**Ústav experimentálnej fyziky SAV**   
   
   
   
   
   
   
   
   
   
   
**Správa o činnosti organizácie SAV**   
**za rok 2016**

Košice   
január 2017

**Obsah osnovy Správy o činnosti organizácie SAV za rok 2016**

[1. Základné údaje o organizácii](#chapter1)

[2. Vedecká činnosť](#chapter2)

[3. Doktorandské štúdium, iná pedagogická činnosť a budovanie ľudských zdrojov pre vedu a techniku](#chapter3)

[4. Medzinárodná vedecká spolupráca](#chapter4)

[5. Vedná politika](#chapter5)

[6. Spolupráca s VŠ a inými subjektmi v oblasti vedy a techniky](#chapter6)

[7. Spolupráca s aplikačnou a hospodárskou sférou](#chapter7)

[8. Aktivity pre Národnú radu SR, vládu SR, ústredné orgány štátnej správy SR a iné organizácie](#chapter8)

[9. Vedecko-organizačné a popularizačné aktivity](#chapter9)

[10. Činnosť knižnično-informačného pracoviska](#chapter10)

[11. Aktivity v orgánoch SAV](#chapter11)

[12. Hospodárenie organizácie](#chapter12)

[13. Nadácie a fondy pri organizácii SAV](#chapter13)

[14. Iné významné činnosti organizácie SAV](#chapter14)

[15. Vyznamenania, ocenenia a ceny udelené pracovníkom organizácie SAV](#chapter15)

[16. Poskytovanie informácií v súlade so zákonom o slobodnom prístupe k informáciám](#chapter16)

[17. Problémy a podnety pre činnosť SAV](#chapter17)

***PRÍLOHY***

[*A Zoznam zamestnancov a doktorandov organizácie k 31.12.2016*](#annexe1)

[*B Projekty riešené v organizácii*](#annexe2)

[*C Publikačná činnosť organizácie*](#annexe3)

[*D Údaje o pedagogickej činnosti organizácie*](#annexe4)

[*E Medzinárodná mobilita organizácie*](#annexe5)

**1. Základné údaje o organizácii**

**1.1. Kontaktné údaje**   
   
**Názov:** [Ústav experimentálnej fyziky SAV](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-ins&institute_no=77)   
**Riaditeľ:** [Doc. RNDr. Peter Kopčanský, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4000)   
**Zástupca riaditeľa:** [RNDr. Alena Juríková, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4021)   
**Vedecký tajomník:** [Mgr. Pavol Szabó, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4062)   
**Predseda vedeckej rady:** [RNDr. Pavol Farkašovský, DrSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4007)   
**Člen snemu SAV:** [Prof. RNDr. Peter Samuely, DrSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=), Doc. RNDr. Karol Flachbart, DrSc.  
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**Tel.:** 055/7922201   
**Fax:**   
**E-mail:** sekr@saske.sk   
**Názvy a adresy detašovaných pracovísk:**

 [**Laboratórium kozmickej fyziky na Lomnickom štíte**](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-ins&institute_no=99)   
059 60 Tatranská Lomnica, tel.: 052/467 071

**Vedúci detašovaných pracovísk:**

 [**Laboratórium kozmickej fyziky na Lomnickom štíte**](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-ins&institute_no=99)   
[Prof. Ing. Karel Kudela, DrSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2806)

**Typ organizácie:** Príspevková od 1.4.2016

**1.2. Údaje o zamestnancoch**

Tabuľka 1a Počet a štruktúra zamestnancov

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Štruktúra zamestnancov** | **K** | **K** | | **K  do 35  rokov** | | **F** | **P** | **T** |
| **M** | **Ž** | **M** | **Ž** |
| **Celkový počet zamestnancov** | 134 | 87 | 47 | 12 | 12 | 128 | 107,99 | 76,78 |
| **Vedeckí pracovníci** | 85 | 61 | 24 | 9 | 8 | 79 | 66,2 | 65,18 |
| **Odborní pracovníci VŠ**   (výskumní a vývojoví zamestnanci1) | 18 | 13 | 5 | 2 | 2 | 18 | 15,04 | 11,44 |
| **Odborní pracovníci VŠ**   (ostatní zamestnanci2) | 6 | 1 | 5 | 0 | 2 | 6 | 5,16 | 0,16 |
| **Odborní pracovníci ÚS** | 9 | 3 | 6 | 0 | 0 | 9 | 8,83 | 0 |
| **Ostatní pracovníci** | 16 | 9 | 7 | 1 | 0 | 16 | 12,76 | 0 |

*1 odmeňovaní podľa 553/2003 Z.z., príloha č. 5   
2 odmeňovaní podľa 553/2003 Z.z., príloha č. 3 a č. 4*   
   
*K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2016 (uvádzať zamestnancov v pracovnom pomere, vrátane riadnej materskej dovolenky, zamestnancov pôsobiacich v zahraničí, v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zboroch)*

*F – fyzický stav zamestnancov k 31.12.2016 (bez riadnej materskej dovolenky, zamestnancov pôsobiacich v zahraničí v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zboroch)*

*P – celoročný priemerný prepočítaný počet zamestnancov*

*T – celoročný priemerný prepočítaný počet riešiteľov projektov*

*M, Ž – muži, ženy*

Tabuľka 1b Štruktúra vedeckých pracovníkov (kmeňový stav k 31.12.2016)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Rodová skladba** | **Pracovníci s hodnosťou** | | | | **Vedeckí pracovníci v stupňoch** | | |
|  | **DrSc.** | **CSc./PhD.** | **prof.** | **doc.** | **I.** | **II.a.** | **II.b.** |
| **Muži** | 12 | 48 | 5 | 5 | 19 | 24 | 18 |
| **Ženy** | 0 | 24 | 0 | 1 | 0 | 10 | 14 |

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

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Veková štruktúra (roky)** | **< 31** | **31-35** | **36-40** | **41-45** | **46-50** | **51-55** | **56-60** | **61-65** | **> 65** |
| **Muži** | 5 | 6 | 3 | 8 | 2 | 8 | 15 | 11 | 6 |
| **Ženy** | 6 | 4 | 2 | 5 | 6 | 4 | 0 | 0 | 0 |

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2016

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Kmeňoví zamestnanci** | | **Vedeckí pracovníci** | | **Riešitelia projektov** | |
|  | **Bez úväzku** | **S úväzkom** | **Bez úväzku** | **S úväzkom** | **Bez úväzku** | **S úväzkom** |
| **Muži** | 50,9 | 41,7 | 50,5 | 39,7 | 51,2 | 43,9 |
| **Ženy** | 43,4 | 38,6 | 40,5 | 38,9 | 40,4 | 37,6 |
| **Spolu** | 48,3 | 40,6 | 47,7 | 39,4 | 48,0 | 42,1 |

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

**2. Vedecká činnosť**

**2.1. Domáce projekty**   
   
Tabuľka 2a Počet domácich projektov riešených v roku 2016

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ŠTRUKTÚRA PROJEKTOV** | **Počet projektov** | | **Čerpané financie  za rok 2016 (v €)** | | |
| **A** | **B** | **A** | | **B** |
| **spolu** | **pre  organi-  záciu** |
| **1. Vedecké projekty, ktoré boli   r. 2016 financované VEGA** | 24 | 4 | 114886 | 73256 | 2217 |
| **2. Projekty, ktoré boli r. 2016   financované APVV** | 7 | 4 | 116825 | 82625 | 45879 |
| **3. Projekty OP ŠF** | 0 | 0 | - | - | - |
| **4. Projekty centier excelentnosti SAV** | 0 | 0 | - | - | - |
| **5. Iné projekty (FM EHP, ŠPVV,   Vedecko-technické projekty, ESF,   na objednávku rezortov a pod.)** | 0 | 0 | - | - | - |

*A - organizácia je nositeľom projektu*

*B - organizácia sa zmluvne podieľa na riešení projektu*

Tabuľka 2b Zoznam domácich projektov podaných v roku 2016

|  |  |  |  |
| --- | --- | --- | --- |
| **Štruktúra projektov** | **Miesto podania** | **Organizácia je nositeľom projektu** | **Organizácia sa zmluvne podieľa na riešení projektu** |
| **1. Účasť na nových výzvach APVV**  **r. 2016** | - | 6 | 4 |
| **2. Projekty výziev OP ŠF**  **podané r. 2016** | Bratislava |  | 1 |
| Regióny |  | 2 |

**2.2. Medzinárodné projekty**

**2.2.1. Medzinárodné projekty riešené v roku 2016**

Tabuľka 2c Zoznam medzinárodných projektov riešených v roku 2016

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ŠTRUKTÚRA PROJEKTOV** | **Počet projektov** | | **Čerpané financie  za rok 2016 (v €)** | | |
| **A** | **B** | **A** | | **B** |
| **spolu** | **pre  organi-  záciu** |
| **1. Projekty 7. Rámcového   programu EÚ a Horizont 2020** | 0 | 0 | - | - | - |
| **2. Multilaterálne projekty v rámci   vedeckých programov COST,   ERANET, INTAS, EUREKA,   ESPRIT, PHARE, NATO, UNESCO,   CERN, IAEA, ESF (European   Science Foundation), ERDF a iné** | 2 | 7 | 116948,80 | 116948,80 | 74151,40 |
| **3. Projekty v rámci medzivládnych   dohôd o vedecko-technickej   spolupráci** | 1 | 0 | 3000 | 3000 | - |
| **4. Bilaterálne projekty** | 3 | 0 | 901,30 | 901,30 | - |
| **5. Podpora medzinárodnej   spolupráce z národných zdrojov   (MVTS, APVV,...)** | 7 | 0 | 8502,92 | 8502,92 | - |
| **6. Iné projekty financované alebo   spolufinancované zo zahraničných   zdrojov** | 1 | 0 | 12400 | 12400 | - |

*A - organizácia je nositeľom projektu*

*B - organizácia sa zmluvne podieľa na riešení projektu*

**2.2.2. Medzinárodné projekty v 7. RP EÚ a Horizont 2020 podané v roku 2016**

Tabuľka 2d Počet projektov 7. RP EÚ a Horizont 2020 v roku 2016

|  |  |  |
| --- | --- | --- |
|  | **A** | **B** |
| **Počet podaných projektov v 7. RP EÚ** |  |  |
| **Počet podaných projektov Horizont 2020** |  | 3 |

*A - organizácia je nositeľom projektu*

*B - organizácia sa zmluvne podieľa na riešení projektu*

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

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

Pracovníci ÚEF plánujú aktívnú účasť v nových výzvach a čerpanie grantových finančných prostriedkov z fondov EÚ (Promatech 2) a projektov priemyselno-vedeckej spolupráce a podobne.

Získané finančné prostriedky plánujeme použiť na zabezpečenie prevádzky a zlepšenie experimentálnej infraštruktúry a na začlenenie mladých vedeckých pracovníkov a post-docov (aj zo zahraničia) do jednotlivých výskumných tímov a smerov.

**2.3. Najvýznamnejšie výsledky vedeckej práce** (maximálne 1000 znakov + 1 obrázok)

**2.3.1. Základný výskum**

I. miesto

**Nový prístup ku riadenému samousporiadaniu homopolymérov do stabilných nanočastíc**

**Projekt**: VEGA 2/0182/14

**Autori**: M. Sedlák

Nový originálny zdola-nahor („bottom-up“) prístup k príprave polymérnych nanočastíc. K príprave potrebné len homopolyméry (nie kopolyméry), len jedného druhu, a bez potreby akýchkoľvek aditív. Prístup založený na riadenom samousporiadaní termoresponzivnych homopolymérov typu poly(alkylakrylových kyselín). Analýza mechanizmov vedúcich k stabilným nanočasticiam na molekulárnej úrovni. Prevencia makroskopickej fázovej separácie ako konkurenčnému procesu na báze bariéry v dôsledku vysokého povrchového zeta potenciálu zárodočných jadier začínajúcej fázovej separácie a entropickému zisku protiiónov v systéme. Stabilita častíc (nevratnosť procesu) dosiahnutá vodíkovými väzbami, najmä typu COOH.....COO- medzi protonovanými a ionizovanými karboxylovými skupinami. Analýza vplyvu ďalších efektov ako Rayleighova nestabilita nabitých polymérnych reťazcov a ich agregátov, koncentračne a konformačne závislá kondenzácia protiiónov, porovnanie s analogickými systémami neutrálnych polymérov, spôsoby a metódy dekompozície (rozpadu) nanočastíc. Publikácia vo vysoko impaktovanom časopise (5 –ročný impakt faktor v čase podávania publikácie rovný 10.42).

M. Sedlák. *A Novel Approach to Controlled Self-Assembly of pH-Responsive Thermosensitive Homopolymer Polyelectrolytes into Stable Nanoparticles*. Advances in Colloid and Interface Science, Volume 232, June 2016, Pages 57–69 (5-year IF = 10.42)

II. miesto

**Topologické efekty v supravodičoch**

**Projekty**: APVV-0036-11, APVV- 14-0605, VEGA 2/0135/13

**Riešitelia**: P. Samuely, P. Szabó, J. Kačmarčík, Z. Pribulová, V. Hašková, Z. Medvecká

Študovali sme niekoľko topologických efektov v supravodičoch. Pomocou subkelvinovej STM spektroskopie sme po prvýkrát dokázali existenciu fermiónového mechanizmu prechodu supravodič-izolant ako alternatívy ku známemu bozónovému mechanizmu [1]. Ukázali sme, že rozhranie medzi ultratenkým supravodivým MoC filmom a podložkou hrá významnú úlohu. V mnohopásovom supravodiči Bi2Pd sme pomocou viacerých experimentálnych techník zistili, že masívna časť vzorky sa chová ako štandardný BCS supravodič, zatiaľ čo na povrchu môžu existovať topologicky chránené stavy [2]. V meďou dopovanom TiSe2, kde koexistuje usporiadanie vĺn nábojovej hustoty a supravodivosti, sme pozorovali extrémne silné uzamknutie supravodivých vírov vo van der waalsovsky slabo viazaných kryštalických rovinách a to aj v magnetických poliach silne odklonených od týchto rovín [3].

[1] P. Szabó, T. Samuely, V. Hašková, J. Kačmarčík, M. Žemlička, M. Grajcar, J. G. Rodrigo, and P. Samuely, *Fermionic scenario for the destruction of superconductivity in ultrathin MoC films evidenced by STM measurements*, Phys. Rev. B 93, 014505 (2016).

[2] J. Kačmarčík, Z. Pribulová, T. Samuely, P. Szabó, V. Cambel, J. Šoltýs, E. Herrera, H. Suderow, D. Prabhakaran, and P. Samuely, *Single-gap superconductivity in ß-Bi2Pd*, Phys. Rev. B 93, 144502 (2016).

[3] Z. Medvecká, T. Klein, V. Cambel, J. Šoltýs, G. Karapetrov, F. Levy-Bertrand, B. Michon, C. Marcenat, Z. Pribulová, and P. Samuely, *Observation of a transverse Meissner effect in CuxTiSe2 single crystals*, Phys. Rev. B 93, 100501(R) (2016).

**2.3.2. Aplikačný typ**

I. miesto

**Rýchlochladené amorfné a nanokryštalické zliatiny pre GMI senzory**

**Projekty**: APVV-15-0621, APVV-0492-11, VEGA 2/0173/16

**Riešitelia**: I. Škorvánek, J. Marcin, F. Andrejka

Materiály vykazujúce efekt obrovskej magnetoimpedancie (GMI) majú sľubný aplikačný potenciál v ultracitlivých magnetických senzoroch. V našich experimentoch sme sa zamerali na cielené ovplyvňovanie magneticky mäkkých vlastností a optimalizáciu geometrických rozmerov rýchlochladených amorfných a nanokryštalických tenkých pások za účelom zvýšenia odozvy ich GMI charakteristík na veľmi malé zmeny okolitého magnetického poľa. Konkrétne sa jednalo o zliatinové systémy Fe-Nb-Cu-Si-B a Fe-Co-B-(Nb)-Si-Cu v tvare jednovrstvových a dvojvrstvových tenkých pások kde sme sa venovali najmä štúdiu efektov tepelného spracovania vo vonkajšom magnetickom poli resp. využitím techniky Joulovho ohrevu na ich impedančné charakteristiky. U oboch typov zliatin boli pozorované vyššie hodnoty GMI efektu po tepelnom spracovaní v porovnaní s východiskovým materiálom. V prípade dvojvrstvových pások sme v oblasti nižších frekvencií pozorovali podstatne vyššie hodnoty GMI efektu ako u jednovrstvových páskok toho istého zloženia. Najvyššia citlivosť GMI efektu na malé magnetické polia (∼65%/Oe pri 3 MHz) bola dosiahnutá pre nanokryštalickú dvojvrstvu Fe-Cu-Nb-Si-B žíhanú v priečnom magnetickom poli. Zvýšená citlivosť impedancie dvojvrstvových tenkých kovových pások na vonkajšie magnetické polia je atraktívna pre ich využitie v GMI senzorových elementoch.

L. Gonzalez-Legarreta, F. Andrejka, J. Marcin, P. Švec , M. Varga, D. Janičkovič, P. Švec Sr., I. Škorvánek, *Magnetoimpedance effect in nanocrystalline Fe73.5Cu1Nb3Si13.5B9 single-layer and bilayer ribbons,* Journal of Alloys and Compounds 688, p. 94-100, (2016)

T. Eggers, A. Leary, M. McHenry, J. Marcin, I. Škorvánek, H. Srikanth, M.H. Phan, *Correlation between domain structure, surface anisotropy and high frequency magneto-impedance in Joule annealed CoFe-based meltspun ribbons,* Journal of Alloys and Compounds 682, p. 799-804, (2016)

II. miesto

**Vývoj elektronického čípu pre sériový prenos trigrovacích dát v experimente Atlas**

**Projekty:** Experiment ATLAS na LHC v CERN: 0207/2016

**Riešitelia**: J.Bán

Atlas experiment (fungujúci na urýchľovači častíc v Cern-e) v blízkej budúcnosti bude potrebovať novú elektroniku pre svoj trigrovaci systém. Potreba je odrazom nových požiadaviek na nižší energetický prah trigrovaných častíc a zvýšenú radiáciu prostredia v ktorom má triggrovacia elektronika pracovať. Vyvinutý číp má vysielať dáta z Larg detektora s použitím optického vlákna (medzi LTDB kartou front-endu a trigger systémom). Zdrojom dát je NevisADC číp. Serializačný číp obsahuje dva kanály úplnej serializačnej logiky (aj s scramblerom), pracujúcich na 4.8GHz, pričom jeho výstup je kompatibilný s driverom optického kábla. Tento číp je súčasťou širšieho úsilia o vývoj nového kompletného súboru čípov pre spracovanie dát z kalorimetra na báze tekutého Argónu, v podmienkach Super LHC.

**2.3.3. Medzinárodné vedecké projekty**

I. miesto

**Inhibítory amyloidnej agregácie proteínov**

**Projekty**: COST 083/14 action BM1405, MVTS-COST 083/14, ŠF EÚ 26220220005, VEGA 2/0181/13, VEGA 2/0176/14

**Riešitelia**: Z. Gažová, Z. Bednáriková, D. Fedunová, K. Uličná

Látky schopné redukovať množstvo poly/peptidových amyloidných agregátov majú veľký potenciál byť využité na liečbu amyloidných ochorení, medzi ktoré patrí aj Alzheimerova choroba (ACH). Študovali sme účinok fulerenolu na amyloidnú agregáciu Aβ peptidu tvoriaceho amyloidné plaky v mozgu pacientov s ACH. Nami nasyntetizovaný fulerenol so 16 hydoxylovými skupinami naviazanými na povrchu fulerénu C60 bol schopný efektívne inhibovať tvorbu amyloidných agregátov. Kľúčovú úlohu pri tomto procese zohrávali najmä elektrostatické interakcie postranných reťazcov Aβ peptidu a OH skupín na povrchu fulerenolu, ktoré viedli k zvýšeniu flexibility soľného mostíka medzi aminokyselinami D23 a K28 zodpovedného za vznik amyloidogénnych štruktúr.

ACH je multifaktorové ochorenie, preto sa v súčasnej dobe hľadajú látky, ktoré okrem účinku na amyloidnú agregáciu sú schopné ovplyvňovať aj ďalšie procesy spojené s týmto ochorením. Zistili sme, že takrín-kumarínové deriváty by mohli byť využité ako multitargetové terapeutiká. Deriváty boli schopné inhibovať tvorbu amyloidných fibríl Aβ peptidu ako aj vychytávať voľné radikály tvoriace sa pri ACH a účinne inhibovať aktivitu cholínesteráz.

Odlišnou stratégiou pri hľadaní efektívnych inhibítorov amyloidnej agregácie proteínov je využitie krátkych peptidov s aminokyselinovou sekvenciou totožnou s amyloidogénnou oblasťou daného proteínu. Zistili sme, že fragment R107-R115 odpovedajúci amyloidogénnej oblasti lyzozýmu má schopnosť inhibovať tvorbu amyloidných agregátov tohto proteínu. Bodová mutácia fragmentu, ktorá spôsobila zvýšenie jeho náboja viedla k zvýšeniu inhibičnej aktivity. Zaujímavým však bolo zistenie, že pre fragment s bodovou mutáciou spojenou so zvýšením hydrofobicity nebola pozorovaná žiadna schopnosť potlačiť tvorbu amyloidných agregátov.

Bednarikova Z., Huy P.D.Q., Mocanu M.M., Fedunova D., Li M.S., Gazova Z.: *Fullerenol C60(OH)16 prevents amyloid fibrillization of Aβ40 – in vitro and in silico approach*. Physical Chemistry Chemical Physics, 18, 18855-18867 (2016)

Hamulakova S., Poprac P., Jomova K., Brezova V., Lauro P., Drostinova L., Jun D., Sepsova V., Hrabinova M., Soukup O., Kristian P., Gazova Z., Bednarikova Z., Kuca K., Valko M.: *Targeting copper(II)-induced oxidative stress and the acetylcholinesterase system in Alzheimer's disease using multifunctional tacrine-coumarin hybrid molecules*. Journal of Inorganic Biochemistry, 161, 52-62 (2016)

Kar R.K., Gazova Z., Bednarikova Z., Mroue K.H., Ghosh A., Zhang R., Ulicna K., Siebert H.-Ch., Nifantiev N.E., Bhunia A.: *Evidence for Inhibition of Lysozyme Amyloid Fibrillization by Peptide Fragments from Human Lysozyme: A Combined Spectroscopy, Microscopy and Docking Study*. Biomacromolecules, 17 (6), 1998-2009 (2016)

II. miesto

**Vplyv tlaku a/alebo substitúcie na silne korelované elektrónové a supravodivé systémy**

**Projekty**: VEGA 2/0032/16, VEGA 2/0106/13, APVV-14-0605, APVV 0132-11, CFNT MVEP - the Center of Excellence of the SAS, EU ERDF-ITMS26110230097

**Riešitelia**: S. Gabáni, K. Flachbart, G. Pristáš, E. Gažo, M. Orendáč

SmB6 je ťažkofermiónový polovodič s úzkym zakázaným pásom v okolí Fermiho hladiny, najnovšie označovaný ako prvý 3D topologický Kondov izolátor, teda silne korelovaný elektrónový systém vykazujúci topologické povrchové vodivostné stavy zodpovedné za zvyškovú vodivosť. Naše štúdium vplyvu substitúcie zmiešanovalenčného iónu samária (Sm2,5+) iónmi La3+, Eu2+, Yb2+, Sr2+ a vakanciami na SmB6 meraním elektrického magnetotransportu spolu so štúdiom vplyvu vysokého tlaku (do 9 GPa) na SmB6 meraním 11B-JMR, po prvýkrát poukázalo na komplexné správanie sa zmeny veľkosti hybridizačnej medzery a pásovej štruktúry v okolí tejto medzery so zmenou koncentrácie substituentov a tlaku. Ďalej sa náš výskum zaoberal potlačením supravodivosti v systéme LuxZr1-xB12 vplyvom vzniku spin-polarizovaných magnetických nanodomén v okolí nemagnetického iónu Lu3+. Štúdium vplyvu magnetického poľa a teploty na fázový diagram špirálového magnetu Mn1-xFexSi poukázal na existenciu novej spin-polarizovanej (feromagnetickej) fázy pri veľmi nízkych teplotách. Zavedením novej metódy merania ac-susceptibility do 3 GPa a taktiež meraním Ramanovho rozptylu do 14 GPa bolo možné zrealizovať štúdium vplyvu tlaku na Ginzburgov-Landauov parameter a na Einsteinov fonónový mód supravodiča YB6.

S. Gabáni, M. Orendáč, G. Pristáš, E. Gažo, P. Diko, S. Piovarči, V. Glushkov, N. Sluchanko., A. Levchenko, N. Shitsevalova, K. Flachbart: *Transport properties of variously doped SmB6*. Philosophical Magazine 96, 3274-3283 (2016).

K. Nishiyam, T. Mito, G. Pristáš, T. Koyama, K. Ueda, T. Kohara, S. Gabáni, K. Flachbart, H. Fukazawa, Y. Kohori, N. Takeshita, N. Shitsevalova, H. Ikeda: *High-pressure induced modi?cations in the hybridization gap of the intermediate-valence compound SmB6*. Physical Review B 93, R121111 (2016).

N.E. Sluchanko, A.N. Azarevich, M.A. Anisimov, A.V. Bogach, S.Yu. Gavrilkin, M.I. Gilmanov, V.V. Glushkov, S.V. Demishev, A.L. Khoroshilov, A.V. Dukhnenko, K.V. Mitsen, N.Yu. Shitsevalova, V.B. Filippov, V.V. Voronov, K. Flachbart: *Suppression of superconductivity in LuxZr1-xB12: Evidence of static magnetic moments induced by nonmagnetic impurities*. Physical Review B 93, 085130 (2016).

S.V. Demishev, I.I. Lobanova, A.V. Bogach, V.V. Glushkov, V.Yu. Ivanov, T.V. Ischenko, N.A. Samarin, N.E. Sluchanko, S. Gabáni, E. Čižmár, K. Flachbart, N.M. Chubova, V.A. Dyadkin, S.V. Grigoriev: *Effect of a magnetic field on the intermediate phase in Mn1-xFexSi: Spin-liquid versus fluctuations scenario. Journal of Experimental and Theoretical Physics Letters 103, 321-327 (2016).*

S. Gabáni, M. Orendáč, J. Kušní&shy;r, E. Gažo, G. Pristáš, T. Mori, K. Flachbart: *Pressure dependence of the Ginzburg-Landau parameter in superconducting YB6*. Journal of Low Temperature Physics (2016). DOI 10.1007/s10909-016-1725-3.

M. Orendáč, S. Gabáni, E. Gažo, G. Pristáš, T. Mori, K. Flachbart, X. Wang, K. Kamenev: *Pressure effect on the Einstein-like phonon mode in superconducting YB6*. Journal of Low Temperature Physics (2016). DOI 10.1007/s10909-016-1728-0.

