
					Marek Mihalkovič	19
					Marek Mihalkovič	18
					Marek Mihalkovič	6
					Marek Mihalkovič	13
					Marek Mihalkovič	22
					Peter Mraško	11
					Peter Mraško	23
					Peter Šiffalovič	7
					Peter Šiffalovič	11
					Peter Šiffalovič	7
					Anton Šurda	2
					Peter Švec	5
					Peter Švec	2
					Peter, ml. Švec	2
					Karol Végső	7
					Karol Végső	6
					Martin Veselský	2
					Martin Veselský	13
					Peter Staňo	27,23
					Vladimír Bužek	4

Poľsko	Štefan Lányi	5			Marek Mihalkovič	7
	Eva Majková	4			Martin Veselský	3
	Peter Šiffalovič	4			Gabriel Vlasák	2
	Gabriel Vlasák	18				
	Gabriel Vlasák	4				
Portugalsko					Kristian Petrík	11
					Daniel Reitzner	8
Rakúsko					Katarína Gmucová	1
					Yuryi Halahovets	30
					Stanislav Hlaváč	5
					Lívia Chitu	1
					Lívia Chitu	3
					Lívia Chitu	31
					Marián Krajčí	1
					Marián Krajčí	1
					Marián Krajčí	1
					Marián Krajčí	1
					Marián Krajčí	1
					Marián Krajčí	1
					Marián Krajčí	1
					Marián Krajčí	1
					Ľudovít Lipták	51
					Ľudovít Lipták	5
					Ľudovít Lipták	8
					Ľudovít Lipták	18
					Štefan Luby	2
					Štefan Olejník	1
					Štefan Olejník	3
					Peter Šiffalovič	1
					Peter Šiffalovič	1
					Peter Šiffalovič	1

				Peter Šiffalovič	1
				Karol Végső	1
				Karol Végső	1
				Vladimír Bužek	1,1,1,1,1,1
				Mário Ziman	1
				Martin Plesch	3,12,7
Rusko	Mária Hartmanová	7		Stanislav Dubnička	5
				Stanislav Dubnička	9
				Stanislav Dubnička	5
				Stanislav Dubnička	8
				Peter Filip	8
				Ján Kliman	47
				Ján Kliman	40
				Ján Kliman	17
				Ján Kliman	11
				Vladislav Matoušek	8
				Ivan Turzo	8
Slovinsko				Dušan Janičkovič	8
				Irena Janotová	8
				Peter Švec	8
				Peter, ml. Švec	8
Španielsko				Peter Švec	3
Švajčiarsko				Cyril Adamuščin	47
				Cyril Adamuščin	59
				Cyril Adamuščin	41
				Erik Bartoš	61
				Erik Bartoš	59
				Erik Bartoš	12
				Erik Bartoš	31
				Stanislav Dubnička	13
				Stanislav Dubnička	14
				Marián Krajčí	3
				Lubomir Martinovič	16

					Peter Šiffalovič	3
Švédsko					Vladimír Bužek	4
					Mário Ziman	4
Taliansko	Štefan Luby	7			Emil Běták	6
	Eva Majková	4			René Derian	13
	Peter Šiffalovič	4			Stanislav Dubnička	8
					Matej Jergel	4
					Štefan Lányi	12
					Martin Veselský	10
					Martin Veselský	6
					Mário Ziman	2
					Peter Rapčan	10
					Michal Sedlák	10
Ukrajina			Juraj Boháčik	13	Miroslav Nagy	15
USA					Emil Běták	26
					Peter Filip	35
					Peter Filip	60
					Stanislav Hlaváč	37
					Marek Mihalkovič	31
					Ivan Štich	10
					Daniel Nagaj	8,17
					Vladimír Bužek	12
					Peter Staňo	14
Veľká Británia					Emília Illeková	1
					Peter, ml. Švec	1
Počet vyslaní spolu	14	191	1	13	193	1892

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

Krajina	Druh dohody					
	MAD, KD, VTS		Medziústavná		Ostatné	
	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní

Argentína					Dr. Eng. Josefina Silveyra	183
					Prof. Victoria Cremaschi	9
Austrália					J.Twamley	6
					R.Said	10
Česko	Dr.Oleksandr Stupakov	5				
					J.Miszczak	5
					I.Hradil	3
					J.Řeháček	3
Čína	Jiang Liping	4				
	Liu Guozheng	4				
	Sun Xiaohua	4				
	Wang Yan	4				
	Xu Yanhui	4				
Dánsko					L.Theusl	3
Francúzsko	Dr. Frederic Prima	5			dipl. Eng. Agnes Portejoie	3
	Prof. Richard Portier	5				
India	Dr.Ashis Kumar Panda	60				
Japonsko					T.Morimae	26
Kanada					S.Croke	4
Maďarsko	Dr. László Dózsa	12				
					M.Koniorczyk	4
Nemecko					Prof. Klaus Cigler	4
					Stefan Strauss	5
					F.Baruffa	30
					M.Raith	3
Poľsko	Dr. Bogdan Szymanski	8				
					K.Banaszek	3
					K.Zycskowski	2