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

Tabuľka 2e Štatistika vybraných kategórií publikácií

|  |  |  |  |
| --- | --- | --- | --- |
| **PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ** | **A  Počet v r. 2016/ doplnky z r. 2015** | **B  Počet v r. 2016/ doplnky z r. 2015** | **C  Počet v r. 2016/ doplnky z r. 2015** |
| **1. Vedecké monografie a monografické štúdie vydané v domácich vydavateľstvách**  (AAB, ABB) | **0 / 0** | **0 / 0** | **0 / 0** |
| **2. Vedecké monografie a monografické štúdie vydané v zahraničných vydavateľstvách**  (AAA, ABA) | **0 / 0** | **0 / 0** | **0 / 0** |
| **3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané v domácich vydavateľstvách** (BAB, ACB, CAB) | **0 / 0** | **0 / 0** | **0 / 0** |
| **4. Odborné monografie a vysokoškolské učebnice a učebné texty vydané v zahraničných vydavateľstvách** (BAA, ACA, CAA) | **0 / 0** | **0 / 0** | **0 / 0** |
| **5. Kapitoly vo vedeckých monografiách vydaných v domácich vydavateľstvách** (ABD) | **0 / 0** | **0 / 0** | **0 / 0** |
| **6. Kapitoly vo vedeckých monografiách vydaných v zahraničných vydavateľstvách** (ABC) | **0 / 0** | **0 / 0** | **0 / 0** |
| **7. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v domácich vydavateľstvách** (BBB, ACD) | **0 / 0** | **0 / 0** | **0 / 0** |
| **8. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v zahraničných vydavateľstvách** (BBA, ACC) | **0 / 0** | **0 / 0** | **0 / 0** |
| **9. Vedecké práce registrované v Current Contents Connect**  (ADCA, ADCB, ADDA, ADDB) | **219 / 3** | **0 / 0** | **0 / 0** |
| **10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus**  (ADMA, ADMB, ADNA, ADNB) | **18 / 2** | **0 / 0** | **0 / 0** |
| **11. Vedecké práce v ostatných domácich časopisoch**  (ADFA, ADFB) | **0 / 0** | **0 / 0** | **0 / 0** |
| **12. Vedecké práce v ostatných zahraničných časopisoch**  (ADEA, ADEB) | **2 / 0** | **0 / 0** | **0 / 0** |
| **13. Vedecké práce v domácich recenzovaných zborníkoch**  (AEDA) | **0 / 0** | **0 / 0** | **0 / 0** |
| **14. Vedecké práce v zahraničných recenzovaných zborníkoch**  (AECA) | **0 / 0** | **0 / 0** | **0 / 0** |
| **15. Publikované príspevky na domácich vedeckých konferenciách**  (AFB, AFD) | **3 / 0** | **0 / 0** | **0 / 0** |
| **16. Publikované príspevky na zahraničných vedeckých konferenciách**  (AFA, AFC) | **0 / 0** | **0 / 0** | **0 / 0** |
| **17. Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS** | **0** | **0** | **0** |
| **18. Ostatné vydané periodiká** | **0** | **0** | **0** |
| **19. Vydané alebo editované zborníky z vedeckých podujatí**  (FAI) | **3 / 1** | **0 / 0** | **0 / 0** |
| **20. Preklady vedeckých a odborných textov**  (EAJ) | **0 / 0** | **0 / 0** | **0 / 0** |
| **21. Heslá v odborných terminologických slovníkoch a encyklopédiách**  (BDA, BDB) | **0 / 0** | **0 / 0** | **0 / 0** |

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

Tabuľka 2f Štatistika vedeckých prác podľa kvartilu vedeckého časopisu

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Kvartil vedeckého časopisu podľa IF z r. 2015 (zdroj JCR)** | **Q1** | **Q2** | **Q3** | **Q4** | **spolu** |
| *Počet článkov / doplnky* | 157/1 | 27/1 | 6/0 | 6/0 | 196/2 |
| **Kvartil vedeckého časopisu podľa SJR z r. 2015 (zdroj Scimago)** |  |  |  |  |  |
| *Počet článkov* | 141 | 50 | 6 | 3 | 200 |

Tabuľka 2g Ohlasy

|  |  |  |
| --- | --- | --- |
| **OHLASY** | **A  Počet v r. 2015/ doplnky z r. 2014** | **B  Počet v r. 2015/ doplnky z r. 2014** |
| **Citácie vo WOS (1.1, 2.1)** | 3543 / 7 | 1 / 0 |
| **Citácie v SCOPUS (1.2, 2.2)** | 40 / 0 | 0 / 0 |
| **Citácie v iných citačných indexoch a databázach (9, 10,   3.2, 4.2)** | 0 / 0 | 0 / 0 |
| **Citácie v publikáciách neregistrovaných v citačných   indexoch (3, 4, 3.1, 4.1)** | 2 / 0 | 0 / 0 |
| **Recenzie na práce autorov z organizácie (5, 6, 7, 8)** | 0 / 0 | 0 / 0 |

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

**2.5. Aktívna účasť na vedeckých podujatiach**

Tabuľka 2h Vedecké podujatia

|  |  |
| --- | --- |
| **Prednášky a vývesky na medzinárodných vedeckých podujatiach** | 117 |
| **Prednášky a vývesky na domácich vedeckých podujatiach** | 9 |

**2.6. Vyžiadané prednášky**

**2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach**

1 AFB 240668

ŠVEC, Peter Jr. - JANOTOVÁ, Irena - ZIGO, Juraj - MAŤKO, Igor - JANIČKOVIČ, Dušan - MARCIN, Jozef - ŠKORVÁNEK, Ivan - **ŠVEC, Peter**. Development of selected amorphous and nanocrystalline soft magnetic systems with enhanced functional properties. In *16th Czech and Slovak Conference on Magnetism : Book of Abstracts. Košice, 13.-17.6.2016*. Ed. P. Sovák et al. - Košice : UPJŠ and ÚEF SAV, 2016, p. 85. ISBN 978-80-971450-9-5.(Czech and Slovak conference on magnetism).

2 AFE 242240

**SZABÓ, Pavo**l. STM studies of the superconductor-insulator transition in MoC ultrathinthin films. In *SUPERSTRIPES 2016 : Quantum in Complex Matter: Superconductivity, Magnetism, Ferroelectricity, June 23-29, 2016, Ischia, Italy*. - [S.l.:s.n], 2016, p. 9.(SUPERSTRIPES 2016 : Quantum in Complex Matter: Superconductivity, magnetism, Ferroelectricity).

3 AFE 242272

**ŠKORVÁNEK, Ivan**. Advanced Nanocrystalline Magnetic Materials for Energy and Sensor Applications. In *NANOCON 2016 : 8th International Conference on Nanomaterials - Research and Application, October 19 - 21, 2016, Brno, Czech Republic*. - Ostrava : Tanger Ltd., 2016, p. 33. ISBN 978-80-97294-68-0.( NANOCON 2016 : International Conference on Nanomaterials - Research and Application).

4 AFE 242274

**SZABÓ, Pavol**. Szupravezetés erôsen rendezetlen rendszerekben. MoC vékonyrétegek szupravezetô-szigetelô átmenet közelében (prednnáška v maďarskom jazyku). In Magyar Fizikus Vándorgyűlés 2016, August 24-27, Szeged: *Fizikai Szemle*, 2016, no. 7-8, p. IV. ISSN 0015-3257.

5 AFE 242278

**SAMUELY, Peter.** Interplay between superconductivity and charge density waves in CuxTiSe2. In *SUPERSTRIPES 2016 : Quantum in Complex Matter: Superconductivity, Magnetism, Ferroelectricity, June 23-29, 2016, Ischia, Italy*. P. 31. - [S.l.:s.n], 2016.(SUPERSTRIPES 2016 : Quantum in Complex Matter: Superconductivity, magnetism, Ferroelectricity).

6 AFE 242279

**SZABÓ, Pavol** - HAŠKOVÁ, Veronika - SAMUELY, Tomáš - KAČMARČÍK, Jozef - ŽEMLIČKA, M. - GRAJCAR, M. - RODRIGO, J.G. - SAMUELY, Peter. STM studies of the superconductor-insulator transition in MoC ultrathin films. In *Probing Superconductivity at the Nanoscale: New advances, saas-Fee, Switzerland, April 12-15, 2016 : COST MP-1201 NanoSC Workshop*. - [S.l. : s.n], p. 6.(Probing Superconductivity at the Nanoscale: New advances : COST-MP-1201 NanoSC Workshop).

7 AFE 242280

MEDVECKÁ, Zuzana - PRIBULOVÁ, Zuzana - SZABÓ, Pavol - KAČMARČÍK, Jozef - KLEIN, T. - LEVY-BERTRAND, F. - MARCENAT, C. - KARAPETROV, Goran - IAVARONE, M. - **SAMUELY, Peter**. Interplay of CDW and superconducting orders in copper vdoped TiSe2 single crystals. In *Probing Superconductivity at the Nanoscale: New advances, Saas-Fee, Switzerland, April 12-15, 2016 : COST MP-1201 NanoSC Workshop*. - [S.l. : s.n], p. 20.(Probing Superconductivity at the Nanoscale: New advances : COST-MP-1201 NanoSC Workshop).

1. AFF 242446

**DIKO, Pavel** - KAVEČANSKÝ, Viktor - PIOVARČI, Samuel - RYBA, Tomáš - VARGOVÁ, Zuzana - VARGA, Rastislav. Microstructure of Heuser allys prepared by mould casting and melt spinning. In *Metallography´16 : 16th international symposium on metallography and materials science. Abstract booklet.*. Stará Lesná, High Tatra Mountains, Slovak Republic, 20th - 22nd April 2016. - 2016, p. 21. ISBN 978-80-553-2547-7.

9 SAMUELY, Peter - SZABÓ, P.- KAČMARČÍK, Jozef - ŽEMLIČKA, M. - GRAJCAR, M.. Influence of magnetic field on the Altshuler-Aronov effect in homogeneously disordered ultrathin superconducting MoC films. In *Nano confined superconductors and their application, Garmisch-Partenkirchen, Germany, September 3-7, 2016: COST MP-1201 Workshop*. - [S.l. : s.n], p. 32.(Nano confined superconductors and their application: COST-MP-1201 Workshop).

10 **SZABÓ, Pavol**. Scanning tunneling spectroscopy of SrPd2Ge2 single crystal, isostructural with 122 iron pnictides.In *IBS 2016: International workshop Advances in preparation and investigation of emergent iron-based superconductors, 23 – 25 May 2016, Dresden, Germany*.

11 **SAMUELY, Peter**. Interplay of charge density waves and superconductivity in copper doped TiSe2. In *IBS 2016: International workshop Advances in preparation and investigation of emergent iron-based superconductors, 23 – 25 May 2016, Dresden, Germany.*

12 **P. DIKO**, M. RADUŠOVSKÁ, S. PIOVARČI, C.-J. KIM, B.-H. JUN, S.-D. PARK, M. MURALIDHAR, Microstructure of IS YBCO Bulk Superconductors, Symposium on Materials for Energy and Environment Sustainability, December 16th, 2016 at Shibaura Institute of Technology, Tokyo, Japan.

13 PRIBULOVÁ, Zuzana - MEDVECKÁ, Zuzana - KAČMARČÍK, Jozef – SZABÓ, P – SAMUELY, T. - KLEIN, T. - LEVY-BERTRAND, F. - MARCENAT, C. - KARAPETROV, Goran - IAVARONE, M. - SAMUELY, Peter. Competing orders of CDW superconductivity in copper doped TiSe2. STM, AC calorimetry and Hall-probe magnetometry studies. In *5th International Conference on Superconductivity and Magnetism, Fethiye, Turkey, April 24-30, 2016*. [S.l. : s.n], p. 221.(International Conference on Superconductivity and Magnetism: ICSM2016).

14 **KOPCANSKY, Peter -**  TOMASOVICOVA, Natália - TIMKO, Milan - GDOVINOVA, Veronika - MAJOROSOVA, Jozefína - EBER, Nandor - TOTH-KATONA, Tibor - JADZYN, Jan - HARAMUS, Vasyl - AVDEEV, Mikhail - PETRENKO, Viktor - RAIKHER, Y. Ferronematics – Way To Liquid Crystalline Sensor of Magnetic Field. In *14th International Conference on Magnetic Fluids, 4.-8.7. 2016, Ekaterinburg, Rusko*

15 **KOPCANSKY, Peter** - TOMASOVICOVA, Natália - TIMKO, Milan - GDOVINOVA, Veronika - MAJOROŠOVÁ, Jozefína - EBER, Nandor- TOTH‐KATONA, Tibor - CHIN‐KUN HU, HAYRYAN, Shura - HARAMUS, Vasyl - PETRENKO, Viktor - AVDEEV, Mikhail - CHAUD, Xavier - HNATIC, Michal. Ferronematics‐ the way to magnetovision camera. *In 10th PAMIR International Conference Fundamental and Applied MHD PAMIR 2016, Cagliari, June 20 - 24, 2016 - Cagliari - Sardinia (Italy).*

16 **KOPCANSKY, Peter -**  TOMASOVICOVA, Natália - TIMKO, Milan - GDOVINOVA, Veronika - MAJOROSOVA, Jozefína - EBER, Nandor - TOTH-KATONA, Tibor – JADZYN, Jan. Liquid crystal doped by magnetic fluids. In *XI Conference on Liquid Crystals Chemistry, Physics and Applications CLC’2016, 18 – 23 September, 2016, Krynica-Zdrój, POLAND*

17 MOLČAN, Matúš - **TIMKO, Milan** - PETRENKO, Viktor - AVDEEV, Mikhail - IVANKOV, O.I. - GARAMUS, Vasyl - SKUMIEL, Andej - KUBOVCIKOVA, Martina - PAULOVICOVA, Katarina - KOPCANSKY, Peter. Structure and Hyperthermia Characterization of the Magnetosomes Solutions. In *14th International Conference on Magnetic Fluids, 4.-8.7. 2016, Ekaterinburg, Rusko*

18 **TIMKO, Milan** - RAJNAK, Michal - KOPCANSKY, Peter - PAULOVICOVA, Katarina - KURIMSKY, Juraj – DOLNIK, Bystrik. Dielectric relaxations in a transformer oil‐based magnetic fluid.In *10th PAMIR International Conference Fundamental and Applied MHD PAMIR 2016, Cagliari, June 20 - 24, 2016 - Cagliari - Sardinia (Italy).*

19 **TIMKO, Milan**. Physical properties of bacterially synthesized magnetic nanoparticles. In *PHYSICS OF LIQUID MATTER: MODERN PROBLEMS" (PLMMP-2016) May 27-30, 2016, Kiiv, Ukraine*

20 **KOPCANSKY, Peter.** Magnetic fluids and their complex systems. In *PHYSICS OF LIQUID MATTER: MODERN PROBLEMS" (PLMMP-2016) May 27-30, 2016, Kiiv, Ukraine*

21 **KOPCANSKY, Peter -**  TOMASOVICOVA, Natália - GDOVINOVA, Veronika - TIMKO, Milan. Magnetically anisotropic composite systems. In *45th WINTER SCHOOL on WAVE and QUANTUM ACOUSTICS 2016, 12th Workshop on Molecular Acoustics, Relaxation and Calorimetric Methods, Szczyrk, Poland, 2012-02-29 2012-03-03*

22 **TIMKO, Milan** - MOLCAN, Matúš - RAJNAK, Michal - KOPCANSKY Peter. Hyperthermic effect in mechanically treated magnetosomes. In *45th WINTER SCHOOL on WAVE and QUANTUM ACOUSTICS 2016, 12th Workshop on Molecular Acoustics, Relaxation and Calorimetric Methods, Szczyrk, Poland, 2012-02-29 2012-03-0*

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

1 **K. Kudela**: 2016, Kvázi-periodické variácie kozmického žiarenia na zemskom povrchu: niekoľko poznámok, Zborník referátov z 23. celoštátneho slnečného seminára, Liptovský Mikuláš 2016, Ivan Dorotovič (ed.), SÚH Hurbanovo, 27.pdf (vydané na DVD, ISBN: 978-80-85221-92-3).

2 **Ján Baláž**, Misia ROSETTA – prvé pristátie v histórii na kométe, 22. konferencie slovenských fyzikov, Košice, 5.-8. september 2016

3 **Pavol Bobík**, JEM-EUSO experiment, hľadanie najenergetickejších častíc vo vesmíre, 22. konferencie slovenských fyzikov, Košice, 5.-8. september 2016

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

1 GAŽOVÁ, Zuzana. Study of amyloid self-assembly. *Instituto per lo studio materiali nanostrutturati CNR, Bologna, Italy, 19. October 2016*

2 GAŽOVÁ, Zuzana. Amyloid aggregation of proteins – mechanism and inhibition. *School of Pharmacy, East China University of Science and Technology, 24. 11. 2016*

**2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2016**

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

**2.7.2. Prihlásené vynálezy**

Na Slovensku - počet patentov: 2

Číslo PV: PP50070-2016

Mená autorov: Tomori Zoltán

Názov vynálezu: Spôsob interaktívnej kvantifikácie digitalizovaných 3D objektov pomocou kamery snímajúcej pohľad

Majiteľ / spolumajiteľ: Ústav exprimentálnej fyziky Slovenskej Akadémie Vied, Watsonova 47, 04001 Košice

Číslo PV: PP50015-2016

Mená autorov: Sedlák Marián, Rak Dmytro

Názov vynálezu: Spôsob čistenia organických vodorozpustných látok od hydrofóbnych kontaminantov

Majiteľ / spolumajiteľ: Ústav exprimentálnej fyziky Slovenskej Akadémie Vied, Watsonova 47, 04001 Košice

V zahraničí - počet patentov: 2

Číslo PV: PP 106745-2016

Mená autorov: Kopčanský Peter, Timko Milan, Studenyak I.P., Kovalchuk O.V., Bendak A.V., Pal Ju.O.

Názov vynálezu: Spôsob zvýšenia elektrickej vodivosti nematického kryštálu pomocou pridania superionických nanočastíc

Majiteľ / spolumajiteľ: Štátna vysoká škola „Uzhhorod State University“ Pidhirna 46, Uzhgorod, 88000, UA

Krajina: Ukrajina

Číslo PV: PP 111241-2016

Mená autorov: Kopčanský Peter, Timko Milan, Studenyak I.P., Kovalchuk O.V., Bendak A.V., Studenyak V.I.

Názov vynálezu: Spôsob zvýšenia elektrickej vodivosti nematického kryštálu 6CHBT pridaním superionických nanočastíc Cu6PS5I.

Majiteľ / spolumajiteľ: Štátna vysoká škola „Uzhhorod State University“ Pidhirna 46, Uzhgorod, 88000, UA

Krajina: Ukrajina

**2.7.3. Predané licencie**

**2.7.4. Realizované patenty**

*Finančný prínos pre organizáciu SAV v roku 2016 a súčet za predošlé roky sa neuvádzajú, ak je zverejnenie v rozpore so zmluvou súvisiacou s realizáciou patentu.*

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

Tabuľka 2i Experti hodnotiaci národné projekty

|  |  |  |
| --- | --- | --- |
| **Meno pracovníka** | **Typ programu/projektu/výzvy** | **Počet hodnotených projektov** |
| Baláž Ján | APVV | 2 |
| Csach Kornel | VEGA | 1 |
| Čenčariková Hana | VVGS | 1 |
| Diko Pavel | VEGA | 2 |
| Fedunová Diana | VVGS | 1 |
| Gažová Zuzana | VEGA | 1 |
| Kováč Jozef | VEGA | 1 |
| Musatov Andrey | VEGA | 1 |
|  | VVGS-UPJŠ | 4 |
| Szabó Pavol | APVV | 1 |
|  | VEGA | 1 |
| Šipošová Katarína | VVGS-UPJŠ | 1 |
| Timko Milan | APVV | 1 |

**2.9. Účasť na spracovaní hesiel do encyklopédie Beliana**

Počet autorov hesiel: 0

**2.10. Iné informácie k vedeckej činnosti.**

Výskumníci ÚEF SAV oponovali vedecné články v najvýznamnejších vedeckých časopisoch:

Nature, Phys. Rev. Lett., Phys.Rev. E, Phys. Rev. B, Supercond. Sci. and Technol., Material Chemistry and Physics, Physica Status Solidy, Physica Scripta, Crystal Growth & Design, Journal of Physics, Journal of Physical Chemistry, Journal of Physical Chemistry Letters, Advanced Engineering Materials, Journal of Materials and Product Technology, Scripta Materialia, Crystal Growth&Design, Materials Letters, J. Alloys and Compounds, JMMM,...

Adv. Space Res., Astrophys. J. Lett., Advances in Space Research, Journal of Atmospheric and Solar-Terrestrial Physics, J. Phys. Conf. Ser., Advances in Astronomy, J. Geophys. Res.,

Space Weather & Space Climate, Nuclear Instrum. & Methods, Solar Phys., Atmos. Res.,

Earth, Planets and Space,...

IEEE Transactions on Human-Machine Systems, Computer Vision and Image Understanding, FEBS Letters, Biochemistry, Analytical Biochemistry, Food & Function (RSC), International Journal of Biological Macromolecules (Elsevier), Journal of Physical Chemistry B, Current Medicinal Chemistry, NANO,...

**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 2016

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Forma** | **Počet k 31.12.2016** | | | | **Počet ukončených doktorantúr v r. 2016** | | | | | |
|  | **Doktorandi** | | | | **Ukončenie z dôvodov** | | | | | |
|  | celkový počet | | z toho novoprijatí | | ukončenie úspešnou obhajobou | | predčasné ukončenie | | neúspešné ukončenie | |
| M | Ž | M | Ž | M | Ž | M | Ž | M | Ž |
| **Interná zo zdrojov SAV** | 9 | 9 | 6 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| **Interná z iných zdrojov** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| **Externá** | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Spolu** | 10 | 9 | 6 | 0 | 0 | 2 | 0 | 1 | 0 | 0 |
| **Súhrn** | 19 | | 6 | | 2 | | 1 | | 0 | |

**3.2. Zmena formy doktorandského štúdia**

Tabuľka 3b Počty preradení z interných foriem na externé a z externej formy na interné

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Pôvodná forma** | **Interná z prostriedkov SAV** | **Interná z prostriedkov SAV** | **Interná z iných zdrojov** | **Interná z iných zdrojov** | **Externá** | **Externá** |
| **Nová forma** | **Interná z iných zdrojov** | **Externá** | **Interná z prostriedkov SAV** | **Externá** | **Interná z prostriedkov SAV** | **Interná z iných zdrojov** |
| **Počet** | 0 | 0 | 0 | 0 | 0 | 0 |

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

Tabuľka 3c Menný zoznam ukončených doktorandov v roku 2016 úspešnou obhajobou

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Meno doktoranda** | **Forma DŠ** | **Mesiac, rok nástupu na DŠ** | **Mesiac, rok obhajoby** | **Číslo a názov študijného odboru** | **Meno a organizácia školiteľa** | **Fakulta udeľujúca vedeckú hodnosť** |
| Ing. Mária Huráková | interné štúdium hradené z prostriedkov SAV | 9 / 2012 | 8 / 2016 | 5.2.26 materiály | RNDr. Kornel Csach CSc., Ústav experimentálnej fyziky SAV | Hutnícka fakulta TUKE |
| Ing. Monika Radušovská | interné štúdium hradené z prostriedkov SAV | 9 / 2010 | 3 / 2016 | 5.2.26 materiály | Ing. Pavel Diko DrSc., Ústav experimentálnej fyziky SAV | Hutnícka fakulta TUKE |

*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** | **Doktorandské štúdium uskutočňované na**   (univerzita/vysoká škola a fakulta) |
| biofyzika | 4.1.12 | Prírodovedecká fakulta UPJŠ |
| všeobecná fyzika a matematická fyzika | 4.1.2 | Prírodovedecká fakulta UPJŠ |
| fyzika kondenzovaných látok a akustika | 4.1.3 | Prírodovedecká fakulta UPJŠ |
| materiály | 5.2.26 | Hutnícka fakulta TUKE |
| fyzikálne inžinierstvo | 5.2.48 | Technická univerzita v Košiciach |

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 hodnosť   alebo vyšší kvalifikačný stupeň** |
| Prof. Ing. Marián Antalík, DrSc. (biochémia) | Prof. Ing. Marián Antalík, DrSc. (Fakulta chemickej a potravinárskej technológie STU) | MUDr. Andrey Musatov, DrSc. (I) |
| Prof. Ing. Marián Antalík, DrSc. (biochémia) | Prof. Ing. Marián Antalík, DrSc. (Prírodovedecká fakulta UPJŠ) | doc. RNDr. Zuzana Gažová, CSc. (doc., Slovenská poľnohospodárska univerzita v Nitre) |
| Doc. RNDr. Dušan Bruncko, CSc. (jadrová a subjadrová fyzika) | Prof. Ing. Karel Kudela, DrSc. (Vysoká škola bezpečnostného manažérstva v Košiciach) |  |
| Doc. RNDr. Dušan Bruncko, CSc. (jadrová a subjadrová fyzika) | Prof. RNDr. Marián Reiffers, DrSc. (Fakulta humanitných a prírodných vied PU) |  |
| Ing. Pavel Diko, DrSc. (fyzika kondenzovaných látok a akustika) | Prof. RNDr. Marián Reiffers, DrSc. (Prešovská univerzita v Prešove) |  |
| Ing. Pavel Diko, DrSc. (materiály) | Prof. RNDr. Peter Samuely, DrSc. (Technická univerzita v Košiciach) |  |
| RNDr. Pavol Farkašovský, DrSc. (všeobecná fyzika a matematická fyzika) |  |  |
| RNDr. Pavol Farkašovský, DrSc. (všeobecná fyzika a matematická fyzika) |  |  |
| Doc. RNDr. Karol Flachbart, DrSc. (fyzika kondenzovaných látok a akustika) |  |  |
| Doc. RNDr. Karol Flachbart, DrSc. (fyzikálne inžinierstvo) |  |  |
| doc. RNDr. Zuzana Gažová, CSc. (biofyzika) |  |  |
| prof. Dr.h.c. RNDr. Michal Hnatič, DrSc. (všeobecná fyzika a matematická fyzika) |  |  |
| prof. Dr.h.c. RNDr. Michal Hnatič, DrSc. (jadrová a subjadrová fyzika) |  |  |
| Doc. RNDr. Peter Kopčanský, CSc. (fyzika kondenzovaných látok a akustika) |  |  |
| Doc. RNDr. Peter Kopčanský, CSc. (všeobecná fyzika a matematická fyzika) |  |  |
| RNDr. Ivan Králik, CSc. (všeobecná fyzika a matematická fyzika) |  |  |
| RNDr. Ivan Králik, CSc. (jadrová a subjadrová fyzika) |  |  |
| Prof. Ing. Karel Kudela, DrSc. (jadrová a subjadrová fyzika) |  |  |
| MUDr. Andrey Musatov, DrSc. (biofyzika) |  |  |
| MUDr. Andrey Musatov, DrSc. (biochémia) |  |  |
| Prof. RNDr. Marián Reiffers, DrSc. (všeobecná fyzika a matematická fyzika) |  |  |
| Prof. RNDr. Peter Samuely, DrSc. (fyzika kondenzovaných látok a akustika) |  |  |
| RNDr. Marián Sedlák, DrSc. (mineralurgia) |  |  |
| RNDr. Peter Skyba, DrSc. (fyzika kondenzovaných látok a akustika) |  |  |
| RNDr. Marián Slivka, CSc. (jadrová a subjadrová fyzika) |  |  |
| RNDr. Milan Stehlík, DrSc. (jadrová a subjadrová fyzika) |  |  |
| RNDr. Ivan Škorvánek, CSc. (fyzika kondenzovaných látok a akustika) |  |  |
| Doc. Ing. Zoltán Tomori, CSc. (kybernetika) |  |  |

**3.5. Údaje o pedagogickej činnosti**   
Tabuľka 3f Prednášky a cvičenia vedené v roku 2016

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **PEDAGOGICKÁ ČINNOSŤ** | **Prednášky** | | **Cvičenia a semináre** | |
| **doma** | **v zahraničí** | **doma** | **v zahraničí** |
| **Počet prednášateľov alebo vedúcich cvičení** | 13 | 2 | 5 | 0 |
| **Celkový počet hodín v r. 2016** | 409 | 56 | 197 | 0 |

*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** | 17 |
|
| **2.** | **Počet vedených alebo konzultovaných diplomových a bakalárskych prác** | 28 |
|
| **3.** | **Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)** | 15 |
|
| **4.** | **Počet školených doktorandov (aj pre iné inštitúcie)** | 23 |
|
| **5.** | **Počet oponovaných dizertačných a habilitačných prác** | 9 |
|
| **6.** | **Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce** | 8 |
|
| **7.** | **Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc.   prác** | 2 |
|
| **8.** | **Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD.   prác** | 9 |
|
| **9.** | **Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti   v inauguračnom alebo habilitačnom konaní na vysokých školách** | 2 |
|

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

**3.6.1. Vedenie doktorandských prác na iných pracoviskách r. 2016**

1. Školiteľ: prof. Ing. Karel Kudela, DrSc.

Pracovisko: Univerzita P.J.Šafárika, PF, Ústav fyzikálnych vied, Katedra jadrovej a subjadrovej fyziky

Študijný program: Jadrová a subjadrová fyzika, externá

Meno a priezvisko doktoranda: RNDr. Mária Kancírová

Názov dizertačnej práce: Kozmické žiarenie: možné vplyvy na stav atmosféry Zeme. (obhájila 24.8.2016)

2. Školiteľ: doc.Ing. Zoltán Tomori, CSc.

Pracovisko: Univerzita P.J.Šafárika, PF, Ústav informatiky

Študijný program: Informatika, interná

Meno a priezvisko doktoranda: RNDr. Matej Nikorovič

Názov minimovej práce: Spracovanie obrazov z kamier snímajúcich hĺbkovú mapu a ich využitie v pridanej realite

(obhájil v auguste 2016)

3. Školiteľ: RNDr. Jan Nemčík, Csc.

Pracovisko: Katedra fyziky FJFI CVUT, Praha

Študijný program: Aplikace přírodních věd/ Jaderné inženýrství

Meno a priezvisko doktoranda: Ing. Michal Křelina

Názov dizertačnej práce: Studium jaderných efektú v hadron-jaderných interakcích

(obhájil v júni 2106)

4. Školiteľ: MUDr. Andrey Musatov, DrSc.

Pracovisko: PF UPJŠ v Košiciach

Študijný program: Biochémia, interná

Meno a priezvisko doktoranda: Mgr. Veronika Lysáková

Názov dizertačnej práce: Úloha mitochondriálnych elektrón-transportných proteínov v oxidačnom strese.

5. Školiteľ: Ing. Vlasta Závišová, PhD.

Pracovisko: Univerzita P. J. Šafárika, PF, Ústav fyzikálnych vied

Študijný program: Fyzika kondenzovaných látok

Meno a priezvisko doktoranda: Mgr. Iryna Khmara

Názov dizertačnej práce: Magnetické nanočastice pre magnetickú rezonanciu a hypertermiu

6. Školiteľ: RNDr. Marián Sedlák, DrSc.

Pracovisko: Ústav zemských zdrojov, fakulta BERG, TU Košice

Študijný program: Mineralurgia a environmentálne technológie

Meno a priezvisko doktoranda: Mgr. Dmytro Rak

Názov dizertačnej práce: Asociačné, agregačné a separačné javy v komplexných kvapalinách

7. Školiteľka: doc. RNDr. Zuzana Gažová, CSc.

Pracovisko: Univerzita P. J. Šafárika, PF, Ústav chemických vied, Katedra biochémie

Študijný program: biochémia, interná

Meno a priezvisko doktoranda: RNDr. Zuzana Bednáriková

Názov dizertačnej práce: Inhibítory amyloidného samousporiadania proteínov

(obhájila v auguste 2016)

8. Školiteľka: doc. RNDr. Zuzana Gažová, CSc.

Pracovisko: Univerzita P. J. Šafárika, PF, Ústav biologických vied, Katedra bunkovej biológie

Študijný program: Molekulárna cytológia

Meno a priezvisko doktoranda: Mgr. Karína Uličná

Názov dizertačnej práce: Interakcia amyloidných agregátov proteínov s bunkami

**4. Medzinárodná vedecká spolupráca**

**4.1. Medzinárodné vedecké podujatia**

**4.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2016 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia**   
   
Metallography 16, Stará Lesná, 200 účastníkov, 20.04.-22.04.2016

Konferencia bola významnou príležitosťou na prezentáciu výsledkov materiálového výskumu. Bola zameraná nielen na kovové materiály ale aj na mnohé nové materiály a technológie.

CSMAG'16, Česká a slovenská konferencia o magnetizme, Košice, 320 účastníkov, 13.06.-17.06.2016

Cieľom pravidelnej v poradí už 16. konferencie CSMAG bolo ponúknuť príležitosť pre slovenských a českých vedeckých pracovníkov a hostí z ďalších 25 krajín, ktorí pracujú v oblasti základného a aplikovaného magnetizmu, prezentovať svoje posledné výsledky a vymieňať si idey a technické informácie.

Small Triangle Meeting, Ptíča, 30 účastníkov, 16.10.-19.10.2016

16. - 19.10.2017 sa v Ptíčom uskutočnil 18.ročník medzinárodného seminára "Small Triangle Meeting", na ktorom sa zúčastili vedci zo Slovenska, Ukrajiny, Čiech, Maďarska, Ruska a Fínska. Na seminári bolo prítomných viac ako 30 účastníkov. Ako obvykle, široké spektrum prezentových tém z rôznych oblasti fyziky urobilo všetky zasadnutia seminára príťažlivými najmä pre mladých vedcov a doktorandov. Príspevky a prednášky seminára, ktoré prejdú štandardným   
peer review hodnotiacim procesom budú opublikované v zborníku.

**4.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2017 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)**

**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** | 2 | 0 | 6 |

**4.2. Členstvo a funkcie v medzinárodných orgánoch**

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

Doc. RNDr. Dušan Bruncko, CSc.

Kolaboračná rada experimentu ATLAS v CERN (funkcia: člen)

RNDr. Diana Fedunová, PhD.

European Biophysical Societies Association (funkcia: člen)

Doc. RNDr. Karol Flachbart, DrSc.

Americká fyzikálna spoločnosť (funkcia: člen)

Nemecká fyzikálna spoločnosť (funkcia: člen)

doc. RNDr. Zuzana Gažová, CSc.

European Biophysical Societies Association (funkcia: člen)

RNDr. Viktor Kavečanský, CSc.

Kryštalografická spločnosť (funkcia: člen)

Prof. Ing. Karel Kudela, DrSc.

COSPAR (funkcia: predseda NK)

International Academy of Astronautics (funkcia: člen zvolený )

URSI (funkcia: člen NK)

Prof. RNDr. Marián Reiffers, DrSc.

„Fellow“ – Institute of physics (funkcia: člen panelov pre prijímanie nových „fellow“)

Európska fyzikálna spoločnosť (funkcia: individuálny člen)

Rada Európskej fyzikálnej spoločnosti (funkcia: člen)

Prof. RNDr. Peter Samuely, DrSc.

Academia Europaea Scientiarum et Artium, Salzburg (funkcia: riadny člen )

RNDr. Marián Sedlák, DrSc.

American Chemical Society (funkcia: člen)

American Physical Society (funkcia: člen)

RNDr. Peter Skyba, DrSc.

IUPAP C5 Low Temperature Physics (funkcia: člen)

RNDr. Marián Slivka, CSc.

SCOSTEP (funkcia: člen NK)

RNDr. Ivan Škorvánek, CSc.

American Assoc. for Advancement of Science (funkcia: člen)

Humboldtov klub v SR (funkcia: podpredseda)

International Advisory Committee for Soft Magnetic Materials (funkcia: člen)

Magnetism Committee TMS Society USA (funkcia: člen)

Doc. Ing. Zoltán Tomori, CSc.

IEEE - Computer Society (funkcia: affiliat.)

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

Tabuľka 4b Experti hodnotiaci medzinárodné projekty

|  |  |  |
| --- | --- | --- |
| **Meno pracovníka** | **Typ programu/projektu/výzvy** | **Počet hodnotených projektov** |
| Bruncko Dušan | Projekt LG15047, oponent | 1 |
|  | Projekt LM2015068 - clen Scientific Board/International Advisory Committee | 1 |
|  | Projekt LTT17002, oponent | 1 |
|  | Projekt LTT17003 | 1 |
|  | Projekt LTV17012, oponent | 1 |
|  | Projekt: Skumanie mikrosveta pomocou CERN infrastrktury - Projekt LG15052, oponent | 1 |
| Samuely Peter | H2020-MSCA-IF-2016 | 14 |
| Stríženec Pavol | INGO II CERN | 1 |
| Škorvánek Ivan | National Science Centre , Poland | 1 |

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

Ústav experimentálnej fyziky SAV v Košiciach participuje v značnom počte významných medzinárodných vedecko-výskumných kolaborácií, či už sa jedná o odbor jadrovej a subjadrovej fyziky, kozmickej fyziky alebo široké spektrum odborov fyziky pevných látok až po biofyziku. Ako príklad je možné uviesť:

- v oblasti pevných látok spoluprácu s laboratóriami CNRS v Grenobli, University of Lancaster, UAM Madrid, s ústavmi Poľskej akedémie vied, Českej akadémie vied a Maďarskej akadémie vied, SIT Tokyo a RAS Cernogolovka.

- v jadrovej a subjadrovej fyzike príspevok do experimentov ATLAS a ALICE na urýchľovači LHC v CERNe

- v kozmickej fyzike kolaboráciu JEM-EUSO

- v biofyzike spoluprácu s Institute of Physics Academia Sinica na Taiwane, Institute of Physics, Polish Academy of Sciences, Department of Biophysics "Carol Davila" University of Medicine and Pharmacy v Bukurešti a CNR v Bologni v Taliansku.

*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**

Ústav experimentálnej fyziky SAV v Košiciach patrí medzi najúspešnejšie ústavy v získavaní prostriedkov zo Štrukturálnych fondov EÚ v rámci SAV. Štrukturálne fondy EÚ predstavujú síce veľmi významný, ale časovo limitovaný zdroj prostriedkov významného skvalitnenia prístrojovej základne, a už vôbec neposkytujú prostriedky na ich prevádzku, údržbu a ďalší rozvoj. Z tohto dôvodu je nevyhnutné aby Agentúra na podporu výskumu a vývoja pravidelne a v dostatočnom objeme prostriedkov plnila svoju funkciu hlavného zdroja financovania trvalého a udržateľného rozvoja vedy a výskumu na Slovensku. Súčasne by bolo dobré, keby sa zvýšili možnosti zamestnávania post-docov cez podporný fond Štefana Schwarza.

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

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

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

**Druh spolupráce (spoločné pracovisko alebo iné):** Spoločné experimenty a využívanie experimentálnej aparatúry

**Začiatok spolupráce:** 2014

**Zameranie:** Štúdium mitochondriálnych elektrón-transportných proteínov

**Zhodnotenie:** Spoločný projekt VEGA - Prírodovedecká fakulta UPJŠ je spoluriešiteľská organizácia na projekte

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

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

**Začiatok spolupráce:** 1969

**Zameranie:** Fyzika veľmi nízkych teplôt

**Zhodnotenie:** Centrum fyziky veľmi nízkych teplôt Košice je spoločné pracovisko ÚEF SAV a UPJŠ, ktoré je tiež Centrom excelentnosti SAV a UPJŠ, ktoré umožňuje spoločné využívanie experimentálnej techniky.

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

**Druh spolupráce (spoločné pracovisko alebo iné):** Spoločné projekty a využívanie experimentálnej techniky

**Začiatok spolupráce:** 1999

**Zameranie:** Fyzika tuhých látok

**Zhodnotenie:** Dlhodobá spolupráca v oblasti štúdia mikroštruktúry a magnetických vlastností nanokryštalických kompozitných materiálov a systémov magnetických nanočastíc.

**Názov univerzity/vysokej školy a fakulty:** Fakulta elektrotechniky a informatiky TUKE

**Druh spolupráce (spoločné pracovisko alebo iné):** Spoločné využívanie experimentálnej aparatúry

**Začiatok spolupráce:** 2008

**Zameranie:** analýza obrazu

**Zhodnotenie:** Spoločný projekt APVV - Fakulta elektrotechniky a informatiky TUKE a Prírodovedecká fakulta UPJŠ sú spoluriešitelia.

**Názov univerzity/vysokej školy a fakulty:** Hutnícka fakulta TUKE

**Druh spolupráce (spoločné pracovisko alebo iné):** Spoločné využívanie experimentálnej techniky

**Začiatok spolupráce:** 1969

**Zameranie:** Materiálová fyzika

**Zhodnotenie:** Spolu s Ústavom materiálového výskumu SAV v Košiciach spoločné využívanie experimentálnej techniky.

**Názov univerzity/vysokej školy a fakulty:** Univerzita Komenského v Bratislave

**Druh spolupráce (spoločné pracovisko alebo iné):** Spoločné experimenty a využívanie experimentálnej aparatúry

**Začiatok spolupráce:** 2011

**Zameranie:** Štúdium inhibítorov amyloidnej agregácie proteínov

**Zhodnotenie:** Spolupráca v oblasti štúdia amyloidnej agregácie proteínov, in vitro a in silico štúdium inhibítorov amyloidnej agregácie.

**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 vlády SR, Národnej rady SR, ministerstiev SR, orgánoch EÚ, EP, NATO a pod.**

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

|  |  |  |
| --- | --- | --- |
| **Meno pracovníka** | **Názov orgánu** | **Funkcia** |
| Doc. RNDr. Dušan Bruncko, CSc. | Výbor pre spoluprácu s CERN | člen |
| prof. Dr.h.c. RNDr. Michal Hnatič, DrSc. | Výbor pre spoluprácu SR s SÚJV Dubna | člen |
| RNDr. Ivan Králik, CSc. | Výbor pre spoluprácu s CERN | člen |
|  | Výbor pre spoluprácu s CERN | Podpredseda |
| Prof. Ing. Karel Kudela, DrSc. | Výbor OSN COPUOS (Commission for Peaceful Use of Outer Space) | Zástupca SR, focal point SR (national focal point on the long-term sustainability of outer space activities), člen expertnej skupiny C Space Weather |
| Prof. RNDr. Peter Samuely, DrSc. | Hodnotiteľská komisia MŠVVaŠ pre zaraďovanie publikácií | člen |
|  | Hodnotiaca komisia pre hodnotenie činnosti organizácií vykonávajúcich výskum a vývoj pri Ministerstve školstva, vedy, výskum a športu 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** |
| prof. Dr.h.c. RNDr. Michal Hnatič, DrSc. | Pracovná skupina APVV pre matematiku, fyziku a informatiku | člen |
| Prof. RNDr. Peter Samuely, DrSc. | Rada APVV pre prírodné vedy | predseda rady |

**8.4. Prehľad aktuálnych spoločenských problémov, ktoré riešilo pracovisko v spolupráci s Kanceláriou prezidenta SR, s vládnymi a parlamentnými orgánmi alebo pre ich potrebu**

**9. Vedecko-organizačné a popularizačné aktivity**

**9.1.Vedecko-popularizačná činnosť**

**9.1.1. Najvýznamnejšia vedecko-popularizačná činnosť pracovníkov organizácie SAV**

Tabuľka 9a Vedecko-popularizačná činnosť pracovníkov organizácie SAV

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Meno** | **Spoluautori** | **Typ1** | **Názov** | **Miesto zverejnenia** | **Dátum alebo počet za rok** |
| Ing. Ján Baláž, PhD. | Dominik Holič | TL | Historický úspech aj dráma: posledný kontakt s Philae zlyhal. | SME - Tech: http://tech.sme.sk/c/20071984/historicky-uspech-aj-drama-posledny-kontakt-s-philae-zlyhal.html#ixzz46RonFjeH | 13.1.2016 |
| Ing. Ján Baláž, PhD. | Dominik Holič | TL | Ján Baláž: Skúmanie Jupitera môže ukázať vznik slnečnej sústavy | SME-TECH http://tech.sme.sk/c/20205948/jan-balaz-skumanie-jupitera-moze-ukazat-vznik-slnecnej-sustavy.html | 1.7.2016 |
| Ing. Ján Baláž, PhD. | Dominik Holič | TL | Slovenských vedcov brzdí byrokracia | SME Veda a technika | 10.8.2016 |
| Ing. Ján Baláž, PhD. | Dominik Holič | TL | Sonda Rosetta pristála na kométe 67P | SME - Tech http://s.sme.sk/r-rss/20291639/tech.sme.sk/minuta-po-minute-sonda-rosetta-pristala-na-komete-67p.html | 30.9.2016 |
| Ing. Ján Baláž, PhD. | Dominik Holič | TL | Vedci o druhom objave gravitačných vĺn: Zaslúžia si Nobelovu cenu | SME-Tech http://tech.sme.sk/c/20191980/vedci-o-druhom-objave-gravitacnych-vln-zasluzia-si-nobelovu-cenu.html | 15.6.2016 |
| Ing. Ján Baláž, PhD. | Dominik Holič | IN | Vesmírny konštruktér Baláž: Ešte aj na ceruzku s gumou musím ísť do súťaže... | SME - Tech - Vesmír http://tech.sme.sk/c/20232549/vesmirny-konstrukter-balaz-este-aj-na-ceruzku-s-gumou-musim-ist-do-sutaze-zaoberame-sa-tu.html | 5.8.2016 |
| Ing. Ján Baláž, PhD. | Dominik Holič, Vojtech Rušin, Martin Vaňko | TL | Objavili miesta pre vesmírny život? | SME Veda a technika | 3.5.2016 |
| Ing. Ján Baláž, PhD. | Dušan Tokarčík | TV | Misia splnená | TV Markíza, http://videoarchiv.markiza.sk/video/televizne-noviny/televizne-noviny/52537\_televizne-noviny | 30.9.2016 |
| Ing. Ján Baláž, PhD. | Jozef Kačmáry | TV | Rosetta skončila | TV JOJ Noviny https://velkenoviny.joj.sk/archiv/2016-09-30-noviny-tv-joj | 30.9.2016 |
| Ing. Ján Baláž, PhD. | Miroslav Vais | TL | Sonda Rosetta skončila misiu pádom na kométu | Pravda http://vat.pravda.sk/vesmir/clanok/406602-sonda-rosetta-pristala-na-komete-a-ukoncila-svoju-misiu/ | 3.10.2016 |
| Ing. Ján Baláž, PhD. | OKF-ÚEF-SAV, SOSA | iné | Cosmos Discovery World Exhibition (2 postery+ 4 exponáty) | Incheba Bratislava 12.9.2016 - 8.1.2017 | 12.9.2016 |
| Ing. Ján Baláž, PhD. | Renáta Zelná | TL | V atmosfére kométy 67P objavili základy vzniku života | SME, Tech. http://tech.sme.sk/c/20177578/v-atmosfere-komety-67p-objavili-zaklady-vzniku-zivota.html#ixzz4ADXASbYR | 30.5.2016 |
| Ing. Ján Baláž, PhD. | Tomáš Prokopčák | TL | Gravitačné vlny nám pomôžu nahliadnuť do jadra galaxie. | SME-TECH http://tech.sme.sk/c/20092399/gravitacne-vlny-nam-pomozu-nahliadnut-do-jadr | 11.2.2016 |
| Ing. Ján Baláž, PhD. | Viliam Kolivoška | PB | Ako sme pristáli na kométe | Hvezdáreň a planetárium v Prešove | 14.4.2016 |
| Doc. RNDr. Dušan Bruncko, CSc. | - | TL | interview pre casopis Interview o HEP | casopis Interview | 9.7.2016 |
| Doc. RNDr. Dušan Bruncko, CSc. | - | PB | prednaska v ramci tzv. | Kulturfabrik Tabacka, Gorkeho 2, Kosice | 28.9.2016 |
| RNDr. Slavomír Gabáni, PhD. |  | PB | Vedecká kaviareň | Libresso books&coffee Prešov | 19.12.2016 |
| RNDr. Jozef Kačmarčík, PhD |  | TV | Noc výskumníkov - Nízke teploty a supravodivosť | RTVS - Teleregina | 30.9.2016 |
| RNDr. Jozef Kačmarčík, PhD | Z. Vargaeštoková, M. Marcin, F. Vavrek | PB | Nízke teploty a supravodivosť - FESTIVAL VEDY Európska noc výskumníkov | OC Optima, Košice | 30.9.2016 |
| RNDr. Ivan Králik, CSc. |  | PB | Antihmota | Hands on Particle Physics International Masterclasses, Prešovská univerzita, Prešov | 11.3.2016 |
| RNDr. Ivan Králik, CSc. |  | PB | Pohľady do mikrosveta | Hands on Particle Physics International Masterclasses, Gymnázium P.J.Šafárika, Rožňava | 31.5.2016 |
| RNDr. Ivan Králik, CSc. |  | PB | Pohľady do mikrosveta | Hands on Particle Physics International Masterclasses, Univerzita P.J.Šafárika, Košice | 22.3.2016 |
| Prof. Ing. Karel Kudela, DrSc. | Mgr. Ronald Langer z OKF ÚEF SAV | TL | http://kozmonautika.sk/2016/07/25/observatoria-sav-na-lomnickom-stite | kozmonautika.sk | 25.7.2016 |
| Prof. RNDr. Peter Samuely, DrSc. |  | PB | Noc výskumníka | obchodné centrum Optima Košice | 30.9.2016 |
| Mgr. Pavol Szabó, CSc. |  | PB | Keď to ide mrznúť | Košice, Rovas Academy | 26.11.2016 |
| Mgr. Pavol Szabó, CSc. |  | PB | Miesto vedy v „Kreatívnom meste“ | Creative Industry Košice - míting v KulturParku | 21.9.2016 |
| Mgr. Pavol Szabó, CSc. |  | PB | Moja fyzika | Hosťovce | 14.2.2016 |
| Mgr. Pavol Szabó, CSc. |  | PB | Zábavné fyzikálne experimenty | Divadlo Thália, Košice | 3.7.2016 |
| Doc. Ing. Zoltán Tomori, CSc. | Peter Keša | PB | Exponát na "Noc výskumníka" | OC Optima, Košice | 30.9.2016 |
| RNDr. Zuzana Vargaeštoková, PhD | Slavomír Gabáni | PB | Popularizačná prednáška s experimentmi | Stredná odborná škola polytechnická Humenné | 27.5.2016 |
| RNDr. Mária Zentková, CSc. | Martin Vavra | iné | Danube Up -Sprievodna akcia 7. Europskeho summitu miest a regionov, Bratislava | http://vedanadosah.cvtisr.sk/danube-up-veda-detskymi-ocami | 9.7.2016 |
| RNDr. Mária Zentková, CSc. | UEF SAV -spoluorganizátor akcie | iné | Malá vedecká konferencia -Celoslovenske finále prezentacie projektov talentovaných detí | http://uef.saske.sk/ofmj/Polularizacia/4125/ | 17.6.2016 |
| RNDr. Pavol Bobík, PhD |  | TL | Záhada ultraenergických častíc | Quark, august 2016 | 1 |
| RNDr. Slavomír Gabáni, PhD. | Alžbeta Orendáčová, Martin Orendáč | TL | Nobelova cena za fyziku v roku 2016 z oblasti fyziky kondenzovanej fázy | Československý časopis pro fyziku | 1 |
| RNDr. Slavomír Gabáni, PhD. | Gabriel Pristáš | iné | Noc výskumníkov | Optima Košice | 1 |
| doc. RNDr. Zuzana Gažová, CSc. | Bednáriková, Kubacková, Uličná, Gančár | iné | Noc výskumníkov | www.nocvyskumnikov.sk | 1 |
| RNDr. Mária Zentková, CSc. |  | iné | Vedecky brloh špeciály na Use the City Festival a Polievkový festival 2016 | www.vymenniky.sk | 2 |
| RNDr. Mária Zentková, CSc. | Martin Vavra, Zuzana Medvecká , Veronika Hašková, | PB | Vedecky Brloh v Kosiciach | http://uef.saske.sk/ofmj/Polularizacia/4122/ | 10 |

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

**9.1.2. Súhrnné počty vedecko-popularizačných činností organizácie SAV**

Tabuľka 9b Súhrnné počty vedecko-popularizačných činností organizácie SAV

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Typ** | **Počet** | **Typ** | **Počet** | **Typ** | **Počet** |
| prednášky/besedy | 15 | tlač | 13 | TV | 3 |
| rozhlas | 3 | internet | 1 | exkurzie | 0 |
| publikácie | 1 | multimediálne nosiče | 0 | dokumentárne filmy | 0 |
| iné | 7 |  |  |  |  |

**9.2. Vedecko-organizačná činnosť**

Tabuľka 9c Vedecko-organizačná činnosť

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Názov podujatia** | **Domáca/ medzinárodná** | **Miesto** | **Dátum konania** | **Počet účastníkov** |
| Metallography 16 | medzinárodná | Stará Lesná | 20.04.-22.04.2016 | 200 |
| CSMAG'16, Česká a slovenská konferencia o magnetizme | medzinárodná | Košice | 13.06.-17.06.2016 | 320 |
| Small Triangle Meeting | medzinárodná | Ptíča | 16.10.-19.10.2016 | 30 |

**9.3. Účasť na výstavách**

**9.4. Účasť v programových a organizačných výboroch národných konferencií**   
   
Tabuľka 9d Programové a organizačné výbory národných konferencií

|  |  |  |  |
| --- | --- | --- | --- |
| **Typ výboru** | **Programový** | **Organizačný** | **Programový i organizačný** |
| **Počet členstiev** | 0 | 0 | 0 |

**9.5. Členstvo v redakčných radách časopisov**

Prof. Ing. Marián Antalík, DrSc.

Chemical papers (funkcia: člen)

Doc. RNDr. Karol Flachbart, DrSc.

Acta Electrotechnica et Informatica (funkcia: člen redakčnej rady )

prof. Dr.h.c. RNDr. Michal Hnatič, DrSc.

Mathematical Modelling and Geometry (funkcia: člen)

Vestnik of Saint Petersburg University (funkcia: člen)

Prof. Ing. Karel Kudela, DrSc.

Acta Electrotechnica et Informatica (funkcia: člen redakčnej rady )

Acta Universitatis Carolinae (funkcia: člen redakčnej rady)

Dataset Papers in Geosciences, Geophysics (funkcia: člen Editorial Board)

Indian Journal of Radio and Space Physics (funkcia: člen redakčnej rady)

The Open Aerospace Enginnering Journal (funkcia: člen Editorial Advisory Board)

The Scientific World Journal, Geophysics (funkcia: člen Editorial Board)

MUDr. Andrey Musatov, DrSc.

Chemical Papers (funkcia: Vedecký Editor)

Prof. RNDr. Peter Samuely, DrSc.

Physica C (funkcia: člen Advisory board)

RNDr. Peter Skyba, DrSc.

Acta Physica Slovaca (funkcia: člen)

Journal of Low Temperature Physics (funkcia: Guest Editor)

RNDr. Ivan Škorvánek, CSc.

ISRN Nanotechnology (funkcia: člen editorial board)

RNDr. Milan Timko, CSc.

Slovenská fyzikálna spoločnosť (funkcia: člen výboru)

**9.6. Činnosť v domácich vedeckých spoločnostiach**   
   
Väčšina vedeckých pracovníkov je členom domácich vedeckých spoločností ako:

Slovenská fyzikálna spoločnosť

Slovenská biofyzikálna spoločnosť

Slovenská spoločnosť pre biochémiu a molekulárnu biológiu

Prof. Ing. Karel Kudela, DrSc.

Vedecká rada Astronomického ústavu SAV (funkcia: člen)

Vedecká rada VŠBM Košice (funkcia: člen)

Prof. RNDr. Marián Reiffers, DrSc.

Národný komitét IUPAP (funkcia: člen)

Slovenská fyzikálna spoločnosť (funkcia: predseda)

RNDr. Ivan Škorvánek, CSc.

Odborná skupina Magnetizmu pri Slovenskej Fyzikálnej Spoločnosti (funkcia: Vedúci)

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

**Noc výskumníkov 2016**

V rámci najväčšieho popularizačného podujatia zameraného na vedu a výskum na Slovensku Noc výskumníkov pracovníci ÚEF SAV v Košiciach zorganizovali a koordinovali vedeckú show košických ústavov SAV a miestnych univerzít. Akcia sa uskutočnila dňa 30. septembra 2016 v Obchodnom centre Optima v Košiciach. Na akcii ÚEF reprezentovalo 8 exponátov a 25 výskumníkov. V rámci Noci výskumníkov v spolupráci so spoločnosťou Cofilm sa realizoval i kolotoč 10 vedecko-popularizačných prednášok v kinosále (pre 80 ľudí) multikina Cinemax.

**Malá vedecká konferencia**

Ústav experimentálnej fyziky SAV a ZŠ Krosnianska 4 v Košiciach spolu so Školou pre mimoriadne nadané deti a Gymnáziom na Teplickej ulici v Bratislave zorganizoval dňa 17. júna 2016 v svojich priestoroch celoslovenskúj Malú vedeckú konferenciu pre intelektovo nadaných žiakov z tried a škôl s programom edukácie nadaných detí APROGEN PhDr. Jolany Laznibatovej, CSc. Toto podujatie sa konalo pod záštitou primátora Košíc MUDr. Richarda Rašiho, PhD. Malí vedci prezentovali svoje ročníkové projekty v troch paralelných sekciách: Fyzika a technika, Prírodné vedy a Humanitné vedy. Popoludní vedci otvorili svoje laboratóriá. V sprievode rodičov a pedagógov sa dozvedeli veľa o magnetických kvapalinách a využití nanočastíc v medicíne, o výskume v oblasti supravodivých materiálov a o magnetickom vlaku. Navštívili aj laboratórium vysokých magnetických polí a košický GRID.

**10. Činnosť knižnično-informačného pracoviska**

Tabuľka 10a Knižničný fond

|  |  |  |
| --- | --- | --- |
| **Knižničné jednotky spolu** | | 3179 |
| z toho | knihy a zviazané periodiká | 3151 |
| audiovizuálne dokumenty |  |
| elektronické dokumenty (vrátane digitálnych) | 5 |
| mikroformy |  |
| iné špeciálne dokumenty - dizertácie, výskumné správy | 23 |
| Počet titulov dochádzajúcich periodík | |  |
| z toho zahraničné periodiká | |  |
| Ročný prírastok knižničných jednotiek | | 30 |
| v tom | kúpou | 30 |
| darom |  |
| výmenou |  |
| bezodplatným prevodom |  |
| Úbytky knižničných jednotiek | |  |
| Knižničné jednotky spracované automatizovane | | 30 |

**10.2. Výpožičky a služby**

Tabuľka 10b Výpožičky a služby

|  |  |  |
| --- | --- | --- |
| **Výpožičky spolu** | | 1165 |
| z toho | odborná literatúra pre dospelých | 1165 |
| výpožičky periodík |  |
| prezenčné výpožičky | 20 |
| MVS iným knižniciam | |  |
| MVS z iných knižníc | | 18 |
| MMVS iným knižniciam | |  |
| MMVS z iných knižníc | |  |
| Počet vypracovaných bibliografií | |  |
| Počet vypracovaných rešerší | |  |

**10.3. Používatelia**

Tabuľka 10c Užívatelia

|  |  |
| --- | --- |
| Registrovaní používatelia | 115 |
| Návštevníci knižnice spolu (bez návštevníkov podujatí) | 200 |

**10.4. Iné údaje**

Tabuľka 10d Iné údaje

|  |  |
| --- | --- |
| On-line katalóg knižnice na internete ( 1=áno, 0=nie) | 0 |
| Náklady na nákup knižničného fondu v € | 854, 96 € |

**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**

**11.3. Členstvo vo vedeckých kolégiách SAV**

Prof. Ing. Marián Antalík, DrSc.