Portugalsko					Y.Omar	6
Rakúsko					M.Huber	7
Rusko					Alexander Ivanovič Malakhov	15
					Sergey Afanasjev	8
					Yuriy S. Anisimov	15
					Yuriy Surovcev	20
					S.Filipov	37
Španielsko					Carlos Calvo Anibarro	244
					Laura Casares	120
Ukrajina	Dr. Alexander Kobushkin	6			Dr. Irina Česko	10
					Dr. Serge Shpyrko	16
					Dr. Yuriy Plevachuk	89
					Sergey Voloshin	15
USA					Prof. Michael Widom	14
					M.Hillery	11,23
					S.Jordan	5
Veľká Británia	Dr. Andrey Andreyev	4			Prof. Alessandro de Vita	3
					P.Knight	3
Počet prijatí spolu	13	125			37	967

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

Krajina	Názov konferencie	Meno pracovníka	Počet dní
Brazília	ICAM 2009	Peter Švec	9
	LC 2009	Lubomir Martinovič	7
Česko	CCP2009	Matúš Dubecký	2
	ES 2009	Ivan Štich	3
	ESS 2009	Štefan Olejník	2
	ISS	Kristian Petrík	6
	NAPCA	Peter Švec	1
	NAPCO	Irena Janotová	1
		Peter, ml. Švec	1
	SMBP	Štefan Lányi	2

	Symposium	Ľudovít Lipták	3
	TM 2009	Danica Fidiriková	2
		Ľudovít Kubičár	2
	TPH 2009	Vlastimil Boháč	2
Čína	LATTICE 2009	Štefan Olejník	11
	NN2009	Martin Veselský	8
Francúzsko	C-MAC-1	Marián Krajčí	6
		Marek Mihalkovič	6
	CNR	Emil Běták	6
	EFTF-IFCS 2009	Vladimír Štofanič	8
	EMRS	Eva Majková	5
	MEDICTA 2009	Emília Illeková	6
	WND	Stanislav Hlaváč	4
	WRAA	Štefan Luby	3
Holandsko	ALLEA	Štefan Luby	3
Japonsko	AIWQ5	Marek Mihalkovič	5
Nemecko	EDINAM 09	Ivan Štich	6
	GISAS	Lívia Chitu	5
	HUM	Peter Šiffalovič	3
	LEPTOS	Matej Jergel	4
	MECO 34	Anton Šurda	6
	PRORA 2009	Peter Šiffalovič	4
	TTK	Emília Illeková	5
Poľsko	E-MRS	Peter Švec	5
	IW SSP	Emil Pinčík	5
		Jaroslav Rusnák	5
Singapur	ICMAT 2009	Mária Hartmanová	9
Španielsko	DIS 2009	Stanislav Dubnička	7
	ISPM 2009	Štefan Lányi	6
Švajčiarsko	ISOLDE	Kristian Petřík	5
		Martin Veselský	6
Švédsko	Manufuture 2009	Dušan Janičkovič	3
Taliansko	HISOLD	Dušan Janičkovič	4
		Peter Švec	4
	IWM 2009	Martin Veselský	4
	NRM	Emil Běták	7
	PASITFS	Róbert Brunner	6
		Ľudovít Malinovsky	7
		Emil Pinčík	6
		Jaroslav Rusnák	6
	QCD - TNT	Štefan Olejník	7
	SMMC	Beata Butvinová	5
		Dušan Janičkovič	5
		Peter Švec	5
		Peter, ml. Švec	5
		Gabriel Vlasák	5
Turecko	ECM	Matej Jergel	7
USA	ITCC	Ľudovít Kubičár	8
	MM	Ivan Štich	6
	STP	Ľudovít Kubičár	9

Veľká Británia	Aperiodic'09	Marián Krajčí	9
	ICSAS	Peter Šiffalovič	8
	MSL	Ivan Štich	5
Austrália	The 2008 Asher Peres International school of Physics, Nov. 30 – Dec. 4, 2009, Sydney	Tomáš Rybár	8
Česko	CEQIP 2009, 6th Central European Quantum Information Processing Workshop, 1-4 June 2009, Jindřichuv Hradec	Martin Plesch	4
		Daniel Nagaj	4
		Peter Rapčan	4
		Michal Sedlák	4
		Daniel Reitzner	4
		Vladimír Bužek	3
		Mário Ziman	4
	Science beyond Fiction, 2009, 21-23 April 2009, Praha	Vladimír Bužek	5
	4th Feynman Festival – International Conference, June 22-26, 2009, Olomouc	Mário Ziman	6
		Daniel Reitzner	6
Fínsko	CEWQO 2009, 16th Central European Workshop on Quantum Optics, 23-27 May 2009, Turku	Peter Rapčan	5
		Mário Ziman	5
Kanada	4th Workshop on Theory of Quantum Computation, Communication and Cryptography, May 11-13, 2009, Waterloo	Martin Plesch	5
Poľsko	Quantum Optics VII – Quantum Engineering of Atmos and Photos, June 8-12 2009, Zakopane	Michal Sedlák	5
		Peter Staňo	5
	Fifth International School and Conference on Spintronics and Quantum Information, 7-11 July 2009, Krakow		