- VK SAV pre chemické vedy (Podpredseda kolégia SAV)

Ing. Pavel Diko, DrSc.

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

Doc. RNDr. Karol Flachbart, DrSc.

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

doc. RNDr. Zuzana Gažová, CSc.

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

Doc. RNDr. Peter Kopčanský, CSc.

- VK SAV pre matematiku, fyziku a informatiku (podpredseda kolégia)

**11.4. Členstvo v komisiách SAV**

RNDr. Pavol Farkašovský, DrSc.

- Akreditačná komisia SAV (člen)

Doc. RNDr. Karol Flachbart, DrSc.

- Komisia SAV pre zahraničné styky (člen komisie)

Ing. Viktor Kočan

- Komisia SAV pre informačné a komunikačné technológie (člen)

Mgr. Pavol Szabó, CSc.

- Komisia SAV pre komunikáciu a médiá (člen komisie)

RNDr. Ivan Škorvánek, CSc.

- Komisia SAV pre vyhodnocovanie medzinárodných projektov (člen)

**11.5. Členstvo v orgánoch VEGA**

Ing. Pavel Diko, DrSc.

- Komisia VEGA č. 7. pre strojárstvo a materiálové inžinierstvo (člen)

RNDr. Marián Jurčišin, PhD.

- Komisia VEGA č.1 (člen)

Doc. RNDr. Peter Kopčanský, CSc.

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

RNDr. Ivan Králik, CSc.

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

MUDr. Andrey Musatov, DrSc.

- Komisia č.3 pre chemické vedy, chemické inžinerstvo a biotechnológie VEGA (člen komisie)

RNDr. Ivan Škorvánek, CSc.

- Komisia VEGA č. 7 (člen komisie)

RNDr. Milan Timko, CSc.

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

**12.1. Výdavky RO SAV - ÚEF bol rozpočtovou organizáciou do 31.3.2016**

Tabuľka 12a Výdavky RO SAV (v €)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **V ý d a v k y** | **Skutočnosť k 31.3.2016 spolu** | **v tom:** | | | |
| **zo ŠR** | **z toho:** | **z mimorozp. zdrojov** | **z toho:** |
| **ŠF EÚ vr. spolufinan.zo ŠR** | **ŠF EÚ vr. spolufinan.zo ŠR** |
| **Výdavky spolu** | 542454 | 516581 | 33295 | 25873 |  |
| **Bežné výdavky** | 540654 | 514781 | 33295 | 25873 |  |
| **v tom:** |  |  |  |  |  |
| mzdy (610) | 297144 | 295445 | 22944 | 1699 |  |
| poistné a príspevok do poisťovní (620) | 102143 | 101303 | 7982 | 840 |  |
| tovary a služby (630) | 113707 | 90373 | 2369 | 23334 |  |
| z toho: časopisy |  |  |  |  |  |
| VEGA projekty | 28935 | 28935 |  |  |  |
| MVTS projekty | 12087 | 12087 |  |  |  |
| CE |  |  |  |  |  |
| vedecká výchova | 672 | 672 |  |  |  |
| bežné transfery (640) | 27660 | 27660 |  |  |  |
| z toho: štipendiá |  |  |  |  |  |
| transfery partnerom projektov |  |  |  |  |  |
| **Kapitálové výdavky** | 1800 | 1800 |  |  |  |
| **v tom:** |  |  |  |  |  |
| obstarávanie kapitálových aktív | 1800 | 1800 |  |  |  |
| kapitálové transfery |  |  |  |  |  |
| z toho: transfery partnerom projektov |  |  |  |  |  |

**12.2. Príjmy RO SAV ÚEF bol rozpočtovou organizáciou do 31.3.2016**

Tabuľka 12b Príjmy RO SAV (v €)

|  |  |  |  |
| --- | --- | --- | --- |
| **P r í j m y** | **Skutočnosť k 31.3.2016 spolu** | **v tom:** | |
| **rozpočtové** | **z mimorozp. zdrojov** |
| **Príjmy spolu** | 27670 | 1797 | 25873 |
| **Nedaňové príjmy** | 1797 | 1797 |  |
| **v tom:** |  |  |  |
| príjmy z prenájmu |  |  |  |
| príjmy z predaja výrobkov a služieb |  |  |  |
| iné | 1797 | 1797 |  |
| **Granty a transfery (mimo zdroja 111)** | 25873 |  | 25873 |
| **v tom:** |  |  |  |
| **tuzemské** | 14418 |  | 14418 |
| **z toho: APVV** | 11455 |  | 11455 |
| **iné** |  |  |  |
| zahraničné |  |  |  |
| z toho: projekty rámcového programu EÚ |  |  |  |
| iné |  |  |  |

**12.1. Výdavky PO SAV**

Tabuľka 12a Výdavky PO SAV (v €) - **ÚEF je príspevkovou organizáciou od 1.4.2016**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **V ý d a v k y** | **Skutočnosť od 1.4.2016 do 31.12.2016 spolu** | **v tom:** | | | |
| **zo ŠR od zriaďovateľa** | **z vlastných zdrojov** | **z iných zdrojov** | **z toho:** |
| **ŠF EÚ** |
| **Výdavky spolu** | 2108965 | 1691286 | 14572 | 403107 | 5591 |
| **Bežné výdavky** | 2035723 | 1679205 | 11892 | 344626 |  |
| **v tom:** |  |  |  |  |  |
| mzdy (610) | 984944 | 916211 | 106 | 68627 | 809 |
| poistné a príspevok do poisťovní (620) | 343663 | 314256 | 1349 | 28058 | 246 |
| tovary a služby (630) | 563078 | 343343 | 9431 | 207304 | 4536 |
| z toho: časopisy |  |  |  |  |  |
| VEGA projekty | 169358 | 169358 |  |  |  |
| MVTS projekty | 62065 | 62065 |  |  |  |
| CE |  |  |  |  |  |
| vedecká výchova | 6368 | 6368 |  |  |  |
| bežné transfery (640) | 147038 | 105395 | 1006 | 40637 |  |
| z toho: štipendiá | 103627 | 103627 |  |  |  |
| transfery partnerom projektov | 39135 |  |  | 39135 |  |
| **Kapitálové výdavky** | 73242 | 12081 | 2680 | 58481 |  |
| **v tom:** |  |  |  |  |  |
| obstarávanie kapitálových aktív | 12081 | 12081 |  |  |  |
| kapitálové transfery | 2608 |  | 2608 |  |  |
| z toho: transfery partnerom projektov |  |  |  |  |  |

**12.2. Príjmy PO SAV** - **ÚEF je príspevkovou organizáciou od 1.4.2016**

Tabuľka 12b Príjmy PO SAV (v €)

|  |  |  |  |
| --- | --- | --- | --- |
| **P r í j m y** | **Skutočnosť od 1.4.2016 do 31.12.2016 spolu** | **v tom:** | |
| **rozpočtové** | **z mimorozp. zdrojov** |
| **Príjmy spolu** | 2143755 | 1713579 | 430176 |
| **Nedaňové príjmy** | 1713579 | 1713579 |  |
| **v tom:** |  |  |  |
| príjmy z prenájmu |  |  |  |
| príjmy z predaja výrobkov a služieb | 22292 | 22292 |  |
| iné | 1691287 |  |  |
| **Granty a transfery (mimo zdroja 111)** | 430176 |  | 430176 |
| **v tom:** |  |  |  |
| **tuzemské** | 142148 |  | 142148 |
| **z toho: APVV** | 270037 |  | 270037 |
| **iné** |  |  |  |
| zahraničné | 17991 |  | 17991 |
| z toho: projekty rámcového programu EÚ | 5591 |  | 5591 |
| iné |  |  |  |

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

**14. Iné významné činnosti organizácie SAV**

**15. Vyznamenania, ocenenia a ceny udelené pracovníkom organizácie v roku 2016**

**15.1. Domáce ocenenia**

**15.1.1. Ocenenia SAV**

**Baláž Ján**

Cena SAV za popularizáciu vedy

*Oceňovateľ: SAV*

*Opis: Za propagáciu významu vedy a presadzovanie jej rozvoja.*

**Kudela Karel**

uznanie významným osobnostiam SAV

*Oceňovateľ: P SAV*

*Opis: http://www.sav.sk/index.php?lang=sk&doc=services-news&source\_no=20&news\_no=6532*

**Zentková Mária**

Cena SAV za popularizaciu

*Oceňovateľ: SAV*

**15.1.2. Iné domáce ocenenia**

**15.2. Medzinárodné ocenenia**

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

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

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

Doc. RNDr. Peter Kopčanský, CSc., +421 55 7922201

Mgr. Pavol Szabó, CSc., 055/ 7922306, 7922310

|  |  |  |
| --- | --- | --- |
| **Riaditeľ organizácie SAV** |  | **Predseda vedeckej rady** |
|  | | |
|  | | |
|  | | |
|  | | |
|  | | |
| ................................................................ |  | ............................................................ |
| Doc. RNDr. Peter Kopčanský, CSc. |  | RNDr. Pavol Farkašovský, DrSc. |

**Prílohy**   
***Príloha A***

**Zoznam zamestnancov a doktorandov organizácie k 31.12.2016**

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

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Meno s titulmi** | **Úväzok  (v %)** | **Ročný prepočítaný úväzok** |
| **Vedúci vedeckí pracovníci DrSc.** | | | |
| 1. | [Prof. Ing. Marián Antalík, DrSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2807) | 50 | 0.50 |
| 2. | [Ing. Pavel Diko, DrSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4039) | 100 | 1.00 |
| 3. | [RNDr. Pavol Farkašovský, DrSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4007) | 100 | 1.00 |
| 4. | [Doc. RNDr. Karol Flachbart, DrSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4006) | 100 | 1.00 |
| 5. | [prof. Dr.h.c. RNDr. Michal Hnatič, DrSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2808) | 50 | 0.10 |
| 6. | [Prof. Ing. Karel Kudela, DrSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2806) | 100 | 1.00 |
| 7. | [MUDr. Andrey Musatov, DrSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=8816) | 100 | 1.00 |
| 8. | [Prof. RNDr. Marián Reiffers, DrSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4030) | 10 | 0.10 |
| 9. | [Prof. RNDr. Peter Samuely, DrSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2803) | 100 | 1.00 |
| 10. | [RNDr. Marián Sedlák, DrSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4617) | 100 | 1.00 |
| 11. | [RNDr. Peter Skyba, DrSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4005) | 100 | 1.00 |
| **Vedúci vedeckí pracovníci CSc., PhD.** | | | |
| 1. | [Doc. RNDr. Dušan Bruncko, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2805) | 100 | 1.00 |
| 2. | [RNDr. Kornel Csach, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4008) | 100 | 1.00 |
| 3. | [Doc. RNDr. Peter Kopčanský, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4000) | 100 | 1.00 |
| 4. | [RNDr. Jozef Kováč, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4041) | 100 | 1.00 |
| 5. | [RNDr. Marián Mihalik, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4043) | 100 | 1.00 |
| 6. | [RNDr. Ivan Škorvánek, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4033) | 100 | 1.00 |
| 7. | [RNDr. Milan Timko, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2393) | 100 | 1.00 |
| 8. | [doc.,RNDr. Jozef Urban, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=9153) | 1 | 0.01 |
| **Samostatní vedeckí pracovníci** | | | |
| 1. | [Ing. Ján Baláž, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4024) | 100 | 1.00 |
| 2. | [Ing. Jaroslav Bán, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4013) | 51 | 0.51 |
| 3. | [RNDr. Ivan Baťko, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4038) | 100 | 1.00 |
| 4. | [RNDr. Pavol Bobík, PhD](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4225) | 100 | 1.00 |
| 5. | [RNDr. Hana Čenčariková, PhD](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5431) | 100 | 1.00 |
| 6. | [RNDr. Diana Fedunová, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4337) | 100 | 1.00 |
| 7. | [RNDr. Slavomír Gabáni, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4057) | 100 | 1.00 |
| 8. | [doc. RNDr. Zuzana Gažová, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5425) | 100 | 1.00 |
| 9. | [RNDr. Marián Jurčišin, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6281) | 100 | 1.00 |
| 10. | [RNDr. Alena Juríková, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4021) | 100 | 1.00 |
| 11. | [RNDr. Jozef Kačmarčík, PhD](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4025) | 100 | 1.00 |
| 12. | [RNDr. Viktor Kavečanský, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4009) | 100 | 1.00 |
| 13. | [Ing. Martina Koneracká, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4037) | 100 | 1.00 |
| 14. | [RNDr. Ivan Králik, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4003) | 100 | 1.00 |
| 15. | [RNDr. Martin Kupka, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4023) | 100 | 1.00 |
| 16. | [RNDr. Jozef Marcin, PhD](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4042) | 100 | 1.00 |
| 17. | [Ing. Jozef Miškuf, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4020) | 15 | 0.10 |
| 18. | [RNDr. Pavol Murín, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=10448) | 1 | 0.00 |
| 19. | [Mgr. Ján Mušinský, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=9026) | 100 | 1.00 |
| 20. | [RNDr. Ján Nemčík, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4014) | 100 | 1.00 |
| 21. | [RNDr. Blahoslav Pastirčák, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4017) | 100 | 1.00 |
| 22. | [RNDr. Richard Pinčák, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6283) | 100 | 1.00 |
| 23. | [RNDr. Gabriel Pristáš, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4071) | 100 | 1.00 |
| 24. | [RNDr. Michal Pudlák, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4022) | 100 | 1.00 |
| 25. | [RNDr. Marián Slivka, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4032) | 25 | 0.17 |
| 26. | [RNDr. Milan Stehlík, DrSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4002) | 25 | 0.17 |
| 27. | [RNDr. Pavol Stríženec, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4011) | 100 | 1.00 |
| 28. | [Mgr. Pavol Szabó, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4062) | 100 | 1.00 |
| 29. | [RNDr. Natália Tomašovičová, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4063) | 100 | 1.00 |
| 30. | [Doc. Ing. Zoltán Tomori, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4060) | 100 | 1.00 |
| 31. | [RNDr. Zuzana Vargaeštoková, PhD](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4070) | 100 | 1.00 |
| 32. | [Ing. Vlasta Závišová, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4047) | 100 | 1.00 |
| 33. | [RNDr. Mária Zentková, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4045) | 100 | 1.00 |
| 34. | [Ing. Katarína Zmorayová, PhD](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4046) | 100 | 1.00 |
| **Vedeckí pracovníci** | | | |
| 1. | [Mgr. Vitaliy Antal, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6324) | 100 | 1.00 |
| 2. | [RNDr. Andrea Antošová, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=7353) | 100 | 0.00 |
| 3. | [RNDr. Lucia Balejčíková, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=8648) | 100 | 0.44 |
| 4. | [RNDr. Marianna Baťková, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6300) | 100 | 1.00 |
| 5. | [RNDr. Zuzana Bednáriková, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=9027) | 50 | 0.26 |
| 6. | [Domenico Colella](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=10288) | 5 | 0.00 |
| 7. | [RNDr. Marcel Človečko, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6301) | 100 | 1.00 |
| 8. | [RNDr. Ján Fedorišin, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=8656) | 5 | 0.00 |
| 9. | [RNDr. Anežka Hashim, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6302) | 100 | 0.00 |
| 10. | [Mgr. Slavomír Hnatič, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=9925) | 100 | 0.00 |
| 11. | [Ing. Mária Huráková, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=9050) | 5 | 0.02 |
| 12. | [RNDr. Eva Jurčišinová, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6288) | 100 | 1.00 |
| 13. | [RNDr. Peter Kaliňák, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=7001) | 100 | 1.00 |
| 14. | [Ing. Peter Keša, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=9624) | 100 | 0.53 |
| 15. | [RNDr. Eduard Kladiva, CSc.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4001) | 100 | 1.00 |
| 16. | [Ing. Marián Krivda, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4029) | 5 | 0.00 |
| 17. | [RNDr. Jana Kubackova, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=9958) | 100 | 1.00 |
| 18. | [RNDr. Martina Kubovčíková, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=8168) | 100 | 1.00 |
| 19. | [RNDr. Jozef Marek, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6278) | 50 | 0.62 |
| 20. | [RNDr. Matúš Mihálik, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=9030) | 100 | 1.00 |
| 21. | [Ing. Zuzana Mitróová, PhD](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4049) | 100 | 1.00 |
| 22. | [Ing. Matúš Molčan, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=8170) | 100 | 1.00 |
| 23. | [RNDr. Marián Putiš, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=8909) | 100 | 1.00 |
| 24. | [Ing. Monika Radušovská, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=8169) | 100 | 0.75 |
| 25. | [RNDr. Michal Rajňák, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=8649) | 100 | 0.92 |
| 26. | [RNDr. Richard Remecký, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6269) | 5 | 0.00 |
| 27. | [RNDr. Katarína Šipošová, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=8136) | 100 | 1.00 |
| 28. | [RNDr. Eva Valušová, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6320) | 100 | 1.00 |
| 29. | [RNDr. Martin Vavra, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=7382) | 10 | 0.10 |
| 30. | [Mgr. Daniela Volochová, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6958) | 100 | 1.00 |
| 31. | [Mgr. Peter Zalom, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=8647) | 5 | 0.01 |
| 32. | [RNDr. Martin Žemlička, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=10744) | 90 | 0.23 |
| **Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)** | | | |
| 1. | [Ing. Richard Bílek](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=7007) | 100 | 1.00 |
| 2. | [Ing. Marcela Brasová](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=3996) | 100 | 1.00 |
| 3. | [Ing. Emil Gažo](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4226) | 100 | 1.00 |
| 4. | [Ing. Igor Hrmo](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5428) | 100 | 1.00 |
| 5. | [Ing. Marek Kollarik](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=9233) | 100 | 1.00 |
| 6. | [Ing. Ingrid Kuľková](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=3997) | 100 | 1.00 |
| 7. | [Mgr. Ronald Langer](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6256) | 100 | 1.00 |
| 8. | [Mgr. Matej Nikorovič](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=9651) | 33 | 0.14 |
| 9. | [Ing. Vladimír Pavlík](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4061) | 100 | 1.00 |
| 10. | [Ing. Samuel Piovarči](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=7246) | 100 | 1.00 |
| 11. | [Mgr. Dmytro Rak](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=8819) | 100 | 1.00 |
| 12. | [Ing. Maxim Rezenov](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=8770) | 100 | 1.00 |
| 13. | [Mgr. Filoména Sopková](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=10530) | 1 | 0.00 |
| 14. | [Ing. Miloslav Straka](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6268) | 100 | 1.00 |
| 15. | [Ing. Igor Strhárský](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4072) | 100 | 1.00 |
| 16. | [Ing. Jozef Špalek](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4230) | 25 | 0.25 |
| 17. | [Mgr. Jana Štetiarová](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5430) | 100 | 1.00 |
| 18. | [Mgr. Katarína Uličná](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=10287) | 5 | 0.05 |
| **Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)** | | | |
| 1. | [Mgr. Iryna Khmara](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=10739) | 50 | 0.16 |
| 2. | [Ing. Viktor Kočan](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=7345) | 100 | 1.00 |
| 3. | [Ing. Valéria Kočanová](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=7175) | 100 | 1.00 |
| 4. | [Ing. Marcela Medeová](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4058) | 100 | 1.00 |
| 5. | [Ing. Katarína Paulovičová](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4036) | 100 | 1.00 |
| 6. | [Ing. Judita Pribišová](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=8786) | 100 | 1.00 |
| **Odborní pracovníci ÚSV** | | | |
| 1. | [Anna Ivanišová](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2814) | 100 | 1.00 |
| 2. | [Ivan Jurčo](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4055) | 100 | 1.00 |
| 3. | [Gabriela Kozáková](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6272) | 100 | 1.00 |
| 4. | [Imrich Piroško](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=9625) | 100 | 1.00 |
| 5. | [Ing. Mária Sabadková](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=7824) | 100 | 1.00 |
| 6. | [Dagmar Sedláková](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6275) | 100 | 1.00 |
| 7. | [Samuel Štefánik](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6280) | 50 | 0.00 |
| 8. | [Viera Štrbinová](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=2812) | 100 | 1.00 |
| 9. | [Dana Švarcbergerová](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6276) | 100 | 1.00 |
| **Ostatní pracovníci** | | | |
| 1. | [Monika Baloghová](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=8291) | 76 | 0.76 |
| 2. | [Mária Belková](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6309) | 76 | 0.76 |
| 3. | [Ján Filičko](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=9485) | 100 | 1.00 |
| 4. | [Štefan Fink](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=7904) | 100 | 1.00 |
| 5. | [Martina Ivančáková](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=9927) | 100 | 1.00 |
| 6. | [Ing. Jozef Jacko](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=10393) | 80 | 0.66 |
| 7. | [Peter Jurko](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6313) | 100 | 1.00 |
| 8. | [Juraj Koribanič](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6321) | 50 | 0.50 |
| 9. | [Pavol Koval](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=10259) | 100 | 1.00 |
| 10. | [Oldřich Menšík](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=10743) | 100 | 0.75 |
| 11. | [Mária Pirošová](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6316) | 45 | 0.45 |
| 12. | [Ľudmila Ristvejová](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6318) | 25 | 0.37 |
| 13. | [Božena Soroková](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6326) | 76 | 0.76 |
| 14. | [Ján Timko](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=7943) | 100 | 1.00 |
| 15. | [Marcela Vaculková](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=10742) | 100 | 0.75 |
| 16. | [František Vružek](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=10396) | 100 | 1.00 |

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

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Meno s titulmi** | **Dátum odchodu** | **Ročný prepočítaný úväzok** |
| **Vedeckí pracovníci** | | | |
| 1. | [Ing. Erna Demjén, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=5427) | 31.10.2016 | 0.83 |
| 2. | [RNDr. Jana Jurečková, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=9329) | 31.3.2016 | 0.17 |
| 3. | [RNDr. Šimon Mackovjak, PhD.](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=10735) | 31.10.2016 | 0.33 |
| 4. | [Ing. Martina Šefčíková, PhD](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=4048) | 30.4.2016 | 0.33 |
| **Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)** | | | |
| 1. | [Mgr. Ivan Shepa](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=9490) | 30.11.2016 | 0.60 |
| **Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)** | | | |
| 1. | [Mgr. Iryna Khmara](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=10739) | 31.12.2016 | 0.16 |
| **Odborní pracovníci ÚSV** | | | |
| 1. | [Tomáš Feher](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=9981) | 12.11.2016 | 0.83 |
| **Ostatní pracovníci** | | | |
| 1. | [Ľudmila Ristvejová](http://www.sav.sk/index.php?lang=sk&charset=&doc=org-user&user_no=6318) | 31.12.2016 | 0.37 |

**Zoznam doktorandov**

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| --- | --- | --- | --- |
|  | **Meno s titulmi** | **Škola/fakulta** | **Študijný odbor** |
| **Interní doktorandi hradení z prostriedkov SAV** | | | |
| 1. | Mgr. František Andrejka | Hutnícka fakulta TUKE | 5.2.26 materiály |
| 2. | Mgr. Michal Dančo | Prírodovedecká fakulta UPJŠ | 4.1.2 všeobecná fyzika a matematická fyzika |
| 3. | Mgr. Miroslav Gančár | Prírodovedecká fakulta UPJŠ | 4.1.12 biofyzika |
| 4. | Mgr. Veronika Gdovinová | Prírodovedecká fakulta UPJŠ | 4.1.3 fyzika kondenzovaných látok a akustika |
| 5. | Ing. Petra Hajdová | Technická univerzita v Košiciach | 5.2.26 materiály |
| 6. | Mgr. Veronika Hašková | Prírodovedecká fakulta UPJŠ | 4.1.3 fyzika kondenzovaných látok a akustika |
| 7. | Mgr. Michaela Jeníková | Prírodovedecká fakulta UPJŠ | 4.1.3 fyzika kondenzovaných látok a akustika |
| 8. | Ing. Michal Kopčík | Technická univerzita v Košiciach | 5.2.48 fyzikálne inžinierstvo |
| 9. | Ing. Branislav Kunca | Technická univerzita v Košiciach | 5.2.48 fyzikálne inžinierstvo |
| 10. | Mgr. Jozefína Majorošová | Prírodovedecká fakulta UPJŠ | 4.1.3 fyzika kondenzovaných látok a akustika |
| 11. | Mgr. Zuzana Medvecká | Prírodovedecká fakulta UPJŠ | 4.1.3 fyzika kondenzovaných látok a akustika |
| 12. | Mgr. Martin Menkyna | Prírodovedecká fakulta UPJŠ | 4.1.2 všeobecná fyzika a matematická fyzika |
| 13. | Ing. Zuzana Molčanová | Hutnícka fakulta TUKE | 5.2.26 materiály |
| 14. | Mgr. Matúš Orendáč | Prírodovedecká fakulta UPJŠ | 4.1.3 fyzika kondenzovaných látok a akustika |
| 15. | Mgr. Tomáš Tobiáš | Fakulta humanitných a prírodných vied PU | 4.1.3 fyzika kondenzovaných látok a akustika |
| 16. | Mgr. František Vavrek | Prírodovedecká fakulta UPJŠ | 4.1.3 fyzika kondenzovaných látok a akustika |
| 17. | Mgr. Renáta Verbová | Hutnícka fakulta TUKE | 5.2.26 materiály |
| 18. | Ing. Liudmila Vojtková | Hutnícka fakulta TUKE | 5.2.26 materiály |
| **Interní doktorandi hradení z iných zdrojov** | | | |
| *organizácia nemá interných doktorandov hradených z iných zdrojov* | | | |
| **Externí doktorandi** | | | |
| 1. | Ing. Richard Jacko | Hutnícka fakulta TUKE | 5.2.26 materiály |

**Zoznam emeritných vedeckých zamestnancov**

|  |  |
| --- | --- |
|  | **Meno s titulmi** |

***Príloha B***

**Projekty riešené v organizácii**

**Medzinárodné projekty**

**Programy: Medziakademická dohoda (MAD)**

**1.) Mechanické vlastnosti a prejavy porušenia vysokopevných nanokryštalických kovov pripravených metódou viacnásobnej plastickej deformácie pri teplotách 300 a 77 K.** *(Mechanical properties and failure pecurarities of the high-strength nanocrystalline metals, processed by the method of severe plastic deformation at temperatures 300 and 77 K)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Kornel Csach |
| **Trvanie projektu:** | 1.1.2014 / 31.12.2016 |
| **Evidenčné číslo projektu:** |  |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** |  |

*Dosiahnuté výsledky:*   
Fraktografická analýza nanokryštalickej medi spracovanej ECAP procesom porušenej pri nízkych teplotách ukázala na rozhodujúci príspevok dekohézie na rozhraní matrica - oxidické častice.   
   
Juríková A., Csach K., Miškuf J., Huráková M., Tabachnikova E.D., Podolskiy A.V.: Deformation and failure of ultrafine-grained Cu at subambient temperature, Abstract Booklet of 16th Inter. Conf. METALLOGRAPHY 2016, Stará Lesná, Slovak Republic, 2016, p.116.   
   
   
**2.) Amyloidná agregácia proteínov na hybridných povrchoch**  *(Amyloid aggregation of proteins in hybrid interfaces)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Zuzana Gažová |
| **Trvanie projektu:** | 11.1.2016 / 31.12.2017 |
| **Evidenčné číslo projektu:** |  |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 1 - Taliansko: 1 |
| **Čerpané financie:** |  |

*Dosiahnuté výsledky:*   
Študovali sme vlastnosti a morfológiu amyloidných agregátov vytvorených z globulárnych proteínov (lyzozým a inzulín) pomocou spektroskopických metód a atómovej silovej mikroskopie ako aj ich vplyv na lipidové dvojvrstvy bunkových membrán. Sústredili sme sa na sledovanie prežívania neurálnych buniek v prítomnosti amyloidných agregátov.   
   
Zuzana Bednarikova, Eva Bystrenova, Mai Suan Li, Maria-Magdalena Mocanu, Steven S.-S.Wang, Rui Wang, Zuzana Gazova: AFM study of amyloid self-assembly. Book of abstract StSPM´meeting 16, 20. – 21.10. 2016 Bologna, Italy, p. 34   
   
E. Bystrenova, Z. Bednarikova, M. Barbalinardo, C. Albonetti, F. Valle, Z. Gazova: Lysozyme amyloid species and their influence on neural cell viability. Book of Contributions, 7th Slovak Biophysical Symposium, 2016, Novy Smokovec, p. 79.   
   
**3.) Radiačné polia v blízkosti Zeme: možné súvislosti s kozmickým žiarením meraným na zemskom povrchu**

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Karel Kudela |
| **Trvanie projektu:** | 1.1.2015 / 31.12.2017 |
| **Evidenčné číslo projektu:** | SAV-AV ČR 15-19 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** |  |

*Dosiahnuté výsledky:*   
M. Kákona, O. Ploc, D. Kyselová, J. Kubančák, R. Langer, K. Kudela (koresp. autor), Investigation on contribution of neutron monitor data to estimation of   
aviation doses, Life Sciences in Space Research 11 (2016) 24–28   
   
**4.) Hierarchia fázových prechodov v kooperatívnych systémoch so spinovou interakciou: Zameranie na emergentné časové škálovanie pre čítacie hlavy** *(Hierarchi of phase transitions in cooperative systems with spin-interactions: Towards emergent time-scales for read-heads)*

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| **Zodpovedný riešiteľ:** | Marián Mihalik |
| **Trvanie projektu:** | 1.1.2014 / 31.12.2016 |
| **Evidenčné číslo projektu:** |  |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 4 - Ukrajina: 4 |
| **Čerpané financie:** |  |

*Dosiahnuté výsledky:*   
M. Zentková, M. Mihalik, M. Mihalik jr., V. Sirenko, V. V. Eremenko, A. M. Balbashov, L. Kvetková, V. Kovaľ, A. Výrostková, J. Briančin, X. Wang, K. Kamenev, Preparation and physical properties of M-type hexaferrite SrCo2Ti2Fe8O19, Ferroelectrics 499 (2016), 1-8 (0.53 - IF 2015)   
   
**5.) Spektroskopické, transportné a termodynamické vlastnosti silno korelovaných elektrónových systémov s konkurenčnými parametrami usporiadania** *(Spectroscopic, transport and thermodynamic properties of strongly-correlated electronic systems with competing orders)*

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| **Zodpovedný riešiteľ:** | Zuzana Vargaeštoková |
| **Trvanie projektu:** | 1.1.2015 / 31.12.2017 |
| **Evidenčné číslo projektu:** |  |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 1 - Argentína: 1 |
| **Čerpané financie:** |  |

*Dosiahnuté výsledky:*   
V rámci projektu sme skúmali tepelnú kapacitu ťažko-fermiónového supravodiča CeCoIn5. Zistili sme, že poľová závislosť tepelnej kapacity má netriviálny priebeh, ktorý pravdepodobne súvisí s poľovou závislosťou hustoty stavov. Výsledky boli prezentované na Konferencii českých a slovenských fyzikov.   
   
**6.) Štúdium nových magnetických materiálov** *(Comprehensive studies of novel magnetic materials)*

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| **Zodpovedný riešiteľ:** | Mária Zentková |
| **Trvanie projektu:** | 1.1.2016 / 1.1.2018 |
| **Evidenčné číslo projektu:** | 16/2016 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 2 - Poľsko: 2 |
| **Čerpané financie:** |  |

*Dosiahnuté výsledky:*   
1. [1]M. Mihalik, Z. Jagličić, M. Fitta, V. Kavečanský, K. Csach, A. Budziak, J. Briančin, M. Zentková, M. Mihalik, Structural and magnetic study of PrMn1-xFexO3 compounds, Journal of Alloys and Compounds 687 (2016), 652-661   
   
**Programy: Medziústavná dohoda**

**7.) Štúdium amyloidnej agregácie proteínov in vitro a v mozgomiešnom moku**  *(Study of the protein amyloid aggregation in vitro and in cerebrospinal fluid)*

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| **Zodpovedný riešiteľ:** | Zuzana Gažová |
| **Trvanie projektu:** | 13.7.2015 / 31.12.2020 |
| **Evidenčné číslo projektu:** | - |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 1 - Česko: 1 |
| **Čerpané financie:** |  |

*Dosiahnuté výsledky:*   
Sledovanie biochemických a fyzikálnych parametrov mozgomiešneho moku ľudí trpiacich na Alzheimerovu chorobu.   
   
**Programy: Medzivládna dohoda**

**8.) Fyzikálne mechanizmy nízkoteplotnej plastickej deformácie a porušovania nových vysokopevných multikomponentých amorfných a vysokoentropických zliatin** *(Physical Mechanisms of the Low Temperature Plastic Deformation and Failure of New High Strength Multicomponent Amorphous and High-Entropy Alloys)*

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| **Zodpovedný riešiteľ:** | Kornel Csach |
| **Trvanie projektu:** | 1.4.2015 / 31.12.2016 |
| **Evidenčné číslo projektu:** | SK-UA-2013-0027 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** |  |

*Dosiahnuté výsledky:*   
Mechanickými skúškami pri zaťažení v tlaku v širokom intervale teplôt (4,2 - 300 K) boli študované vysokoentropické zliatiny CoCrFeNiMnVx (x=0, 0.25, 0.5, 0.75) s rozdielnym podielom intermetalickej fázy. Zvláštnosti kriviek napätie - deformácia, štádia deformačného spevnenia, teplotná závislosť medze sklzu a citlivosť na rýchlosť deformácie bola zaznamenávaná. Interpretácia výsledkov sme robili v rámci modelu dislokačného sklzu ako základného deformačného mechanizmu v fcc fáze matrice. Do interpretácie deformačných vlastností CoCrFeNiMnVx zliatiny bol zahrnutý aj vplyv častíc sigma fázy, deformačných dvojčiat a vrstevných chýb.   
MIŠKUF, Jozef - CSACH, Kornel - JURÍKOVÁ, Alena - HURÁKOVÁ, Mária - MIŠKUF, Martin - TABACHNIKOVA, Elena. Indication of conchoidal fracture of Zr and Mg-based amorphous glass. In Metallography´16 : 16th international symposium on metallography and materials science. Abstract booklet. Stará Lesná, 20.-22.4.2016. - Košice : HF TU, 2016, p. 123.   
   
**9.) Relaxácia a fotoindukované javy v chalkogenidových sklách**  *(Relaxation and photoinduced phenomena in chalcogenide glasses)*

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| **Zodpovedný riešiteľ:** | Karol Flachbart |
| **Trvanie projektu:** | 1.1.2015 / 31.12.2016 |
| **Evidenčné číslo projektu:** | SR-UA-2013-0028 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** |  |

*Dosiahnuté výsledky:*   
Bola pripravená publikácia " Relaxation processes in chalcogenide glasses" (V. Bilanych, K. Flachbart, A. Jurikova, K. Csach, V. Rizak) pre zaslanie do Journal of Non-Crystalline Solids.   
   
**10.) Príprava a charakterizácia grafénu s kontrolovateľnou korugáciou povrchu** *(Elaboration and characterization of graphene layers with controlled nanoscale rippling)*

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| **Zodpovedný riešiteľ:** | Pavol Szabó |
| **Trvanie projektu:** | 1.1.2015 / 31.12.2016 |
| **Evidenčné číslo projektu:** | SK-HU-2013-0039 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 2 - Maďarsko: 2 |
| **Čerpané financie:** |  |

*Dosiahnuté výsledky:*   
Počas posledného roku riešenia projektu našim cieľom bolo experimentálne skúmanie efektu blízkosti (proximity effect) medzi grafénom a supravodivými nanočasticami (cín) uloženými medzi podložkou a priľahlým grafénom pomocou nízkoteplotného rastrovacieho tunelového mikroskopu (STM). V spolupráci so skupinou Z. Osvátha z ITPM v Budapešti sme vypracovali technológiu krátkodobého naparovania cínu na výrobu agregovných nanometrových klastrov na vodivé (grafit) substráty. Nanoštruktúry cínu boli zakryté CVD grafénom, ktorý bol vyrobený v Kórei. Takto získané nanoštruktúry cín/grafén boli študované v Košiciach pomocou nízkoteplotného rastrovacieho tunelového mikroskopu ÚEF SAV. STM štúdium týchto povrchov poukázal, že grafén nezakryl celý povrch substrátu 5 mm x 5 mm ale vytvoril veľa menších súvislých oblastí. STM štúdium týchto povrchov poukázalo na silnú oxidáciu oblastí nezakrytých grafénom. V oblastiach, kde bola súvislá vrstva grafénu sme študovať povrch heteroštruktúry a videli sme aj povrch grafénu s atomárnym rozlíšením. V týchto oblastiach vzorky grafén vykazoval veľmi dobrú priliehavosť. Na štruktúrach, kde vzdialenosť cínových nanoklastrov bola na úrovni veľkosti klastrov, sme pozorovali suspendované – voľne napnuté vrstvy grafénu. Topografie, merané v oblastiach so suspendovaným grafénom vykazovali charakteristické oscilácie, ktoré vytvorili dobre ohraničené oblasti povrchu. Pravdepodobne ide o vplyv silového pôsobenia STM ihly na voľne napnutý grafén počas skenovania. Vplyv vzdialenosti STM ihly a veľkosti tunelového napätia na suspendovanú vrstvu grafénu bude predmetom ďalšieho štúdia.   
Vplyv blízkosti supravodiča na hustotu stavov v graféne sme študovani lokálnymi meraniami hustoty stavov pri teplotách T = 400 - 500 mK v Košiciach. Naše výsledky poukázali na vysokú nehomogenitu indukovanej supravodivosti v graféne. Navyše, v oblastiach, kde sa grafén evidentne nachádzal, na povrchu nanoklastra sme často ani nevideli prejav supravodivosti. Analýzou košických STM dát a výsledkov Ramanovej spektroskopie z Budapešti sme zistili, že cín v našich nanoštruktúrach je silne oxidovaný a grafénová vrstva sa nachádza na povrchu polovodivých SnO nanoklastrov. Výsledky tejto analýzy budú publikované v spoločnej práci.   
Z dosiahnutých výsledkov vplýva, že vysoká nehomogenita indukovanej supravodivosti v graféne vzniká dôsledkom silnej oxidácie cínových nanoklastrov pred uložením grafénovej vrstvy. Grafénové heteroštruktúry musia byť pripravené v podmienkach UHV.   
S maďarskými kolegami sme sa dohodli, že v projekte budeme pokračovať. Supravodivé nanoštruktúry budú pripravené nanolitografiou v Košiciach a heteroštruktúry s grafénom budú vytvorené rôznymi metódami na oboch pracoviskách.   
   
**Programy: COST**

**11.) Multifunkcionalizované nanočastice pre magnetickú hypertermiu a nepriamu radiačnú**  *(Multifunctional Nanoparticles for Magnetic Hyperthermia and Indirect Radiation Therapy)*

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| **Zodpovedný riešiteľ:** | Peter Kopčanský |
| **Trvanie projektu:** | 13.11.2014 / 12.11.2018 |
| **Evidenčné číslo projektu:** | COST 054/14 akcia TD1402 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Royal Meteorological Institute Centre de Physique du Globe, Dourbes (Viroinval) |
| **Počet spoluriešiteľských inštitúcií:** | 35 - Rakúsko: 3, Belgicko: 3, Cyprus: 1, Česko: 1, Nemecko: 5, Dánsko: 1, Španielsko: 1, Francúzsko: 3, Veľká Británia: 1, Grécko: 2, Maďarsko: 1, Švajčiarsko: 1, Írsko: 1, Taliansko: 1, Nórsko: 1, Poľsko: 1, Portugalsko: 3, Rumunsko: 2, Srbsko: 1, Švédsko: 1, Turecko: 1 |
| **Čerpané financie:** | Podpora medzinárodnej spolupráce z národných zdrojov: 3500 € |

*Dosiahnuté výsledky:*   
V práci [1] sú porovnávané dve vzorky magnetozómov: prvá pozostáva z retiazok magnetozómov „štandardnej“ dĺžky a druhá obsahuje krátke retiazky magnetozómov. Magnetické vlastnosti magnetozómov sú analyzované a porovnané v jednosmernom a striedavom magnetickom poli v závislosti od vyhodnocovania kvázi-statických hysteréznych slučiek (energetické straty) resp. kalorimetrickej hypertermie (špecifická miera absorpcie). Zavedený postup rozlíšenia medzi relaxačnými a hysteréznymi stratami umožňuje prispôsobiť parametre aplikovaného magnetického poľa. (amplitúda resp. frekvencia) vzhľadom na magnetické správanie magnetozómov tak, aby sa dosiahol maximálny tepelný výkon.   
Práca [2] predstavuje vplyv sonifikácie suspenzie magnetozómov na ich akustické vlastnosti ako rýchlosť a útlm zvuku. Štúdium akustických vlastností ukazuje, že rýchlosť šírenia zvuku je nižšia v prípade sonifikovanej vzorky v porovnaní so „štandardnou“, nakoľko tuhosť média obsahujúceho retiazky častíc je väčšia v dôsledku magnetickej dipól-dipólovej interakcie medzi časticami v retiazke.   
Práca [4] opisuje naviazanie protilátky M75 na amino modifikované magnetické nanočastice dvoma spôsobmi: priamo a pomocou karbodiimidu. Bola skúmaná endocytóza takto funcionalizovaných nanočastíc a vplyv na viabilitu nádorových i nenádorových buniek v rozličných časových intervaloch.   
1.MOLČAN, Matus - GOJZEWSKI, Hubert - SKUMIEL, Andrzej - DUTZ, Silvio - KOVAC, Jozef - KUBOVCIKOVA, Martina - KOPCANSKY, Peter - VEKAS, Ladislau - TIMKO, Milan. Energy losses in mechanically modified bacterial magnetosomes, Journal of Physics D, Applied Physics, Volume: 49, Issue: 36, (2016) Article Number: 365002, DOI: 10.1088/0022-3727/49/36/365002   
   
2.JÓZEFCZAK, Arkadiusz - HORNOWSKI, Tomasz – KRÓL, Anita – MOLČAN, Matúš - LESZCZYŃSKI, Błażej – TIMKO, Milan. The Effect of Sonication on Acoustic Properties of Biogenic Ferroparticle Suspension, ARCHIVES OF ACOUSTICS, Vol. 41, No. 1, pp. 161–168 (2016), DOI: 10.1515/aoa-2016-0016   
   
3.MOLCAN, Matus – PETRENKO, V.I. – AVDEEV, M.V. – IVANKOV, O.I. – GARAMUS, V.M. – SKUMIEL, Andrzej – JOZEFCAK, Arkadius – KUBOVCIKOVA, Martina - KOPCANSKY, Peter – TIMKO, Milan. Structure characterization of the magnetozome solutions for hyperthermia study, J Molecular Liquids, DOI:10,1016/j.moliq.2016.12.054   
   
4.I. Khmara, Iryna - Koneracka, Martina - Kubovcikova, Martina - Zavisova, Vlasta - Antal, Iryna - Csach, Kornel - Kopcansky, Peter - VIDLIČKOVÁ, Ivana - CSÁDEROVÁ, Lucia - PASTOREKOVÁ, Silvia - ZAŤOVIČOVÁ, Miriam. Preparation of poly-L-Lysine functionalized magnetic nanoparticles and their influence on viability of cancer cells, http://dx.doi.org/10.1016/j.jmmm.2016.11.014 JMMM – prijaté: 1 November 2016   
   
   
**12.) Supravodivosť na nanoškále: Nové funkcionality prostredníctvom optimalizovaného ohraničenia kondenzátu a polí** *(Nanoscale Superconductivity:\_Novel Functionalities through Optimized \_Confinement of Condensate and Fields)*

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| **Zodpovedný riešiteľ:** | Peter Samuely |
| **Trvanie projektu:** | 19.10.2012 / 18.10.2016 |
| **Evidenčné číslo projektu:** | MPNS COST Action MP1201 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Prof. Victor V. Moshchalkov |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** |  |

*Dosiahnuté výsledky:*   
V roku 2016 sa slovenskí účastníci, ktorí pochádzajú z ÚEF SAV, ElÚ SAV, FMFI UK a Materiálovo-technologickej fakulty STU, zapájali opäť do Pracovného balíka WP2 Charakterizácia, ako aj do participácie na dvoch hlavných podujatiach projektu. Prvým bol Workshop Probing Superconductivity at the Nanoscale: New advances, Saas Fee, Švajčiarsko, 11. - 15.4.2016. Tam sme predniesli 2 pozvané prednášky:   
SZABÓ, Pavol - HAŠKOVÁ, Veronika - SAMUELY, Tomáš - KAČMARČÍK, Jozef - ŽEMLIČKA, M. - GRAJCAR, M. - RODRIGO, J.G. - SAMUELY, Peter. STM studies of the superconductor-insulator transition in MoC ultrathin films. Zborník, s. 6.   
   
MEDVECKÁ, Zuzana - PRIBULOVÁ, Zuzana - SZABÓ, Pavol - KAČMARČÍK, Jozef - KLEIN, T. - LEVY-BERTRAND, F. - MARCENAT, C. - KARAPETROV, Goran - IAVARONE, M. - SAMUELY, Peter. Interplay of CDW and superconducting orders in copper vdoped TiSe2 single crystals. In Probing Superconductivity at the Nanoscale: New advances, Saas-Fee, Zborník s. 20.   
   
Ďalej to bola konferencia Nanoconfined superconductors, Garmisch-Partenkirchen, Nemecko, 3.-7.9.2016   
   
3 pozvané prednášky   
Peter Samuely, P. Szabó, J. Kačmarčík, M. Žemlička, M. Grajcar, Influence of magnetic field on the Altshuler-Aronov effect in homogeneously disordered ultrathin superconducting MoC films.   
   
Gufei Zhang, T. Samuely, J. Vanacken, P.W. May, M. Zeleznik, J. Kacmarcik, P. Szabo, J. Li, P. Samuely, V.V. Moshchalkov, Superconductivity in Diamond.   
   
Tomas Samuely, G. Zhang, J. Vanacken, P.W. May, M. Zeleznik, J. Kacmarcik, P. Szabo, J. Li, P. Samuely, V.V. Moshchalkov, Local electronic properties of superconducting boron – doped diamond   
   
2 postre prezentované Dr. Z. Vargaeštókovou a Z. Medveckou.   
   
Projekt bol úspešne ukončený v októbri 2016. Zúčastnené tímy sa rozhodli pokračovať v spolupráci a podať ďalší projekt COST. P. Samuely bol jedným z predkladateľov nového projektu v decembri 2016.   
   
   
   
   
   
**13.) Neglobulárne proteíny - od sekvencie ku štruktúre, funkcii a aplikácii v molekulárnej fyziopatológii** *(Non-globular proteins - from sequence to structure, function and application in molecular physiopathology)*

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| **Zodpovedný riešiteľ:** | Rostislav Škrabana |
| **Zodpovedný riešiteľ v organizácii SAV:** | Zuzana Gažová |
| **Trvanie projektu:** | 27.7.2015 / 25.3.2019 |
| **Evidenčné číslo projektu:** | COST Action BM1405 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 28 - Rakúsko: 2, Belgicko: 2, Cyprus: 1, Česko: 1, Nemecko: 2, Francúzsko: 2, Grécko: 1, Maďarsko: 2, Írsko: 1, Izrael: 1, Taliansko: 2, Litva: 1, Lotyšsko: 1, Nórsko: 2, Poľsko: 2, Portugalsko: 2, Srbsko: 2, Slovensko: 0, Slovinsko: 1 |
| **Čerpané financie:** | Podpora medzinárodnej spolupráce z národných zdrojov: 3500 € |

*Dosiahnuté výsledky:*   
Uskutočnili sme in vitro a in silico štúdium väzobnej afinity fulerenolu k Abeta peptidu s cieľom zistiť jeho inhibičnú aktivitu na amyloidnú fibrilizáciu peptidu. Fulerenol so 16 OH skupinami na povrchu bol schopný redukovať tvorbu amyloidných agregátov. Zistili sme, že sa prednostne viaže na C koniec Abeta peptidu, kde ovplyvňuje flexibilitu soľného mostíka tvoreného aminokyselinami D23 a K28, ktorý je zodpovedný za vznik amyloidných štruktúr. V prípade 7-methoxytacrine - adamantylamine heterodimérov, štruktúra molekuly podmieňovala úroveň ich multi-targetového terapeutického potenciálu vrátane redukcie tvorby amyloidných agregátov. Detailnejšie sme študovali vzťah medzi štruktúrou akridínových derivátov a ich anti-amyloidnou aktivitou.   
   
Bednarikova Z., Huy P. D. Q., Mocanu M. M., Fedunova D., Li M. S., Gazova Z.: Fullerenol C60(OH)16 prevents amyloid fibrillization of Abeta40 – in vitro and in silico approach. Physical Chemistry Chemical Physics, 18, 18855-18867 (2016)   
Zuzana Gazova, Ondrej Soukup, Vendula Sepsova, Katarina Siposova, Lucie Drtinova, Petr Jost, Katarina Spilovska, Jan Korabecny, Eugenie Nepovimova, Diana Fedunova, Martin Horak, Martina Kaniakova, Ze-Jun Wang, Ayman K. Hamouda, Kamil Kuca: Multi-target-directed therapeutic potential of 7-methoxytacrine- adamantylamine heterodimers in the Alzheimer's disease treatment. BBA - Molecular Basis of Diseas: DOI:10.1016/j.bbadis.2016.11.020, Published: November 16 (2016)   
K. Ulicna, J. Kubackova, Z. Bednarikova, Z. Gazova: Structure of the acridine derivates affects amyloid aggregation of Abeta peptide. Abstract book, 2nd NGP-NET COST Symposium, Non-globular proteins in molecular physiopathology, September 15 -17 2016, Belehrad, Srbsko, P29   
   
**14.) Prekonanie bariiér pre komerčné využitie nanokvapalín (NANOUPTAKE)** *(Overcoming Barriers to Nanofluids Market Uptake ( NANOUPTAKE))*

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| **Zodpovedný riešiteľ:** | Milan Timko |
| **Trvanie projektu:** | 19.4.2016 / 18.4.2020 |
| **Evidenčné číslo projektu:** | COST 051/15, COST Action CA15119 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 48 - Česko: 1, Nemecko: 1, Dánsko: 3, Fínsko: 2, Francúzsko: 1, Veľká Británia: 2, Grécko: 3, Izrael: 1, Taliansko: 7, Nórsko: 1, Poľsko: 2, Portugalsko: 6, Rumunsko: 4, Srbsko: 6, Slovinsko: 1, Švédsko: 4, Turecko: 3 |
| **Čerpané financie:** | Podpora medzinárodnej spolupráce z národných zdrojov: 2625 € |

*Dosiahnuté výsledky:*   
Predmetom nášho výskumu bola magnetická kvapalina vyrobená na báze transformátorového oleja Mogul. Skúmali sme dielektrickú odozvu čistého oleja a magnetickej kvapaliny vo frekvenčnom pásme od 1 mHz do 250 kHz. Základným výsledkom tohto štúdia je pozorovaný vplyv magnetického poľa na akumuláciu priestorového náboja pri elektródach a pokles dielektrickej permitivity v celom frekvenčnom pásme pri naloženom magnetickom poli. Dosiahnuté výsledky sú uvedené v nasledujúcej práci:   
   
1.Michal Rajnak, Bystrik Dolnik, Juraj Kurimsky, Roman Cimbala, Peter Kopcansky,Milan Timko, Electrode polarization and unusual magnetodielectric effect in a transformer oil-based magnetic nanofluid thin layer, J Chem Phys 146 (1), 014704. 2017 Jan 07, DOI: 10.1063/1.4973545   
   
**Programy: CERN/MŠ**

**15.) Experiment ATLAS na LHC v CERN: hlboko-nepružné javy a nová fyzika pri TeV energiách** *(ATLAS experiment on LHC in CERN: deep-inelastic events and new physics at TeV energies)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Dušan Bruncko |
| **Trvanie projektu:** | 1.1.2016 / 31.12.2020 |
| **Evidenčné číslo projektu:** | 0207/2016 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** |  |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** |  |

*Dosiahnuté výsledky:*   
Topological cell clustering in the ATLAS calorimeters and its performance in LHC Run 1   
The ATLAS collaboration (G. Aad et al.).   
arXiv:1603.02934   
Submitted to European Physical Journal C   
   
 Charged-particle distributions in $pp$ interactions at $\sqrt{s}=8$ TeV measured with the ATLAS detector at the LHC   
The ATLAS collaboration (G. Aad et al.).   
arXiv:1603.02439   
European Physical Journal C 76 (2016), 403   
   
Measurements of $W^\pm Z$ production cross sections in $pp$ collisions at $\sqrt{s} = 8$ TeV with the ATLAS detector and limits on anomalous gauge boson self-couplings   
The ATLAS collaboration (G. Aad et al.).   
arXiv:1603.02151   
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Measurement of total and differential $W^+W^-$ production cross sections in proton-proton collisions at $\sqrt{s}=8$ TeV with the ATLAS detector and limits on anomalous triple-gauge-boson couplings   
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The ATLAS collaboration (G. Aad et al.).   
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Measurement of the top quark mass in the $t\bar{t}\to$ dilepton channel from $\sqrt{s}=8$ TeV ATLAS data   
The ATLAS collaboration (G. Aad et al.).   
arXiv:1606.02179   
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Search for the Standard Model Higgs boson produced by vector-boson fusion in 8 TeV pp collisions and decaying to bottom quarks with the ATLAS detector   
The ATLAS collaboration (G. Aad et al.).   
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The ATLAS collaboration (G. Aad et al.)   
arXiv:1606.02625   
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Measurement of the $t\bar{t}$ production cross-section using $eÎĽ$ events with b-tagged jets in pp collisions at $\sqrt{s}$=13 TeV with the ATLAS detector   
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arXiv:1606.03833   
Journal of High Energy Physics 09 (2016), 001   
   
Search for top squarks in final states with one isolated lepton, jets, and missing transverse momentum in $\sqrt{s}=13$ TeV $pp$ collisions with the ATLAS detector   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1606.03903   
Phys. Rev. D 94 (2016), 052009   
   
Search for new resonances in events with one lepton and missing transverse momentum in $pp$ collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1606.03977   
Physics Letters B 762 (2016), 334   
   
Measurement of the $W^{\pm}Z$ boson pair-production cross section in $pp$ collisions at $\sqrt{s}=13$ TeV with the ATLAS Detector   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1606.04017   
Physics Letters B 762 (2016), 1–22   
   
Search for pair production of Higgs bosons in the $b\bar{b}b\bar{b}$ final state using proton--proton collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1606.04782   
Phys. Rev. D 94 (2016), 052002   
   
Searches for heavy diboson resonances in $pp$ collisions at $\sqrt{s}=13$ TeV with the ATLAS detector   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1606.04833   
Journal of High Energy Physics 09 (2016), 173   
   
Search for heavy long-lived charged $R$-hadrons with the ATLAS detector in 3.2 fb$^{-1}$ of proton--proton collision data at $\sqrt{s} = 13$ TeV   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1606.05129   
Physics Letters B 760 (2016), 647-665   
   
   
The performance of the jet trigger for the ATLAS detector during 2011 data taking   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1606.07759   
Journal of High Energy Physics 76 (2016), 526   
   
Measurement of forward-backward multiplicity correlations in lead-lead, proton-lead and proton-proton collisions with the ATLAS detector   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1606.08170   
Submitted to Phys. Rev. C   
   
Search for the Higgs boson produced in association with a $W$ boson and decaying to four $b$-quarks via two spin-zero particles in $pp$ collisions at 13 TeV with the ATLAS detector   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1606.08391   
European Physical Journal C 76 (2016), 605   
   
Search for bottom squark pair production in proton--proton collisions at $\sqrt{s}=$13 TeV with the ATLAS detector   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1606.08772   
European Physical Journal C 76 (2016), 547   
   
Search for supersymmetry in a final state containing two photons and missing transverse momentum in $\sqrt{s}$ = 13 TeV $pp$ collisions at the LHC using the ATLAS detector   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1606.09150   
European Physical Journal C 76 (2016), 517   
   
Measurement of jet activity in top quark events using the $e\mu$ final state with two $b$-tagged jets in $pp$ collisions at $\sqrt{s}=8$ TeV with the ATLAS detector   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1606.09490   
Journal of High Energy Physics 09 (2016), 074   
   
 Search for Higgs and $Z$ Boson Decays to $\Phi\gamma$ with the ATLAS Detector   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1607.03400   
Physical Review Letters 117 (2016), 111802   
   
Search for high-mass new phenomena in the dilepton final state using proton--proton collisions at $\sqrt{s}=13$ TeV with the ATLAS detector   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1607.03669   
Physics Letters B 761 (2016), 372-392   
   
Measurement of exclusive $\gamma\gamma \rightarrow W^+W^-$ production and search for exclusive Higgs boson production in $pp$ collisions at $\sqrt{s}=8$ TeV using the ATLAS detector   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1607.03745   
Physical Review D 94 (2016), 032011   
   
Search for new resonances decaying to a $W$ or $Z$ boson and a Higgs boson in the $l^+l^- b \bar b$, $l\nu b \bar b$, and $\nu \bar\nu b \bar b$ channels with $pp$ collisions at $\sqrt{s}=13$ TeV with the ATLAS detector   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1607.05621   
Physics Letters B 765 (2017), 32-52   
   
Search for squarks and gluinos in events with hadronically decaying tau leptons, jets and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV recorded with the ATLAS detector   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1607.05979   
European Physical Journal C 76 (2016), 683   
   
Search for heavy resonances decaying to a $Z$ boson and a photon in $pp$ collisions at $\sqrt{s}=13$ TeV with the ATLAS detector   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1607.06363   
Physics Letters B 764 (2016), 11   
   