Rakúsko	Quantum Computation and Quantum Spin Systems, August 10-14 2009, Viedeň	Daniel Nagaj	5
	Nonlocal Seminar	Mário Ziman	1
		Vladimír Bužek	1
		Daniel Reitzner	1
		Martin Plesch	1
		Daniel Nagaj	1
		Tomáš Rybár	1
		Peter Rapčan	1
		D.K.Mishra	1
		Mirka Sotáková	1
Taliansko	Europe 09 International School – Quantum Information and Many-Body Systems, 3-17 May 2009, Cortona	Tomáš Rybár	15
USA	The 40th Annual Meeting of the Division of Atomic, Molecular, and Optical Physics, May 19-23, 2009, Charlottesville, Virginia	Vladimír Bužek	5
	QIP 2009, The Twelfth Workshop on Quantum Information Processing, January 12-16 ,2009, Santa Fe, New Mexico,	Daniel Nagaj	5

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

Skratky použité v tabuľke C:

AIWQ5 - Konferencia o kvázikryštáloch AIWQ5

ALLEA - Konferencia ALLEA

Aperiodic'09 - The Sixth International Conference on Aperiodic Crystals APERIODIC'09

C-MAC-1 - First International Conference on Complex Metallic Alloys and their Complexity

CCP2009 - CUDA-TESLA Computing Conference Prague 2009: GPU výpočty a nástroje pro jejich akceleraci

CNR - Compound Nuclear Reactions and Related Topics

DIS 2009 - XVII International Workshop on Deep-Inelastic Scattering and Related Subjects

E-MRS - E-MRS Fall Meeting conference
ECM - ECM 25: 25th European crystallographic meeting
EDINAM 09 - Conference Energy Dissipation in Nanocontacts and Molecular Bonds
EFTF-IFCS 2009 - EFTF-IFCS 2009 Joint Conference
EMRS - European Materials Research Society Spring Meeting 2009
ES 2009 - Erwin Schrodinger 2009
ESS 2009 - Erwin Schrodinger Symposium 2009
GISAS - GISAS Satellite Conference
HISOLD - Advanced Solder Materials for High Temperature Application
HUM - Hasylab users' Meeting
ICAM 2009 - 11th International Conference on Advanced Materials ICAM 2009
ICMAT 2009 - International Conference on Materials for Advanced Technologies
ICSAS - XIV International Conference on Small - Angle Scattering
ISOLDE - ISOLDE Workshop
ISPM 2009 - XI International Scanning Probe Microscopy Conference
ISS - 21st Indian-Summer School of Physics
ITCC - 30th International Thermal Conductivity Conference-18th International Thermal Expansion Symposium
IW SSP - 6th International Workshop - Semiconductor Surface Passivation
IWM 2009 - International Workshop on Multifragmentation and Related Topics
LATTICE 2009 - The XXVII International Symposium on Lattice Field Theory
LC 2009 - LIGHT- CONE 2009: Relativistic Hadronic and Particle Physics
LEPTOS - 6th LEPTOS Workshop
Manufuture 2009 - Manufuture 2009
MECO 34 - 34th Conference of the Middle European Cooperation in Statistical Physics
MEDICTA 2009 - The 9th Mediterranean Conference on Calorimetry and Thermal Analysis
MM - APS Physics, March Meeting
MSL - Materials Simulation Laboratory Workshop 2009
NAPCA - Nanotechnologické aplikace přístroju částicové optiky
NAPCO - Nanotechnologické aplikace přístroju částicové optiky
NN2009 - The 10th International Conference on Nucleus-Nucleus Collisions
NRM - 12th International Conference on Nuclear Reaction Mechanisms
PASITFS - Progress in Applied Surface, Interface and Thin Film Science 2009
PRORA 2009 - PRORA 2009
QCD - TNT - International Workshop on QCD Green's Functions, Confinement, and Phenomenology
SMBP - Seminář o metodách blízkého pole
SMMC - 19th Soft Magnetic Materials Conference
STP - Seventeenth Symposium on Thermophysical Properties
Symposium - Symposium ke 100. výročí narození Václava Votruby
TM 2009 - Thermophysics 2009
TPH 2009 - Thermophysics 2009
TTK - International Symposium on
WND - Workshop on the neutron data analysis of the experiment S304
WRAA - Workshop Rationale and Aims