Measurement of the total cross section from elastic scattering in $pp$ collisions at $\sqrt{s}=8$ TeV with the ATLAS detector   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1607.06605   
Physics Letters B 761 (2016), 158-178   
   
Measurement of top quark pair differential cross-sections in the dilepton channel in $pp$ collisions at $\sqrt{s}= $ 7 and 8 TeV with ATLAS   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1607.07281   
Physical Review D 94 (2016), 092003   
   
Search for new phenomena in different-flavour high-mass dilepton final states in $pp$ collisions at $\sqrt{s}=13$ TeV with the ATLAS detector   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1607.08079   
European Physical Journal C 76 (2016), 541   
   
Measurement of the $b\bar b$ dijet cross section in $pp$ collisions at $\sqrt{s}=7$ TeV with the ATLAS detector   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1607.08430   
European Physical Journal C 76 (2016), 670   
   
A measurement of the calorimeter response to single hadrons and determination of the jet energy scale uncertainty using LHC Run-1 $pp$ collision data with the ATLAS detector   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1607.08842   
Submitted to European Physical Journal C   
   
Dark matter interpretations of ATLAS searches for the electroweak production of supersymmetric particles in $\sqrt{s}=8$~TeV proton--proton collisions   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1608.00872   
Journal of High Energy Physics 09 (2016), 175   
   
Search for Minimal Supersymmetric Standard Model Higgs bosons $H/A$ and for a $Z'$ boson in the $\tau\tau$ final state produced in $pp$ collisions at $\sqrt{s}=13$~TeV with the ATLAS Detector   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1608.00890   
European Physical Journal C 76 (2016), 585   
   
Measurement of the double-differential high-mass Drell-Yan cross section in $pp$ collisions at $\sqrt{s}$ = 8 TeV with the ATLAS detector   
The ATLAS collaboration (G. Aad et al.).   
arXiv:1606.01736   
Journal of High Energy Physics 08 (2016), 009   
   
Study of hard double-parton scattering in four-jet events in $pp$ collisions at $\sqrt{s}=7$~TeV with the ATLAS experiment   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1608.01857   
European Physical Journal C 11 (2016), 110   
   
Search for dark matter produced in association with a hadronically decaying vector boson in $pp$ collisions at $\sqrt{s}=13$~TeV with the ATLAS detector   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1608.02372   
Physics Letters B 763 (2016), 251   
   
Measurement of $W^+W^-$ production in association with one jet in proton--proton collisions at $\sqrt{s}=8$~TeV with the ATLAS detector   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1608.03086   
Physics Letters B 763 (2016), 114-133   
   
Luminosity determination in $pp$ collisions at $\sqrt{s}=8$~TeV using the ATLAS detector at the LHC   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1608.03953   
European Physical Journal C 76 (2016), 653   
   
Measurement of the $t\bar t Z$ and $t\bar t W$ production cross sections in multilepton final states using $3.2~\rm fb^{â?'1}$ of $pp$ collisions at $\sqrt{s}$=13~TeV with the ATLAS detector   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1609.01599   
Submitted to European Physical Journal C   
   
Measurement of the inclusive cross-sections of single top-quark and top-antiquark $t$-channel production in $pp$ collisions at $\sqrt{s}=13$~TeV with the ATLAS detector   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1609.03920   
Submitted to Journal of High Energy Physics   
   
A measurement of material in the ATLAS tracker using secondary hadronic interactions in 7 TeV pp collisions   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1609.04305   
Journal of Instrumentation 11 (2016), P11020   
   
Search for dark matter in association with a Higgs boson decaying to $b$ -quarks in $pp$ collisions at $\sqrt{s}=13$~TeV with the ATLAS detector   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1609.04572   
Physics Letters B 765 (2017), 11   
   
Search for anomalous electroweak production of $WW/WZ$ in association with a high-mass dijet system in $pp$ collisions at $\sqrt{s}=8$~TeV with the ATLAS detector   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1609.05122   
Submitted to Physical Review D   
   
Measurements of long-range azimuthal anisotropies and associated Fourier coefficients for $pp$ collisions at $\sqrt{s}=$~5.02 and 13 TeV and $p+Pb$ collisions at $\sqrt{s\_{NN}}=5.02$~TeV with the ATLAS detector   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1609.06213   
Submitted to Physical Review C   
   
Measurement of $W$ boson angular distributions in events with high transverse momentum jets at $\sqrt{s}=$~8 TeV using the ATLAS detector   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1609.07045   
Physics Letters B 765 (2017), 132   
   
Performance of algorithms that reconstruct missing transverse momentum in $\sqrt{s}=$~8 TeV proton-proton collisions in the ATLAS detector   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1609.09324   
Submitted to European Physical Journal C   
   
Search for triboson $W^{\pm}W^{\pm}W^{\pm}$ production in $pp$ collisions at $\sqrt{s}=$~8 TeV with the ATLAS detector   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1610.05088   
Submitted to European Physical Journal C   
   
Measurement of the $ZZ$ production cross section in $pp$ collisions at $\sqrt{s}=$~8 TeV using the $ZZ \rightarrow   
l^+l^-l^+l^-$ and $ZZ \rightarrow l^+l^-\nu \bar\nu$ channels with the ATLAS detector   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1610.07585   
Submitted to Journal of High Energy Physics   
   
Measurements of charge and CP asymmetries in $b$-hadron decays using top-quark events collected by the ATLAS detector in $pp$ collisions at $\sqrt{s}=$~8 TeV   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1610.07869   
Submitted to Journal of High Energy Physics   
   
Production measurements of $\Psi(2S)$ and $X(3872) \rightarrow J/\Psi \pi^+\pi^-$ at $\sqrt{s}=$~8 TeV with the ATLAS detector   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1610.09303   
Submitted to Journal of High Energy Physics   
   
Measurement of jet activity produced in top-quark events with an electron, a muon and two $b$-tagged jets in the final state in $pp$ collisions at $\sqrt{s}=$~13 TeV with the ATLAS detector   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1610.09978   
Submitted to European Physical Journal C   
   
Measurement of $W^{\pm}W^{\pm}$ diboson production and limits on anomalous quartic gauge couplings with ATLAS   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1611.02428   
Submitted to Physical Review D   
   
Search for new phenomena in events containing a same-flavour opposite-sign dilepton pair, jets, and large missing transverse momentum in $\sqrt{s}=$~13 TeV $pp$ collisions with the ATLAS detector   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1611.05791   
Submitted to European Physical Journal C   
   
High-$E\_T$ isolated-photon plus jets production in $PP$ collisions at $\sqrt{s}=$~8 TeV with the ATLAS detector   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1611.06586   
Submitted to Nuclear Physics B   
   
Addendum to: {\bf Measurement of the $t/bar t$ production cross-section using $e\mu$ events with $b$-tagged jets in $pp$ collisions   
at $\sqrt{s} =$ 7 and 8 TeV with the ATLAS detector}   
The ATLAS collaboration (G. Aad et al.)   
European Physical Journal C 76 (2016), 642, see also European Physical Journal C 74 (2014) 3109   
   
Performance of the ATLAS Trigger System in 2015   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1611.09661   
Submitted to European Physical Journal C   
   
Reconstruction of primary vertices at the ATLAS experiment in Run 1 proton-proton collisions at the LHC   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1611.10235   
Submitted to European Physical Journal C   
   
Electron efficiency measurements with the ATLAS detector using 2012 LHC proton-proton collision data   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1612.01456   
Submitted to European Physical Journal C   
   
Measurement of the $W$ boson polarisation in $t\bar{t}$ events from $pp$ collisions at $\sqrt{s}$ = 8 TeV in the lepton+jets channel with ATLAS   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1612.02577   
Submitted to European Physical Journal C   
   
Measurement of the $W$ boson polarisation in $t\bar{t}$ events from $pp$ collisions at $\sqrt{s}$ = 8 TeV in the lepton+jets channel with ATLAS   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1612.02950   
Submitted to European Physical Journal C   
   
Precision measurement and interpretation of inclusive $W^+$, $W^â?'$ and $Z/\gamma^\*$ production cross sections with the ATLAS detector   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1612.03016   
Submitted to European Physical Journal C   
   
Measurements of top-quark pair to $Z$ -boson cross-section ratios at $\sqrt{s}$ =$ 13, 8, 7 TeV with the ATLAS detector   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1612.03636   
Submitted to European Physical Journal C   
   
 Measurements of top-quark pair differential cross-sections in the $e\mu$ channel in $pp$ collisions at $\sqrt{s}$ =$ 13 TeV using the ATLAS detector   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1612.05220   
Submitted to European Physical Journal C   
   
Measurements of top quark spin observables in $t\bar t$ events using dilepton final states in $\sqrt{s} =$ 8 TeV $pp$ collisions with the ATLAS detectors   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1612.07004   
Submitted to European Physical Journal C   
   
Measurement of the cross-section for producing a $W$~boson in association with a single top quark in $pp$ collisions at $\sqrt{s} =$ 13 TeV with ATLAS   
The ATLAS collaboration (G. Aad et al.)   
arXiv:1612.07231   
Submitted to European Physical Journal C   
   
**16.) Experiment ALICE na LHC v CERN: Štúdium silno interagujúcej hmoty v extrémnych podmienkach** *(ALICE experiment at the CERN LHC: The study of strongly interacting matter under extreme conditions)*

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| **Zodpovedný riešiteľ:** | Ivan Králik |
| **Trvanie projektu:** | 1.1.2016 / 31.12.2020 |
| **Evidenčné číslo projektu:** | 0206/2016 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 97 - Arménsko: 1, Brazília: 0, Kuba: 1, Česko: 3, Nemecko: 7, Dánsko: 1, Fínsko: 1, Francúzsko: 8, Veľká Británia: 1, Grécko: 0, Chorvátsko: 2, Maďarsko: 1, Švajčiarsko: 1, Čína: 2, India: 8, Taliansko: 13, Japonsko: 3, Kórejská republika: 4, Mexiko: 4, Holandsko: 2, Nórsko: 3, Peru: 1, Poľsko: 3, Portugalsko: 0, Rumunsko: 2, Rusko: 10, Švédsko: 1, Ukrajina: 1, USA: 12, JAR: 1 |
| **Čerpané financie:** | Ministerstvo školstva, vedy výskumu a športu Slovenskej republiky: 59000 € |

*Dosiahnuté výsledky:*   
ALICE Collaboration (KALIŇÁK Peter, KRÁLIK Ivan, KRIVDA Marián, MUŠINSKÝ Ján, ŠÁNDOR Ladislav), Multi-strange baryon production in p-Pb collisions at root(NN)-N-S=5.02 TeV, PHYSICS LETTERS B, Volume: 758, Pages: 389-401, DOI: 10.1016/j.physletb.2016.05.027, Published: 2016. (IF: 6.131)   
   
ALICE Collaboration (KALIŇÁK Peter, KRÁLIK Ivan, KRIVDA Marián, MUŠINSKÝ Ján, ŠÁNDOR Ladislav), (3)(Lambda)Hand (3)((Lambda)over-bar)(H)over-bar production in Pb-Pb collisions at root s(NN)=2.76 TeV, PHYSICS LETTERS B, Volume: 754, Pages: 360-372, DOI: 10.1016/j.physletb.2016.01.040, Published: 2016. (IF: 6.131)   
   
ALICE Collaboration (KALIŇÁK Peter, KRÁLIK Ivan, KRIVDA Marián, MUŠINSKÝ Ján, ŠÁNDOR Ladislav), Search for weakly decaying (Lambda n)over-bar and Lambda Lambda exotic bound states in central Pb-Pb collisions at root S-NN=2.76 TeV, PHYSICS LETTERS B, Volume: 752, Pages: 267-277, DOI: 10.1016/j.physletb.2015.11.048, Published: 2016. (IF: 6.131)   
   
ALICE Collaboration (KALIŇÁK Peter, KRÁLIK Ivan, KRIVDA Marián, MUŠINSKÝ Ján, ŠÁNDOR Ladislav), Centrality dependence of the nuclear modification factor of charged pions, kaons, and protons in Pb-Pb collisions at root s(NN)=2.76 TeV, PHYSICAL REVIEW C, Volume: 93, Issue: 3, Article number: 034913, DOI: 10.1103/PhysRevC.93.034913, Published: 2016. (IF: 3.733)   
   
ALICE Collaboration (KALIŇÁK Peter, KRÁLIK Ivan, KRIVDA Marián, MUŠINSKÝ Ján, ŠÁNDOR Ladislav), Measurement of transverse energy at midrapidity in Pb-Pb collisions at root s(NN)=2.76 TeV, PHYSICAL REVIEW C, Volume: 94, Issue: 3, Article number: 034903, DOI: 10.1103/PhysRevC.94.034903, Published: 2016. (IF: 3.733)   
   
**Programy: Multilaterálne - iné**

**17.) JEM-EUSO, Kozmické Observatórium Extrémneho Vesmíru na palube Japonského Experimentálneho Modulu** *(JEM-EUSO, Extreme Universe Space Observatory Onboard Japan Experiment Module)*

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| --- | --- |
| **Zodpovedný riešiteľ:** | Pavol Bobík |
| **Trvanie projektu:** | 1.1.2010 / 31.12.2017 |
| **Evidenčné číslo projektu:** | MVTS JEM-EUSO |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Univ. Tuebingen |
| **Počet spoluriešiteľských inštitúcií:** | 28 - Bulharsko: 1, Nemecko: 2, Alžírsko: 2, Španielsko: 2, Francúzsko: 2, Švajčiarsko: 2, Taliansko: 2, Japonsko: 2, Kórejská republika: 2, Mexiko: 2, Poľsko: 2, Rumunsko: 1, Rusko: 2, Slovensko: 1, Švédsko: 1, USA: 2 |
| **Čerpané financie:** |  |

*Dosiahnuté výsledky:*   
Aktivity slovenskej JEM-EUSO skupiny boli v roku 2016 sústredené najmä na vývoj modelu UV pozadia na nočnej strane Zeme a prípravu siete vlastných UV detektorov.   
   
V rámci vývoja modelu sme sa sústredili špeciálne na určenie a kvantifikáciu variácii intenzity airglow žiarenia tvoreného vrchnou vrstvou atmosféry. Analýza ukazuje na čo sa bude potrebné zamerať v merania prekurzor experimentov EUSO-SPB a MINI-EUSO budúci rok (2017).   
   
Pozemná sieť UV detektorov je určená na dlhodobé súvislé meranie UV pozadia. V priebehu uplynulého roka boli dokončené 4 detektory, ktoré budú začiatkom budúceho roka rozmiestnené na štyroch najmenej 1000 kilometrov od seba vzdialených pozíciách. S UV detektorom boli realizované kontrolné merania na Slovensku a v Utahu pri experimente Telescope Array.   
   
Publikačné výstupy:   
1. Fenu F., Piotrowski L. W., Shin H. Jung A., Bacholle S., Bisconti F., Capel F., Eser J., Kawasaki Y., Kuznetsov E., Larsson O., Mackovjak S., Miyamoto H., Plebaniak Z., Prevot G., Putis M., Shinozaki K., Adams J., Bertaina M., Bobik P., Casolino M., Matthews J. N., Ricci M., Wiencke L., Preliminary analysis of EUSO—TA data, Journal of Physics: Conference Series, Volume 718, Issue 5, article id. 052011, 05/2016   
   
2. Bobik P., Boschini M. J., Della Torre S., Gervasi M., Grandi D., La Vacca G., Pensotti S., Putis M., Rancoita P. G., Rozza D., Tacconi M., Zannoni M., On the forward-backward-in-time approach for Monte Carlo solution of Parker's transport equation: One-dimensional case, Journal of Geophysical Research: Space Physics, Volume 121, Issue 5, pp. 3920-3930, 2016, doi:10.1002/2015JA022237   
   
**Programy: Bilaterálne - iné**

**18.) Magnetické vlastnosti tetraboridov**  *(Magnetic properties of tetraborides)*

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| --- | --- |
| **Zodpovedný riešiteľ:** | Karol Flachbart |
| **Trvanie projektu:** | 0.0.0 / 31.12.2017 |
| **Evidenčné číslo projektu:** | DAAD - SAV - 57215995 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** |  |

*Dosiahnuté výsledky:*   
Boli zmerané anizotrópne vlastnosti TmB4 s cieľom realizovať rotačný magnetokalorický jav na tejto zlúčenine. Bol aplikovaný uniaxiálny tlak na TmB4 s cieľom narušiť geometrickú frustráciu magnetických momentov v tomto systéme. Výsledky sa vyhodnocujú.   
   
**19.) Účinok malých molekúl a nanočastíc na amyloidnú agregáciu poly/peptidov**  *(Effect of small molecules and nanoparticles on amyloid aggregation of poly/peptides)*

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| --- | --- |
| **Zodpovedný riešiteľ:** | Zuzana Gažová |
| **Trvanie projektu:** | 11.1.2016 / 31.12.2018 |
| **Evidenčné číslo projektu:** | SAS – MOST Joint Research Cooperation |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 1 - Taiwan: 1 |
| **Čerpané financie:** | SAS-MOST Taiwan: 24942 € |

*Dosiahnuté výsledky:*   
Zamerali sme sa na sledovanie účinku malých molekúl na amyloidnú agregáciu lyzozýmu. Pre heterodiméry tvorené takrínom a kumarínom sme sledovali ich schopnosť ovplyvniť fibrilizáciu lyzozýmu ako aj deštruovať amyloidné fibrily pomocou spektroskopických a mikroskopických techník. Ukázali sme, že anti-amyloidná aktivita je výrazne podmienená vlastnosťami linkera spájajúceho heterodimérnu molekulu. Najlepšia aktivita bola detegovaná pre deriváty patriace do prvej skupiny, kde linker obsahoval dve NH skupiny. V podstate žiadna aktivita nebola pozorovaná pre heterodiméry patriace do tretej skupiny, kde linker obsahuje dve NH skupiny spolu s naviazaným kyslíkom. Partneri na taiwanskom pracovisku použitím in silico techník vypočítali väzobné konštanty a určili väzobné miesta študovaných heterodimérov k molekule lyzozýmu ako aj ku lyzozýmovým fibrilám. Rozdielny účinok heterodimérov bol potvrdený pomocou atómovej silovej mikroskopie (AFM), ktorá ukázala, že v prítomnosti heterodimérov prvej skupiny je množstvo agregátov podstatne nižšie v porovnaní s množstvom fibríl tvorených samotným lyzozýmom.   
Študovali sme interferenciu magnetitových nanočastíc obalených dextránom s amyloidnou agregáciou lyzozýmu, pričom dextrán bol modifkovaný tak, aby bola dosiahnutý rôzny náboj na povrchu nanočastíc (kladný, záporný a neutrálny). Okrem toho sme charakterizovali veľkosť a zeta potenciál magnetitových nanočastíc pomocou rozptylu svetla a mikroskopických techník. Na základe spektrálnych meraní sme ukázali, že nanočastice interagujú s lyzozýmom, čo má za následok redukciu tvorby amyloidných štruktúr. Rozsah inhibície závisela od fyzikálno-chemických vlastností nanočastíc, ktoré boli vo veľkej miere podmienené nábojom na dextráne.   
   
1. Zuzana Bednarikova, Eva Bystrenova, Mai Suan Li, Maria-Magdalena Mocanu, Steven S.-S.Wang, Rui Wang, Zuzana Gazova: AFM study of amyloid self-assembly. Book of Abstract StSPM´meeting 16, 20. – 21.10 .2016 Bologna, Italy, p. 34.   
2. Z. Gazova, Z. Bednarikova, E. Demejn, S. Dutz, M.-M. Mocanu, P. Kopcansky, K. Ulicna: Inhibition of amyloid aggregation of lysozyme by application of magnetic nanoparticles coated with different types of dextran. Book of Abstract, 11th international conferenceon the Scientific and Clinical Applications of Magnetic Carriers, Vancouver, Canada, May 31 – June 4, 2016, P29.   
   
   
**20.) Využitie multitargetových nízkomolekulových látok z tradičných čínskych bylín pri liečbe Alzheimerovej choroby**  *(The multitarget low molecular compounds from traditional Chinese herbs in treatment of Alzheimer´s disease)*

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| **Zodpovedný riešiteľ:** | Zuzana Gažová |
| **Trvanie projektu:** | 1.1.2016 / 31.12.2017 |
| **Evidenčné číslo projektu:** | SK-CN-2015-0023 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 1 - Čína: 1 |
| **Čerpané financie:** | Podpora medzinárodnej spolupráce z národných zdrojov: 4000 € |

*Dosiahnuté výsledky:*   
Sledovali sme účinok nízkomolekulových látok izolovaných z tradičných čínskych bylín na amyloidnú agregáciu Abeta peptidu, ktorý vytvára cytotoxické amyloidné plaky v mozgu ľudí trpiacich na Alzheimerovu chorobu. Morfológia amyloidných agregátov vytvorených samostatne alebo v prítomnosti malých molekúl bola charakterizovaná pomocou atómovej silovej mikroskopie.   
   
Zuzana Bednarikova, Eva Bystrenova, Mai Suan Li, Maria-Magdalena Mocanu, Steven S.-S.Wang, Rui Wang, Zuzana Gazova: AFM study of amyloid self-assembly, Book of abstract StSPM´meeting 16, 20. – 21.10 .2016 Bologna, Italy, p. 34   
   
**21.) Magnetické vlastnosti anizotrópnych kompozitnych systémov** *(Magnetic properties of anisotropic composite nanosystems)*

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| **Zodpovedný riešiteľ:** | Natália Tomašovičová |
| **Trvanie projektu:** | 1.1.2015 / 31.12.2016 |
| **Evidenčné číslo projektu:** | APVV SK-HU-2013-0009 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** |  |

*Dosiahnuté výsledky:*   
Štúdium magnetických vlastností feronematika na báze kvapalného kryštálu 6CB bolo zamerané na meranie teplotnej závislosti ac magnetickej susceptibility, hlavne v oblasti štruktúrneho fázového prechodu z izotrópnej do nematickej fázy a naopak. Ukázalo sa, že aplikovanie slabého dc magnetického poľa (rádovo jednotky Oe) v izotropnej fáza, vedie k výraznému zvýšeniu ac susceptibility. Prechod z izotrópnej do nematickej fázy resetuje toto zvýšenie a jej hodnota zostáva konštantná až pokiaľ opäť nie je aplikované dc magnetické pole v izotropnej fáze. Aplikovanie dc magnetického poľa v nematickej fáze hodnotu ac susceptibility neovplyvňuje (Tomašovičová et al., Soft Matter 2016). Tieto výsledky poukazujú na možnosť využitia feronematík ako kvapalných senzorov malých magnetických polí. Je to nový, doteraz neštudovaný jav.   
   
1.N.Tomašovičová, J. Kováč, Y. Raikher, N. Éber, T. Tóth-Katona, V. Gdovinová, J. Jadzyn, R. Pinčák, P. Kopčanský, Biasing a ferronematic – a new way to detect weak magnetic field, Soft Matter 12 (2016) 5780-5786, DOI: 10.1039/c6sm00354k   
   
Akceptované:   
   
2.V. Gdovinová, N. Tomašovičová, N. Éber, P. Salamon, T. Tóth-Katona, V. Závišová, J. Jadzyn and P. Kopčanský, Ferronematics based on the 6CB nematic in combined electric and magnetic fields, Phase Transitions   
   
3.V. Gdovinová, N. Tomašovičová, V. Závišová, N. Éber, T. Tóth-Katona, F. Royer, D. Jamon, J. Jadzyn, and P. Kopčanský, Low Magnetic Field Response in Ferronematics, Acta Physica Polonica A   
   
4.K. Csach, A. Juríková, J. Miškuf, N. Tomašovičová, V. Gdovinová, V. Závišová, P. Kopčanský, N. Éber, K. Fodor-Csorba and A. Vajda: Kinetics of nematic to isotropic phase transition in liquid crystal doped with magnetic nanoparticles, Acta Physica Polonica A   
   
5.J. Majorošová, V. Gdovinová, N.Tomašovičová, A. Juríková, V. Závišová, J. Jadzyn, P. Kopčanský: The influence of magnetic particles on the nematic droplets formation in liquid crystal, Acta Physica Polonica A   
   
   
   
   
**22.) Magnetické nanokompozity pre biomedicínu**  *(Magnetic nanocomposites for biomedical application)*

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| --- | --- |
| **Zodpovedný riešiteľ:** | Mária Zentková |
| **Trvanie projektu:** | 1.1.2015 / 31.12.2016 |
| **Evidenčné číslo projektu:** | SK-SRB-2013-0050 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 2 - Srbsko: 2 |
| **Čerpané financie:** |  |

*Dosiahnuté výsledky:*   
1.M.Vavra, M. Zentkova, M.Mihalik, M.Mihalik jr., J.Lazurová, V. Girman, M.Perovic, V.Kusigerski, P.Roupcova, Z. Jaglicic: Exchange bias effect in NdFeO3 system of nanoparticles, Book of Abstracts, 16th Czech and Slovak   
Conference on Magnetism, June 13 – 17, 2016, Košice, Slovakia, page 194   
   
2.M. Kovalik, M. Zentkova, M. Mihalik, M. Mihalik jr., M.Vavra, V. Girman, J. Briančin, J.Blanusa: CHARACTERIZATION AND MAGNETIC PROPERTIES OF La0.85Ag0.15MnO3+? in PROCEEDINGS of 22nd CONFERENCE OF SLOVAK PHYSICISTS, Editors: A. Džubinská, M. Reiffers , Kosice, EQUILIBRIA, s.r.o., Košice 2016 , ISBN 978-80-89855-01-8, page 101   
   
   
   
   
   
**Programy: ERANET**

**23.) Magneticky aktívne anizotrópne kompozitne systémy** *(Magnetically active anisotropic composite systems)*

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| **Zodpovedný riešiteľ:** | Peter Kopčanský |
| **Trvanie projektu:** | 1.9.2013 / 31.8.2016 |
| **Evidenčné číslo projektu:** |  |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 9 - Maďarsko: 5, Taiwan: 4 |
| **Čerpané financie:** |  |

*Dosiahnuté výsledky:*   
WP1: Ukončené 31.12.2015   
   
WP2: Boli pripravené feronematiká na báze termotropných kvapalných kryštálov 6CB ako aj zmes kalamitického a bananového kvapalného kryštálu, ktoré boli dopované sférickými magnetickými nanočasticami. Cieľom bolo zvýšiť citlivosť týchto kompozitov na vonkajšie magnetické pole. Pripravené kompozity boli charakterizované pomocou DSC a polarizačného mikroskopu a pomocou SQUID magnetometra. Taktiež boli pripravené lyotropné feronematika na báze fibril lyzozymu s rôznymi koncentráciami magnetických nanočastíc.   
   
WP3: Štúdium magnetických vlastnosti feronematických vzoriek obsahujúcich sférické magnetické nanočastice ukázalo, že ak v izotrópnej fáze aplikujeme malé dc magnetické pole (rádovo niekoľko Oe), dochádza k výraznej modifikácii magnetickej susceptibility feronematika. Fázový prechod z izotrópnej do nematickej fázy resetuje magnetickú susceptiilitu na jej pôvodnú hodnotu. Následným aplikovaním dc magnetického poľa môžeme opäť magnetickú susceptibilitu modifikovať. Tento efekt je spojený s prítomnosťou magnetických častíc a nie je pozorovaný pre nedopované kvapalné kryštály.   
Vplyv magnetického poľa na teplotu prechodu z izotrópnej do nematickej fázy bol študovaný pre dve rôzne orientácie magnetického poľa na vzorkách: nedopované banánovité, tyčinkovité kvapalné kryštály, ich zmesi a vo vzorkách, ktoré boli dopované sférickými nanočasticami. Záporný alebo kladný posun v prechodovej teplote z izotrópnej do nematickej fázy bol pozorovaný v závislosti na orientácii magnetického poľa.   
Adsorpcia magnetických nanočastíc z elektrostaticky stabilizovanej vodnej ferokvapaliny na amyloidné fibrily z vaječného bielka (HEWL) kyslej disperzii bola detekovaná pre koncentráciu magnetických nanočastíc v rozsahu od 0.01-0.1 ich objemovej koncentrácie. Takáto zmes magnetických nanočastíc s amyloidnými fibrilami bola charakterizovaná transmisným elektronovým mikroskopom (TEM), malo-uhlovým rozptylom X-ray lúčov (SAXS) a magneto-optickými meraniami. Bolo pozorované, že rozsah absorpcie závisí od koncentrácie magnetických nanočastíc. Adsorpcia bola študovaná s cieľom objasniť disagregačnú aktivitu magnetických nanočastíc v amyloidných fibrilách, Tento efekt bol pozorovaný už skôr a je potrebné objasniť interakčný process medzi magnetickými nanočasticami a amyloidnými fibrilami. Pozorované formovanie špecifických agregátov z nanočastíc v študovanej zmesi, umožňuje považovať lyzozýmové amyloidné fibrily ako základ pre výrobu rôznych nanomateriálov, ktoré sú citlivé na externé magnetické pole.   
WP4: V hľadaní fotosenzitívnych kvapalno- kryštalických zmesí, ktoré by boli vhodné pre polymerizáciu bola syntetizovaná nová séria azo- obsahujúcich banánovitých kvapalných kryštálov, ktoré boli odvodené z kyseliny 3-hydroxybenzoovej. Ich mezomorfné vlastnosti boli charakterizované polarizačným optickým mikroskopom, diferenčnou skenovacou kalorimetriou, malo uhlovou X- ray difrakciou a elektro- optickými metodikami. Takmer všetky zlúčeniny formovali enantiotropicky modulovanú smektrickú (B7 typ) fázu cez relatívne široký teplotný rozsah. Štruktúrne modifikácie ako typ a dĺžka koncového reťazca či prítomnosť Cl substituenta v rôznych pozíciách lomeného jadra, ovplyvňuje teplotný rozsah ale nie typ mezofázy skúmanej zlúčeniny. Boli pozorované zmeny indukované svetlom v textúre a fázovom prechode mezofázy, čo prispievalo k zníženiu parametra usporiadania vďaka trans-cis izomerácii. Nasledovné vlastnosti zlúčenín ako relatívne vysoká teplota mezomorfnej fázy ale aj objavenie modulovanej smektickej fázy (namiesto nematickej fázy) ich predurčujú ako menej vhodné na prvotné ciele projektu. Boli vytvorené fotosenzitívne monodoménové a polydoménové kvapalno- kryštalické elastoméry. Fyzikálna charakterizácia týchto elastomérov (potenciálne aplikovateľné pre výrobu laditeľných difrakčných mriežok) sa momentálne vykonávajú. Prvé výsledky boli prezentované nedávno na 8. Medzinárodnej konferencii kvapalných kryštálov a elastomérov.   
   
WP5: Eexistencia a šírenie sa svetelných pulzov v médiu kvapalných kryštálov s magnetickými nanočasticami boli použité rovnice pre jedno a dvoj-rozmerných prípad. Bola skúmaná možnosť kontroly parametrov týchto pulzov, a ukázalo sa že sú v oboch prípadoch stabilné. Okrem možnosti ovládania svetelných pulzov pomocou rozličných polarizácií magnetickým poľom, využitie kvapalno-kryštalického média umožňuje ovplyvniť ich tvar ako aj použiť tieto objekty na generovanie po sebe idúcich optických pulzov. Tieto vlastnosti sú veľmi významné pre spektroskopické aplikácie. Priestorovo nehomogénne usporiadanie ako aj možnosť šírenia magnetizačných vĺn môže vzniknúť v dôsledku interakcií medzi magnetickými nanočasticami. Tieto otázky budú riešené v našich budúcich štúdiách.   
   
N.Tomašovičová, J. Kováč, Y. Raikher, N. Éber, T. Tóth-Katona, V. Gdovinová, J. Jadzyn, R. Pinčák, P. Kopčanský, Biasing a ferronematic – a new way to detect weak magnetic field, Soft Matter 12 (2016) 5780-5786, DOI: 10.1039/c6sm00354k   
   
Jozefina Majorosova, Viktor I. Petrenko, Katarina Siposova, Milan Timko, Natalia Tomasovicova, Vasil M. Garamus, Marceli Koralewski, Mikhail V. Avdeev,Błazej Leszczynski, Stefan Jurga, Zuzana Gazova, Shura Hayryan, Chin-Kun Hu,Peter Kopcansky, On the adsorption of magnetite nanoparticles on lysozyme amyloidfibrils, Colloids and Surfaces B: Biointerfaces 146 (2016) 794–800   
   
Veronika Gdovinová, NatáliaTomašovičová, Ivan Batko, Marianna Batková, Lucia Balejčíková, Vasyl M.Garamus, Viktor I.Petrenko, Mikhail V.Avdeev, Peter Kopčanský, Interaction of magnetic nanoparticles with lysozyme amyloid fibrils, Journal of Magnetism and Magnetic Materials http://dx.doi.org/10.1016/j.jmmm.2016.09.035   
   
   
Prijaté:   
N. Tomašovičová, C.-W. Yang, L. Balejčíková, V. Gdovinová, M. Kubovčíková, S. Hayryan, I.-S. Hwang, Chin-Kun Hu, and P. Kopčanský, Interaction of Magnetic Nanoparticles with Lyotropic Liquid Crystal Studied by AFM, Acta Physica Polonica A   
   
J. Majorošová, V. Gdovinová, N. Tomašovičová, A. Juríková, V. Závišová, J. Jadzyn, P.Kopčanský, The influence of magnetic particles on the shape of droplets of liquid crystal, Acta Physica Polonica A   
   
   
M. Jeníková, K. Zakuťanská, J.Kováč, V. Girman, P. Kopčanský and N. Tomašovičová, Characterization of carbon nanotubes, Acta Physica Polonica A   
   
   
V. Gdovinová, N. Tomašovičová, V. Závišová, N. Éber, T. Tóth-Katona, F. Royer, D. Jamon, J. Jadzyn, and P. Kopčanský, Low Magnetic Field Response in Ferronematics, Acta Physica Polonica A   
   
A. Mahmood, V. Kavungal, S. S. Ahmed, P. Kopcansky, V. Zavisova, G. Farrell and Y. Semenova, Magnetic field sensing using whispering-gallery modes in a cylindrical microresonator infiltrated with ferronematic liquid crystal, Optics Exspres   
   
V. Gdovinová, N. Tomašovičová, N. Éberb, P. Salamon, T. Tóth-Katona, V. Závišová, J. Jadzyn, P. Kopčanský, Ferronematics based on the 6CB nematic in combined electric and magnetic fields, Phase transitions   
   
   
Czech and Slovak Conference on Magnetizm, 13.-17.6. 2016, Košice, Slovakia   
V. Gdovinova, N. Tomasovicova, V. Zavisova, N. Eber, T. Toth-Katona, F. Royer, D. Jamon, J. Jadzyn and P. Kopcansky: Low magnetic field response in ferronematics – poster P5-14   
K. Csach, A. Juríková, J. Miškuf, N. Tomašovičová, V. Gdovinová, V. Závišová, P. Kopčanský, N. Éber, K. Fodor-Csorba and A. Vajda: Kinetics of nematic to isotropic phase transition in liquid crystal doped with magnetic nanoparticles – poster P5-19   
M. Jeníková, K. Zakuťanská, J. Kováč, V. Girman, P. Kopčanský, N. Tomašovičová: Characterization of carbon nanotubes - poster P2-20   
J. Majorošová, V. Gdovinová, N.Tomašovičová, A. Juríková, V. Závišová, J. Jadzyn, P. Kopčanský: The influence of magnetic particles on the nematic droplets formation in liquid crystal -poster P5-21   
N. Tomašovičová, C.-W. Yang, L. Balejčíková, V. Gdovinová, M. Kubovčíková, S. Haayryan, C.-K. Hu, P. Kopčanský, Interaction of magnetic nanoparticles with lyotropic liquid crystal studied by AFM – poster P5-23   
N. Tomašovičová, I. Khmara, M. Koneracká, V. Závišová, M. Kubovčíková, J. Kováč, M. Múčková, P. Kopčanský: Elimination of magnetic nanoparticles with various surface modifications from the bloodstream in vivo, - poster P9-29   
International Conference on Magnetic Fluids, 4.-8.7. 2016, Ekaterinburg, Russia   
P.Kopčanský: Ferronematics – way to liquid crystaline senzors of magnetic field – oral presentation: PP-PL-1   
N.Tomašovičová: Effect of magnetic nanoparticles on the liquid crystalline ordering of amyloid fibrils – oral presentation: PP-OP-4   
V. Gdovinova, N. Tomasovicova, V. Zavisova, N. Eber, T. Toth-Katona, J. Jadzyn, P. Kopcansky Macroscopic dielectric effect in ferronematics – poster PP-PS1-8   
Conference on Liquid Crystals, 18.-23.9.2016, Krynica-Zdroj, Poland   
P.Kopčanský: Liquid crystal doped by magnetic fluids – invited lecture   
   
   
   
**Programy: European Space Agency (ESA)**

**24.) Štúdia vykonateľnosti pre pozorovania ionosférických narušení jednopixelovým UV detektorom** *(Feasibility study to observe ionospheric disturbances by one pixel UV detector)*

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| --- | --- |
| **Zodpovedný riešiteľ:** | Pavol Bobík |
| **Trvanie projektu:** | 1.6.2016 / 31.10.2017 |
| **Evidenčné číslo projektu:** | 4000117740 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** |  |

*Dosiahnuté výsledky:*   
V roku 2016 bol riešený Work Package 2 projektu s názvom "Airglow study – time and space dynamic of airglow production". Riešenie Work Package 3 "Radiation transfer models review" začalo v decembri 2016.   
   
**Projekty národných agentúr**

**Programy: VEGA**

**1.) Satelitné detektory pre kozmofyzikálny výskum** *(Satellite detectors for space physics research)*

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| --- | --- |
| **Zodpovedný riešiteľ:** | Ján Baláž |
| **Trvanie projektu:** | 1.1.2016 / 31.12.2018 |
| **Evidenčné číslo projektu:** | VEGA 2-0077-16 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA: 4885 € |

*Dosiahnuté výsledky:*   
Bol realizovaný vývoj ultrafialového fotometra AMON-2 a praktická realizácia štyroch kusov tohto fotometra pre súčasné mnoho-bodové meranie žiarenia atmosféry (airglow) na viacerých miestach zemského povrchu.   
Bol aktualizovaný design detektora energetických častíc ASPECT-L pre misiu Luna-Globe. Boli skonštruované mechanické časti elektronického boxu tohto prístroja. Pokračujú práce na vývoji anti-koincidenčného detektora pre plazmový komplex PEP misie ESA-Juice k mesiacom Jupitera.   
   
MCKENNA-LAWLOR, Susan - RUSZNYAK, Peter - BALÁŽ, Ján - SCHMIDT, Walter - FANTINATI, Cinzia - KUECHEMANN, Oliver - GEURTS, Koen. Performance of the mission critical Electrical Support System (ESS) which handled communications and data transfer between the Rosetta Orbiter and its Lander Philae while en route to and at comet 67P/Churyumov-Gerasimenko. In Acta Astronautica, 2016, vol. 125, p. 118-136.   
   
Lu Li, S. McKenna-Lawlor, Jin Bin Cao, K. Kudela, and J. Baláž, The causal sequence investigation of the ring current ion-flux increasing and the magnetotail ion injection during a major storm, Science China Earth Sciences, January 2016 Vol.59 No.1: 129–144, doi: 10.1007/s11430-015-5121-7   
   
**2.) Tenké vrstvy a tenkovrstvové štruktúry pre senzorické a memristívne aplikácie** *(Thin films and thin film structures for sensoric and memristive applications)*

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| --- | --- |
| **Zodpovedný riešiteľ:** | Marianna Baťková |
| **Trvanie projektu:** | 1.1.2013 / 31.12.2016 |
| **Evidenčné číslo projektu:** | 2/0184/13 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** |  |

*Dosiahnuté výsledky:*   
Štúdium Nb/NbOx/Nb štruktúr pripravených lokálnou anodickou oxidáciou (LAO) preukázalo ich memristívne správanie a odhalilo relatívne vyššiu difúznu rýchlosť kyslíkových vakancií v NbOx bariére pri porovnaní s difúznou rýchlosťou vakancií v TiOx bariére štruktúr Ti/TiOx/Ti pripravených podobným technologickým procesom [1]. Okrem toho boli pripravené Ti/TiOx/Ti štruktúry vykazujúce elektrické charakteristiky nezávislé na magnetickom poli avšak citlivé na zmeny teploty, čo indikuje ich sľubné aplikačné využitie ako teplotných senzorov pre kryogénnu oblasť a vysoké magnetické polia [2].   
   
[1] BAŤKO, Ivan - BAŤKOVÁ, Marianna. Memristive Behavior of Nb/NbOx/Nb Structures Prepared by Local Anodic Oxidation. In Materials Today: Proceedings, 2016, vol. 3, p. 803-809. ISSN 2214-7853. Typ: ADMB   
   
[2] BAŤKOVÁ, Marianna - BAŤKO, Ivan. Electrical conduction of Ti/TiOx/Ti structures at low temperatures and high magnetic fields. In European Physical Journal - Applied Physics, 2016, vol. 73, no. 3, art. no. 30301. (0.667 - IF2015). (2016 - Current Contents, WOS, SCOPUS). ISSN 1286-0042. Typ: ADCA   
   
**3.) Mechanické vlastnosti a stabilita amorfných zliatin a nanorozmerných sústav** *(Mechanical properties and stability of amorphous alloys and nanosized systems)*

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| **Zodpovedný riešiteľ:** | Kornel Csach |
| **Trvanie projektu:** | 1.1.2014 / 31.12.2017 |
| **Evidenčné číslo projektu:** | 2/0045/14 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** |  |

*Dosiahnuté výsledky:*   
Meranie uvoľneného tepla spojeného s denzifikáciou prebiehajúcou počas štruktúrnej relaxácie ukázalo na lineárnu závislosť medzi zmenou objemu a uvoľňovaním tepla. Bolo ukázané že uvedenú súvislosť je možné popísať v rámci relaxácie inesticiálnych defektov pochádzajúcich z taveniny.   
   
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**4.) Magnetoelektrický a magnetokalorický jav v exaktne riešiteľných mriežkovo-štatistických modeloch**  *(Magnetoelectric and magnetocaloric effect in exactly solvable lattice-statistical models)*

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| **Zodpovedný riešiteľ:** | Hana Čenčariková |
| **Trvanie projektu:** | 1.1.2016 / 31.12.2019 |
| **Evidenčné číslo projektu:** | 1/0043/16 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Prírodovedecká fakulta UPJŠ, Košice |
| **Počet spoluriešiteľských inštitúcií:** | 2 - Slovensko: 2 |
| **Čerpané financie:** | VEGA: 2217 € |

*Dosiahnuté výsledky:*   
1. Raphael C. Alécio, Marcelo L. Lyra, Jozef Strečka, Journal of Magnetism and Magnetic Materials 417 (2016) 294–301.   
2. Jozef Strečka, Raphael C. Alécio, Marcelo L. Lyra, Onofre Rojas, Journal of Magnetism and Magnetic Materials 409 (2016) 124–133.   
3. Jozef Strečka and Jana Čisárová,Mater. Res. Express 3 (2016) 106103.   
4. Bohdan Lisnyi, Jozef Strečka, Physica A 462 (2016) 104–116.   
5. Katarína Karľová, Jozef Strečka, Tomáš Madaras, Physica B 488 (2016) 49–56.   
6. Taras Verkholyak and Jozef Strečka, PHYSICAL REVIEW B 94, 144410 (2016).   
7. H. Čenčariková, J. Strečka, M. L. Lyra,Journal of Magnetism and Magnetic Materials 401 (2016) 1106.   
   
**5.) Vývoj a implementácia algoritmov a metód na štúdium vláknitých objektov použitím spracovania obrazu a matematického modelovania** *(Development and implementation of algorithms and methods for the study of fiber like objects using image processing and mathematical modeling )*

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| **Zodpovedný riešiteľ:** | Erna Demjén |
| **Trvanie projektu:** | 1.1.2014 / 31.12.2016 |
| **Evidenčné číslo projektu:** | 2/0175/14 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** |  |

*Dosiahnuté výsledky:*   
Bol navrhnutý parametrický model povrchu monomérov ako základných jednotiek fibríl a implementovaný do nami vytvoreného softvérového prostredia na simuláciu ich distribúcie. Takto vytvorené umelé obrázky AFM boli spracované metódami korelačnej analýzy s cieľom získať distrubčné funkcie ich veľkosti a polohy. Ďalej, boli implementované a použité metódy na ohodnotenie morfológie vlákien lyzozymových fibríl zo snímkov AFM.   
[1] Z. Bednarikova, E. Demjen, S. Dutz, M. M. Mocanu, K. Ulicna, P. Kopcansky, Z. Gazova, Ability of nanoparticles coated with different types of dextran to inhibit amyloid aggregation of lysozyme, 7th Slovak Biophysical Symposium, Novy Smokovec, April 6-8, 2016, PO13   
[2] D. Fedunova, Z. Bednarikova, E. Demjen, J. Marek, D. Sedlakova, Z. Gazova, Destabilization and fibrillization of proteins in ionic liquids – anion vs. cation role, 7th Slovak Biophysical Symposium, Novy Smokovec, April 6-8, 2016, PO14   
   
**6.) Supravodivá a magnetokalorická keramika** *(Superconducting and magnetocaloric ceramics)*

|  |  |
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| **Zodpovedný riešiteľ:** | Pavel Diko |
| **Trvanie projektu:** | 1.1.2016 / 31.12.2018 |
| **Evidenčné číslo projektu:** | VEGA 2/0121/16 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 5 - Veľká Británia: 1, Čína: 1, Japonsko: 2, Kórejská republika: 1 |
| **Čerpané financie:** | VEGA: 18981 € |

*Dosiahnuté výsledky:*   
D. Volochová, V. Antal, S. Piovarči, J. Kováč, M. Jirsa, J.G. Noudem, P. Diko, Microstructure and Superconducting Properties of YBCO Bulk Superconductors with RE Substitutions. In IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY 26 (2016) 7200604, IF 1.092   
   
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M. Radušovska, D. Volochová, V. Antal, P. Diko, Growth parameters in Y123-Y211-CeO2 system, In IEEE Transactions on Applied Superconductivity 2016 vol. 26 p. 1-4, IF 1.092   
   
M. Radušovská, D. Volochová, V. Antal, S. Piovarči, P. Diko, Growth conditions and properties of Y123/Y211 and Y123/Y2O3 bulks. Journal of Physics: Conference Series. - vol. 695, issue 1, 17. March 2016. ISSN 17426588.   
   
L. Vojtkova, P. Diko and D. Volochová, Melting of SmBa2Cu3O7-y-seeds during preparation of YBCO Bulk Superconductors by Infiltration Growth Method. Journal of Physics: Conference Series 695 (2016) 012011   
   
K. Kasuga, M. Muralidhar, P. Diko, M. Jirsa, K. Inoue, M. Murakami, SEM and SEM by EDX Analysis of Air Processed SmBa2Cu3Oy, Physics Procedia, Volume 81, 2016, Pages 41-44 IF 0.566   
   
M. Muralidhar, T. Hanai, K. Furutani, P. Diko, M. Jirsa and M. Murakami, Processing and Characterization of Bulk FeSe, Journal of Electrical Engineering 4 (2016) 109-115   
   
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R. Verbová, V. Kavečanský, P. Diko, S. Piovarči, Study of synthesis and crystal stucture of barium cerate at high temperatures, 16th International Symposium on Metallography – Metallography'16, 20. - 22. apríl 2016, Stará Lesná, Vysoké Tatry, (Abstract book page 119)   
   
L. Vojtkova, P. Diko, Microstructure of YBCO Bulk Superconductors Fabricated by Infiltration Growght Process. 16th International Symposium on Metallography and Materials Science, Metallography'16, Stará Lesná, High Tatra Mountains Poprad SLOVAK REPUBLIC 20 – 22th April 2016, Abstract booklet, p. 121   
   
K. Zmorayova, P. Diko, J.G. Noudem, Microstructure Characterization of La-Ca-Sr-Mn-O Magnetocaloric Ceramics Prepared by Spark Plasma Sintering Method, 16th International Symposium on Metallography – Metallography'16, 20. - 22. apríl 2016, Stará Lesná, Vysoké Tatry, (Abstract book page 118)   
   
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K. Zmorayova, V. Antal, J. Kovac, P. Diko, J.G. Noudem, Influence of Spark Plasma Sintering on Microstructure and Properties of bulk LaCaSrMnO Magnetocaloric Materials, CSMAG'16, 16th Czech and Slovak Conference on Magnetism, CSMAG, June 13. – 17, 2016, Košice, Slovakia. (Abstract book page 159).   
   
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M. Jirsa, D. Volochová, J. Kováč, P. Diko. Clean Bulk YBaCuO Superconductors Doped by Paramegnetic Ions of Sm and Yb. In 16th Czech and Slovak Conference on Magnetism, Book of Abstracts, June 13 – 17, 2016, Košice, Slovakia. 2016, P7-08, s. 271. ISBN 978-80-971450-9-5.   
   
   
   
   
**7.) Štúdium stability a agregácie natívne rozbalených proteínov** *(Study of the intrinsically disordered protein stability and aggregation)*

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| **Zodpovedný riešiteľ:** | Diana Fedunová |
| **Trvanie projektu:** | 1.1.2014 / 31.12.2017 |
| **Evidenčné číslo projektu:** | 2/0176/14 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** |  |

*Dosiahnuté výsledky:*   
Študovali sme vplyv organických solí na stabilitu a agregáciu proteínov. Efektívitu solí pri vplyve na stabilitu proteínov je možné čiastočne predpokladať na základe pozície iónu v Hofmeiesterovej sérii, pričom vplyv aniónov je výraznejší než katiónov. Pozícia iónov v sérii nie je pevne definovaná, môže sa prípad od prípadu mierne odlišovať, ako sme pozorovali v prípade komplexných organických solí. Zistili sme, ze stabilita lyzozýmu klesá v poradí (od najstabilnejšieho) hydrogensulfát > chlorid > acetát, čo predstavuje reverznú Hofmeisterovu sériu. Tento efekt nezávisel od použitého katiónu (butyl- a etylmidazol). Proces tepelnej denaturácie bol 2jstavový (s pomerom entalpií okolo 1) a vratný, s výnimkom hyhdrogensulfátu (60% reverzibilita). Hydrogensulfát je chaotrópny anión, vo vode môže disociovať na sulfátový anión s vyššou náboíjovou hustotou čo môže byť zodpovedný za stabilizačný efekt.   
Obidve soli s hudrogensulfátovým aniónom mali atypický vplyv aj na tvorbu amyloidných fibríl lyzozýmu. Napriek tomu, že hydrogensulfát indukoval vznik vysokého obsahu beta-skladaných listov v štruktúre proteínu, nedochádzalo k tvorbe amyloidných fibríl, boli detekované iba rozmerné amorfné agregáty. Kineticky odlišný priebeh bol stanovený pre iný chaotópny anión - tetrafluoroborát, ktorý podporoval tvorbu amyloidných fibríl. Ostatné soli, s neutrálnym (chlorid) ako aj kozmotrópnym (acetát) aniónom boli schopné indukovať tvorbu fibríl v podmienkach, pri ktorých bez prítomnosti solí žiadne fibrily nevznikajú. Na základe týchto výsledkov sme stanovili vhodné podmienky destabilizujúce natívny stav lyzozýmu a podporujúce vznik polymorfných amyloidných fibríl.   
   
1. Fedunova D., Bednarikova Z., Demjen E., Marek J.,Sedlakova D., Gazova Z.: Destabilization and fibrillization of proteins in ionic liquids – anion vs. cation role. 7th Slovak Biophysical Symposium, April 6 – 8, 2016, Nový Smokovec, Slovakia, Book of contributions, pp. 77-78   
   
2. Bednarikova, Z., Huy P. D. Q., Mocanu, M. M., Fedunova D., Li M. S., Gazova Z. Fullerenol C60(OH)16 prevents amyloid fibrillization of Ab40 – in vitro and in silico approach. Phys Chem Chem Phys (2016), 18, 18855 - 18867.   
   
3. Fedunova D., Bednarikova, Z; Huy, PDQ ; Fedunova, D; Li, MS; Gazova, Z: Inhibiting activity of fullerenol C60(OH)16 on Abeta1-40 amyloid aggregation - in vitro and in silico study. COST - 2nd NGP – NET Symposium, 15.9.-17.9,2016 Belgrade, T15   
   
   
   
   
**8.) Vplyv extrémnych podmienok na silne korelované elektrónové systémy.** *(Influence of extreme conditions on strongly correlated electron systems)*

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| **Zodpovedný riešiteľ:** | Slavomír Gabáni |
| **Trvanie projektu:** | 1.7.2016 / 31.12.2019 |
| **Evidenčné číslo projektu:** | 2/0032/16 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA: 10612 € |

*Dosiahnuté výsledky:*   
SmB6 je ťažkofermiónový polovodič s úzkym zakázaným pásom v okolí Fermiho hladiny, najnovšie označovaný ako prvý 3D topologický Kondov izolátor, teda silne korelovaný elektrónový systém vykazujúci topologické povrchové vodivostné stavy zodpovedné za zvyškovú vodivosť. Naše štúdium vplyvu substitúcie zmiešanovalenčného iónu samária Sm2,5+ iónmi La3+, Eu2+, Yb2+, Sr2+ či vakanciami na SmB6 meraním elektrického magnetotransportu [1] spolu so štúdiom vplyvu vysokého tlaku na SmB6 meraním 11B-JMR do 9 GPa [2] po prvýkrát poukázalo na komplexné správanie sa veľkosti hybridizačnej medzery a pásovej štruktúry v okolí tejto medzery so zmenou koncentrácie substituentov a tlaku. Ďalej sa náš výskum zaoberal potlačením supravodivosti v systéme Lu(x)Zr(1-x)B12 vplyvom vzniku spinovo-polarizovaných magnetických nanodomén v okolí nemagnetického iónu Lu3+ [3]. Štúdium vplyvu magnetického poľa a teploty na fázový diagram feromagnetu Mn(1-x)Fe(x)Si so špirálovým usporiadaním spinov poukázalo najmä na existenciu novej spinovo-polarizovanej (feromagnetickej) fázy pri veľmi nízkych teplotách pod 0.6 K [4]. Detailné meranie a analýza elektrického transportu zriedeného 3D frustrovaného antiferomagnatika Ho(0,5)Lu(0,5)B12 (TN = 3.4 K) v širokom intervale teplôt (1.9-100 K), magnetických polí (0-80 kOe) a kryštalografických orientácií (0-360°) poukázalo na rôzne režimy transportu elektrického náboja nad a pod izosbestickým bodom (Tiso = 8.8 K), v ktorom sa mení znamienko magnetorezistivity pre všetky polia [5]. Zavedením novej metódy merania ac-susceptibility do 3 GPa a taktiež meraním Ramanovho rozptylu do 14 GPa bolo možné zrealizovať štúdium vplyvu tlaku na Ginzburgov-Landauov parameter [6] a na Einsteinov fonónový mód supravodiča YB6 (TC = 7.5 K) [7]. Výsledky boli prezentované na konferenciách CSMAG´16 (13.-17.6.2016, Košice), QFS (10.-16.8.2016, Praha) a KSF (6.-9.9.2016, TU Košice).   
   
[1] S. Gabáni, M. Orendáč, G. Pristáš, E. Gažo, P. Diko, S. Piovarči, V. Glushkov, N. Sluchanko., A. Levchenko, N. Shitsevalova, K. Flachbart: Transport properties of variously doped SmB6. Philosophical Magazine 96, 3274-3283 (2016).   
[2] K. Nishiyam, T. Mito, G. Pristáš, T. Koyama, K. Ueda, T. Kohara, S. Gabáni, K. Flachbart, H. Fukazawa, Y. Kohori, N. Takeshita, N. Shitsevalova, H. Ikeda: High-pressure induced modi?cations in the hybridization gap of the intermediate-valence compound SmB6. Physical Review B 93, R121111 (2016).   
[3] N.E. Sluchanko, A.N. Azarevich, M.A. Anisimov, A.V. Bogach, S.Yu. Gavrilkin, M.I. Gilmanov, V.V. Glushkov, S.V. Demishev, A.L. Khoroshilov, A.V. Dukhnenko, K.V. Mitsen, N.Yu. Shitsevalova, V.B. Filippov, V.V. Voronov, K. Flachbart: Suppression of superconductivity in LuxZr1-xB12: Evidence of static magnetic moments induced by nonmagnetic impurities. Physical Review B 93, 085130 (2016).   
[4] S.V. Demishev, I.I. Lobanova, A.V. Bogach, V.V. Glushkov, V.Yu. Ivanov, T.V. Ischenko, N.A. Samarin, N.E. Sluchanko, S. Gabáni, E. Čižmár, K. Flachbart, N.M. Chubova, V.A. Dyadkin, S.V. Grigoriev: Effect of a magnetic field on the intermediate phase in Mn1-xFexSi: Spin-liquid versus fluctuations scenario. Journal of Experimental and Theoretical Physics Letters 103, 321-327 (2016).   
[5] A.L. Khoroshilov, A.N. Azarevich, A.V. Bogach, V.V. Glushkov, S.V. Demishev., V.N. Krasnorussky, V.V. Voronov., N.Yu. Shitsevalova, V.B. Filippov, S. Gabani, K. Flachbart, N. E. Sluchanko: Isosbestic point and magnetoresistance components in Ho0.5Lu0.5B12. Journal of Low Temperature Physics 185, 522-530 (2016).   
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**9.)**  *(Inhibitors of protein amyloid aggregation)*

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| **Zodpovedný riešiteľ:** | Zuzana Gažová |
| **Trvanie projektu:** | 1.1.2013 / 31.12.2016 |
| **Evidenčné číslo projektu:** | 2/0181/13 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** |  |

*Dosiahnuté výsledky:*   
Študovali sme účinok fulerenolu na amyloidnú agregáciu A? peptidu tvoriaceho amyloidné plaky v mozgu pacientov s Alzheimerovou chorobou. Fulerenol so 16 hydoxylovými skupinami naviazanými na povrchu fulerénu C60 bol schopný efektívne inhibovať tvorbu amyloidných agregátov. Kľúčovú úlohu pri tomto procese zohrávali najmä elektrostatické interakcie postranných reťazcov aminokyselín A? peptidu a OH skupín na povrchu fulerenolu, ktoré viedli k zvýšeniu flexibility soľného mostíka medzi aminokyselinami D23 a K28 zodpovedného za vznik amyloidných štruktúr. Zistili sme tiež, že takrín-kumarínové deriváty by mohli byť využité ako multitargetové terapeutiká pri liečbe Alzheimerovej choroby. Deriváty boli schopné inhibovať tvorbu amyloidných fibríl A? peptidu ako aj vychytávať voľné radikály tvoriace sa pri ACH a účinne inhibovať aktivitu cholínesteráz. Študovali sme účinok krátkych peptidov z amyloidogénnej oblasti lyzozýmu na amyloidnú fibrilizáciu tohto proteínu. Inhibičná aktivita bola podmienená veľkosťou náboja a hydrofobicitou krátkych peptidov. Venovali sme sa tiež interakcii kurkumínových derivátov a nanočastíc s amyloidnou agregáciou poly/peptidov.   
   
Bednarikova Z., Huy P.D.Q., Mocanu M.M., Fedunova D., Li M.S., Gazova Z.: Fullerenol C60(OH)16 prevents amyloid fibrillization of A?40 – in vitro and in silico approach. Physical Chemistry Chemical Physics, 18, 18855-18867 (2016)   
Hamulakova S., Poprac P., Jomova K., Brezova V., Lauro P., Drostinova L., Jun D., Sepsova V., Hrabinova M., Soukup O., Kristian P., Gazova Z., Bednarikova Z., Kuca K., Valko M.: Targeting copper(II)-induced oxidative stress and the acetylcholinesterase system in Alzheimer's disease using multifunctional tacrine-coumarin hybrid molecules. Journal of Inorganic Biochemistry, 161, 52-62 (2016)   
Kar R. K., Gazova Z., Bednarikova Z., Mroue K. H., Ghosh A., Zhang R., Ulicna K., Siebert H.-Ch., Nifantiev N. E., Bhunia A.: Evidence for Inhibition of Lysozyme Amyloid Fibrillization by Peptide Fragments from Human Lysozyme: A Combined Spectroscopy, Microscopy and Docking Study. Biomacromolecules, 17 (6), 1998-2009 (2016)   
Katarina Siposova, Kristyna Pospiskova, Zuzana Bednarikova, Ivo Safarik, Mirka Safarikova, Martina Kubovcikova, Peter Kopcansky, Zuzana Gazova: The molecular mass of dextran used to modify magnetic nanoparticles affects insulin amyloid aggregation. Journal of Magnetism and Magnetic Materials, DOI: http://dx.doi.org/10.1016/j.jmmm.2016.10.083 (2016)   
Erika Ferrari, Rois Benassi, Monica Saladini, Guilia Orteca, Zuzana Gazova, Katarina Siposova: In vitro study on potential pharmacological activity of curcumin analogues and their copper complexes. Chemical Biology and Drug Design, 1 – 9 (2016)   
Jozefina Majorosova, Viktor I. Petrenko, Katarina Siposova, Milan Timko, Natalia Tomasovicova, Vasil M. Garamus, Marceli Koralewski, Mikhail V. Avdeev, Błazej Leszczynski, Stefan Jurga, Zuzana Gazova, Shura Hayryan, Chin-Kun Hu, Peter Kopcansky: On the adsorption of magnetite nanoparticles on lysozyme amyloid fibrils. Colloids and Interfaces B, 2016, 146, 794 – 800   
Olga Nowacka, Katarzyna Milowska, Sylwia Belica-Pacha, Bartlomiej Palecz, Katarina Siposova, Zuzana Gazova, Maria Bryszewska: Generation-dependent effect of PAMAM dendrimers on human insulin fibrillation and thermal stability. International Journal of Biological macromolecules, 2016, 82, 54 -60   
   
**10.) Štúdium vlastností turbulentných prostredí s narušenými symetriami** *((Study of properties of turbulent environments with symmetry breaking)*

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| **Zodpovedný riešiteľ:** | Marián Jurčišin |
| **Trvanie projektu:** | 1.1.2013 / 31.12.2016 |
| **Evidenčné číslo projektu:** | 2/0093/13 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 3 - Rusko: 3 |
| **Čerpané financie:** |  |

*Dosiahnuté výsledky:*   
Metódami kvantovej teórie poľa v druhom ráde poruchového počtu bol študovaný všeobecný, tzv. A-model pasívnej vektorovej prímesi v turbulentnom prostredí riadenom stochastickou Navier-Stokesovou rovnicou. Bolo nájdený výraz pre všeobecné vektorové turbulentné Prandtlovo číslo. Metódami kvantovej teórie poľa v prvom ráde poruchového počtu bol študovaný vplyv anizotropie turbulentného prostredia na difúzne procesy. Bola nájdená explicitná závislosť turbulentného Prandtlovho čísla od parametrov jednoosovej anizotropie.   
   
E. Jurčišinová and M. Jurčišin, Exact results for the spin-1 Ising model on pure “square” Husimi lattices: Critical temperatures and spontaneous magnetization, Physica A 444 (2016) 641-653;   
E. Jurčišinová and M. Jurčišin, Single-point ground states and residual entropies in the antiferromagnetic Ising model with multisite interaction on the tetrahedral chain: exact results,   
J. Stat. Mech. (2016) 013101;   
E. Jurčišinová, M. Jurčišin, and R. Remecký, Turbulent Prandtl number in the A model of passive vector admixture, Phys. Rev. E 93 (2016) 033106;   
E. Jurčišinová and M. Jurčišin, Spin-1 Ising model on tetrahedron recursive lattices: Exact results, Physica A 461 (2016) 554-568;   
E. Jurčišinová and M. Jurčišin, Geometric frustration effects in the spin-1 antiferromagnetic Ising model on the kagome-like recursive lattice: Exact results, J. Stat. Mech. (2016) 093207;   
E. Jurčišinová and M. Jurčišin, Diffusion in anisotropic fully developed turbulence: Turbulent Prandtl number, Phys. Rev. E 94 (2016) 043102.   
   
   
   
**11.) Komplementárne štúdium supravodivosti vybraných materiálov** *(Complementary study of superconductivity of selected materials)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Jozef Kačmarčík |
| **Trvanie projektu:** | 1.1.2016 / 31.12.2019 |
| **Evidenčné číslo projektu:** | 2/0149/16 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 5 - Belgicko: 1, Česko: 1, Francúzsko: 2, USA: 1 |
| **Čerpané financie:** | VEGA: 15328 € |

*Dosiahnuté výsledky:*   
J. Kačmarčík, Z. Pribulová, T. Samuely, P. Szabó, V. Cambel, J. Šoltýs, E. Herrera, H. Suderow, A. Correa-Orellana, D. Prabhakaran, and P. Samuely:   
Single-gap superconductivity in ?-Bi2Pd,   
Phys. Rev. B 93 (2016) 144502.   
   
G. Zhang, T. Samuely, J. Kačmarčík, E.A. Ekimov, J. Li, J. Vanacken, P. Szabó, J. Huang, P.J. Pereira, D. Cerbu, and V.V. Moshchalkov:   
Bosonic anomalies in boron-doped polycrystalline diamond,   
Phys. Rev. Applied 6 (2016) 064011.   
   
   
**12.) Vývoj nových postupov pre rekonštrukciu a analýzu dát z protón-protónových zrážok na urýchľovači LHC** *(Development of new procedures for the reconstruction and analysis of the data from the proton-proton collisions at the LHC)*

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| **Zodpovedný riešiteľ:** | Eduard Kladiva |
| **Trvanie projektu:** | 1.1.2016 / 31.12.2019 |
| **Evidenčné číslo projektu:** | 2/0174/16 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA: 6603 € |

*Dosiahnuté výsledky:*   
V tomto roku ury?chl?ovac? LHC pokračoval v naberaní štatistiky pri rekordnej energii pp zra?z?ok 13TeV, s luminozitou prevyšujúcou plánované hodnoty, takz?e medodicka? a softwarova? c?ast? projektu sa su?stredila na udržanie presnosti kalibrac?ných a rekons?trukc?ných procedu?r aj v prostredí zvýšeného pozadia. Našej skupine sa podarilo udržať kvalitu da?t merany?ch LAr kalorimetrom, vyše 99.6% dát je vhodných na fyzikálnu analýzu.   
Pokrac?ovali sme v analy?ze hmotnosti top-kvarku v dilepto?novom kanale, kde sme zi?skali finálny vy?sledok so započítaním všetkých systematických chýb. Koncom roka sme začali pracovať na analýze spinových parametrov top-antitop párov.   
U?spes?ne sme prevádzkovali a čiastočne obnovili GRID farmu na u?stave a spol?ahlivo spoc?i?tali vel?a u?loh pre kolabora?ciu ATLAS.   
Vy?sledky pra?ce su? ty?mto zahrnute? v mnohy?ch publika?cia?ch, ktore? kolabora?cia ATLAS publikovala minuly? rok, vo va?c?s?ine publika?cii? v karentovany?ch c?asopisoch (vid? zoznam publika?cii? vo vy?roc?nej spra?ve U?EF SAV ........), ako aj v mnohy?ch preprintoch a interny?ch no?tach kolabora?cie ATLAS, ktory?ch zoznam pre jeho dl?z?ku neuva?dzame.   
   
   
**13.) Citlivosť kvapalných kryštálov s nanočasticami na vonkajšie magnetické pole** *(Sensitivity of liquid crystals containing nanoparticles to external magnetic field)*

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| --- | --- |
| **Zodpovedný riešiteľ:** | Peter Kopčanský |
| **Trvanie projektu:** | 1.1.2013 / 31.12.2016 |
| **Evidenčné číslo projektu:** | 2/0045/13 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** |  |

*Dosiahnuté výsledky:*   
V súlade so stanovenými cieľmi boli pripravené feronematika na báze rôznych typov kvapalných kryštálov (termotropných a   
lyotropných) dopované magnetickými nanočasticami rôznych tvarov. Bol študovaný vplyv dopovania na ich magnetické,   
magneto-optické a magneto-dielektrické vlastnosti ako aj vplyv dopovania na teplotu prechodu z izotrópnej do nematickej   
fázy. Ukázalo sa, že dopovanie magnetickými nanočasticami vedie k lineárnej odozve dielektrických vlastností v oblasti   
malých magnetických polí ešte pred štandardným Fredeerickszovým prechodom. Bolo po prvýkrát ukázané, že prechod z   
izotropnej do nematickej fázy a naopak môže slúžiť ako citlivý detektor malých magnetických polí na úrovni zemského   
magnetického poľa. Tieto výsledky ukazujú, že feronematiká sú vhodný materiál na detekciu malých magnetických poli.   
Podarilo sa úspešne naviazať magnetické nanočastice na lyotropné kvapalné kryštály na báze biologických amyloidnych   
štruktúr, čo je základom pre prípravu biohybridných feronematík.   
   
MAJOROŠOVÁ, Jozefína - PETRENKO, Viktor I. - ŠIPOŠOVÁ, Katarína - TIMKO, Milan - TOMAŠOVIČOVÁ, Natália - GARAMUS, Vasil M. - KORALEWSKI, M. - AVDEEV, Mikhail V. - LESZCZYNSKI, Blažej - JURGA, Stefan - GAŽOVÁ, Zuzana - HAYRYAN, S. - HU, Chin-Kun - KOPČANSKÝ, Peter. On the adsorption of magnetite nanoparticles on lysozyme amyloid fibrils. In Colloids and Surfaces B - Biointerfaces, vol. 146, (2016) p. 794-800.   
MOLČAN, Matus - Gojzewski, Hubert - Skumiel, Andrzej - Dutz, Silvio - Kovac, Jozef - Kubovcikova, Martina - Kopcansky, Peter - Vekas, Ladislau - Timko, Milan, Energy losses in mechanically modified bacterial magnetosomes, JOURNAL OF PHYSICS D-APPLIED PHYSICS ,Volume: 49 ,Issue: 36, (2016) Article Number: 365002, DOI: 10.1088/0022-3727/49/36/365002   
   
KUDELĆÍK, Jozef - Hardon, Stefan - Bury, Peter - Kopcansky, Peter - Timko, Milan, Acoustic spectroscopy of magnetic fluids based on transformer oil, JOURNAL OF INTELLIGENT MATERIAL SYSTEMS AND STRUCTURES, Volume: 27, Issue: 7, ( 2016) Pages: 935-943 ,DOI: 10.1177/1045389X15610903   
   
TOMAŠOVIČOVÁ, Natalia - Kovac, Jozef - Raikher, Yuriy - Eber, Nandor - Toth-Katona, Tibor - Gdovinova, Veronika - Jadzyn, Jan - Pincak, Richard -Kopcansky, Peter, Biasing a ferronematic - a new way to detect weak magnetic field, SOFT MATTER ,Volume: 12, Issue: 26 , (2016) Pages: 5780-5786, DOI: 10.1039/c6sm00354k   
   
Medzinárodný patent:   
Method of electrical conductivity increase of 6???? nematic liquid crystal by introduction of nanoparticles Cu6PS5I superionic conductor: patent of Ukraine ?111241, MPK G01R 3/00, G02F 1/13 (2016.01) / I.P. Studenyak, O.V. Kovalchuk, A.V. Bendak, V.?. Studenyak, P. Kopčanský, M. Timko. – ?u201603325; Decl. 31.03.2016; Publ. 10.11.2016, Bull. ?21. – 2 p.   
   
   
**14.) Magnetizačné a relaxačné procesy v magnetických časticiach a kompozitoch.** *(Magnetization and relaxation processes in magnetic particles and composites.)*

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| **Zodpovedný riešiteľ:** | Jozef Kováč |
| **Trvanie projektu:** | 1.1.2016 / 31.12.2019 |
| **Evidenčné číslo projektu:** | 1/0377/16 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Prírodovedecká fakulta UPJŠ, Košice |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** |  |

*Dosiahnuté výsledky:*   
LAUDA, M. - FÜZER, J. - KOLLÁR, P. - STREČKOVÁ, Magdaléna - BUREŠ, Radovan - KOVÁČ, Jozef - BAŤKOVÁ, Marianna - BAŤKO, Ivan. Magnetic properties and loss separation in FeSi/MnZnFe2O3 soft magnetic composites. In Journal of Magnetism and Magnetic Materials, 2016, vol. 411, p. 12-17. (2.357 - IF2015). (2016 - Current Contents, WOS, SCOPUS). ISSN 0304-8853. Typ: ADCA   
   
**15.) Rýchlochladené amorfné a Heuslerove zilatiny s význačnými vlastnosťami. Príprava a charakterizácia.** *(Rapidly quenched amorphous and Heusler alloys with unique properties. Production and characterization.)*

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| **Zodpovedný riešiteľ:** | Jozef Kováč |
| **Trvanie projektu:** | 1.1.2016 / 31.12.2018 |
| **Evidenčné číslo projektu:** | 1/0164/16 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Prírodovedecká fakulta UPJŠ, Košice |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** |  |

*Dosiahnuté výsledky:*   
1.S.Piovarči, P. Diko, V. Kavečanský, T. Ryba, Z. Vargová, R. Varga: Structure of melt-spun Co2MnAl Heusler alloy. 16th Czech and Slovak Conference on Magnetism, 13.-17. Jún 2016, Košice, zaslané do Acta Physica Polonica A   
   
P. Diko, V. Kavecansky, S. Piovarci, T. Ryba, Z. Vargová, R. Varga, Microstructure   
   
 of Heuser allys prepared by mould casting and melt spinning, prijaté do: Trans Tech   
 Publications, Material Science Forum   
   
Abstrakty vyžiadaných príspevkov z medzinárodných konferencií   
   
1.P. Diko, V. Kavečanský, S. Piovarči, T. Ryba, Z. Vargová, R. Varga   
Microstructure of Heuser allys prepared by mould casting and melt spinning   
pozvaná prednáška, XVI. International Symposium on Metallography and Material Science, Stará Lesná, 20. - 22. April 2016.   
   
   
**16.) Variabilita kozmického žiarenia meraného na zemskom povrchu** *(Variability of cosmic ray flux measured on Earth's surface)*

|  |  |
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| **Zodpovedný riešiteľ:** | Karel Kudela |
| **Trvanie projektu:** | 1.1.2016 / 31.12.2017 |
| **Evidenčné číslo projektu:** | 2/0026/16 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** |  |

*Dosiahnuté výsledky:*   
1.Wayan Suparta, Gusrizal, Karel Kudela, and Zaidi Isa, A Hierarchical Bayesian Spatio-Temporal Model to Forecast Trapped Particle   
Fluxes over the SAA Region, Terr. Atmos. Ocean. Sci., Accepted Manuscript Online: 13 April 2016, doi: 10.3319/TAO.2016.02.25.01(AA)   
   
2.Partha Chowdhury, K. Kudela, and Y.-J. Moon, A Study of Heliospheric Modulation and Periodicities of Galactic Cosmic Rays During Cycle 24,Solar Phys (2016) 291:581–602, DOI 10.1007/s11207-015-0832-7   
   
3.Karel Kudela and Ismail Sabbah, Quasi-periodic variations of low energy cosmic rays, Science China Technological Sciences (2016), April 2016 Vol.59 No.4: 547–557, doi: 10.1007/s11431-015-5924-y   
   
4.Kollárik, M., K. Kudela, R. Langer, and I. Strhárský (2016), First results from the measuring Equipment SEVAN on Lomnický štít: possible connections with atmospheric phenomena, Proceedings of International Symposium TEPA 2015 Thunderstorms and Elementary Particle Acceleration, Cosmic Ray Division, Yerevan Physics Institute, Armenia, https://inspirehep.net/record/1407534, http://crd.yerphi.am/Conferences/tepa2015/files/tepa-2015-21march-low.pdf, p. 31-34   
   
5. Ronald Langer: Cosmic rays and thunderstorms at Lomnický štít, 13th INTEGRAL/BART Workshop 18 – 21 April 2016, Karlovy Vary, http://www.ibws.cz/abstracts   
   
6.Svetlana BIČÁROVÁ, Hana PAVLENDOVÁ, Zuzana SITKOVÁ, Helena HLAVATÁ, Anna BUCHHOLCEROVÁ, Marek KOLLÁRIK, Karel KUDELA, Ronald LANGER, Surface ozone at Lomnický štít - the highest monitoring site of the Carpathians, FORUM CARPATICUM 2016 Future of the Carpathians: Smart, Sustainable, Inclusive September 28 – 30, 2016 Bucharest, Romania, book of abstracts, p. 71-72   
   
7. Lu Li, S. McKenna-Lawlor, Jin Bin Cao, K. Kudela, and J. Baláž, The causal sequence investigation of the ring current ion-flux increasing and the magnetotail ion injection during a major storm, Science China Earth Sciences, January 2016 Vol.59 No.1: 129–144, doi: 10.1007/s11430-015-5121-7   
   
   
   
   
**17.) Matud Mihalik**

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| --- | --- |
| **Zodpovedný riešiteľ:** | Matúš Mihálik |
| **Trvanie projektu:** | 1.1.2016 / 31.12.2019 |
| **Evidenčné číslo projektu:** | 2/0010/16. |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA: 3773 € |

*Dosiahnuté výsledky:*   
Prednáška:"Synthesis and characterization of selected cerium and uranium compounds", autori: Z. Molčnová, M. Mihalik, M. Mihalik jr., V. Kavečanský, J. Briančin, M. Paukov, L. Havela; vyšlo v zborníku z 22nd conference of slovak physicists, editori A. Džubinská, M. Reiffers, ISBN 978-80-89855-01-8.   
   
**18.) Vplyv extrémnych podmienok (magnetické pole, tlak, teplota) na neobvyklé chovanie základného stavu a fázové prechody v korelovaných látkach** *(Effect of extreme environment (magnetic field, pressure, temperature) on the anomalous behavior of the ground state and phase transitions in strongly correlated materials.)*

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| **Zodpovedný riešiteľ:** | Matúš Mihálik |
| **Trvanie projektu:** | 1.1.2016 / 31.12.2018 |
| **Evidenčné číslo projektu:** | 2/0010/16 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** |  |

*Dosiahnuté výsledky:*   
   
   
**19.) Funkčná a štruktúrna integrita proteínov v dvojvrstvových micelách – aplikácia na mitochondriálne a amyloidogénne proteíny** *(Functionality and Structural Integrity of Proteins in Bicelles – Implications for Mitochondrial and Amyloidogenic Proteins)*

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| **Zodpovedný riešiteľ:** | Andrey Musatov |
| **Trvanie projektu:** | 1.1.2014 / 31.12.2016 |
| **Evidenčné číslo projektu:** | 2/0062/14 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** |  |

*Dosiahnuté výsledky:*   
V projekte bol použitý nový modelový systém membrán, bicely, v štúdiu mitochondriálnej cytochróm c oxidázy (CcO) a amyloidogénnych proteínov. Pozorovali sme význanmný vplyv fosfolipidov aj detergentov ako na štrukturálnu, tak aj na funkčnú integritu CcO. Najvýznamnejšie výsledky práce sú nasledovné: i) protónové pumpovanie CcO je pri odstránení fosfolipidov úplne potlačené; ii) kinetická stabilita CcO závisí na viazaných fosfolipidoch a od agregačného stavu; iii) použitím HPLC bola dosiahnutá rýchla a účinná separácia podjednotiek CcO a cytochróm bc1 komplexu. Takto charakterizovaný enzým bol úspešne inkorporovaný do pripravených biciel. Preukázali sme, že CcO začlenená do biciel má zachovanú štruktúru a aktivitu mitochondriálneho komplexu IV. Taktiež sme preukázali, že amyloidná agregácia lyzozýmu je úplne inhibovaná v prítomnosti neiónových detergentov, so špecifickými väzobnými miestami v proteíne. Na základe toho sme navrhli aj mechanizmus inhibície amyloidnej agregácie.   
Publikácie (5):   
1. Musatov A., Varhač R., Hosler J.P., Sedlák E. (2016) Delipidation of Cytochrome c Oxidase from Rhodobacter sphaeroides Destabilizes its Quaternary Structure. Biochimie 125, 23-31. IF(5 year) 2.474   
2. Musatov, A., Siposova, K., Kubovcikova, M., Lysakova, V., Varhac, R. (2016) “Functional and Structural Evaluation of Bovine Heart Cytochrome c Oxidase Incorporated into Bicelles” Biochimie 121, 21-28. IF(5 year) 3.102   
3.Garajová K., Balogová A., Dušeková E., Sedláková D., Sedlák E., Varhač R. (2017) Correlation of lysozyme activity and stability in the presence of Hofmeister series anions. BBA – Proteins & Proteomics 1865(3), 281–288. IF(5 year) 3.280   
4. Kesa, P., Bhide, M., Lysakova, V., Musatov, A. (2017) “Subunit analysis of mitochondrial cytochrome c oxidase and cytochrome bc1 by reversed-phase high-performance liquid chromatography” Analytical Biochemistry, 516, 6-8. IF(5 year) 2.47   
5. Siposova, K., Kozar, T., Musatov, A. (2017) Interaction of nonionic detergents with the specific sites of lysozyme amyloidogenic region ? inhibition of amyloid fibrillization. Colloids and Surface B: Biointerfaces 150, 445-455. IF(5 year) 4.269   
   
Prednášky (4):   
1. Sedlák E., Role of cardiolipin for stability of cytochrome c oxidase. (English, (invited lecture) Regional Biophysics Conference RBC2016, 25-28 August 2016, Trieste, Italy   
2. Musatov, A., Sedlák E., Varhac, R. Cytochrome c oxidase – a terminal complex of the respiratory chain. In: 25. Martinské dni dýchania. - ISBN 978-80-8187-015-6. - Martin: Ústav lekárskej biofyziky JLF UK, 2016.   
3. Sedlák E., Musatov, A., Varhac, R. The role of cardiolipin for function and stability of cytochrome c oxidase. In: 25. Martinské dni dýchania. - ISBN 978-80-8187-015-6. - Martin: Ústav lekárskej biofyziky JLF UK, 2016.   
4. Lysáková, V., Leňová, K., Tomášková, N., Musatov A. - Úloha mitochondriálnych elektrón-transportných proteínov v regulácii mitochondriálneho oxidačného stresu. In: Vedecké práce doktorandov 2016: zborník zo seminára doktorandov venovaného pamiatke akademika Boďu XI. ročník: 5. - 6. september 2016, Košice. - Košice: Ústav fyziológie hospodárskych zvierat SAV, 2016. - ISBN 9788097142834. - S. 49-51. (ocenený príspevok)   
   
**20.) Vlastnosti jadrovej matérie vytvorenej v interakciách s jadrovými terčíkmi pri vysokých energiách** *(Properties of nuclear matter created in interactions with nuclear targets at high energies)*

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| **Zodpovedný riešiteľ:** | Ján Nemčík |
| **Trvanie projektu:** | 1.1.2014 / 31.12.2017 |
| **Evidenčné číslo projektu:** | vega 2/0020/14 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | UEF SAV Kosice: 1887 € |

*Dosiahnuté výsledky:*   
CC publications with IF   
-----------------------   
[1] Eduardo Basso, Victor P. Goncalves, Jan Nemchik, Roman Pasechnik, Michal Sumbera; "Drell-Yan phenomenology in the color dipole picture revisited" Published in Phys.Rev. D93 (2016) no.3, 034023   
DOI: 10.1103/PhysRevD.93.034023; e-Print: arXiv:1510.00650 [hep-ph]   
   
[2] Eduardo Basso, Victor P. Goncalves, Michal Krelina, Jan Nemchik, Roman Pasechnik; "Nuclear effects in Drell-Yan pair production in high-energy pA collisions". Published in Phys.Rev. D93 (2016) no.9, 094027   
DOI: 10.1103/PhysRevD.93.094027; e-Print: arXiv:1603.01893 [hep-ph]   
   
[3] Victor P. Goncalves, Michal Krelina, Jan Nemchik, Roman Pasechnik;   
"Drell-Yan process in pA collisions: The path integral treatment of coherence effects". Published in Phys.Rev. D94 (2016) 114009   
DOI: 10.1103/PhysRevD.94.114009; e-Print: arXiv:1608.02892 [hep-ph]   
   
CC publications without IF   
--------------------------   
   
[4] Michal Krelina, Eduardo Basso, Victor P. Goncalves, Jan Nemchik, Roman Pasechnik; "Nuclear effects in Drell-Yan production at the LHC"   
Published in EPJ Web Conf. 120 (2016) 03007   
DOI: 10.1051/epjconf/201612003007   
   
[5] Michal Krelina, Eduardo Basso, Victor P. Goncalves, Jan Nemchik, Roman Pasechnik; "Systematic study of real photon and Drell-Yan pair production in p+A (d+A) interactions"   
Published in EPJ Web Conf. 120 (2016) 03006   
DOI: 10.1051/epjconf/201612003006   
   
Conferences   
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[6] Michal Krelina, Eduardo Basso, Victor P. Goncalves, Jan Nemchik, Roman Pasechnik; "Drell-Yan process in p+Pb collisions at the LHC"   
presented at the Fourth Annual Large Hadron Collider Physics LHCP2016, 13-18 June 2016, Lund, Sweden.   
Published in Proceedings of Science PoS (LHCP2016) 227.   
http://pos.sissa.it/archive/conferences/276/227/LHCP2016\_227.pdf   
   
[7] Michal Krelina, Eduardo Basso, Victor P. Goncalves, Jan Nemchik, Roman Pasechnik; "Study of Drell-Yan pair production on nuclear targets",   
presented at the Workshop Hot Quarks 2016, 12-17 September 2016, Sauth Padre Island TX, USA.   
will be published in Journal of Physics: Conference Series.   
   
[8] B. Kopeliovich, J. Nemchik, I.K. Potashnikova, I. Schmidt;   
"Puzzling production of heavy flavored hadrons",   
presented at the International Conference Hadron Structure and QCD: from Low to High Energies, 27 June - 1 July 2016, Gatchina, Russia.   
   
[9] B. Kopeliovich, J. Nemchik, I.K. Potashnikova, I. Schmidt;   
"Quenching of heavy flavors at high pT",   
presented at the 11th International Workshop on High-pT Physics in the RHIC & LHC Era, 12-15 April 2016, Brookhaven National Laboratory, Upton, NY 11973, USA.   
https://indico.bnl.gov/getFile.py/access?contribId=24&sessionId=2&resId=0&materialId=slides&confId=1800   
   
[10] B. Kopeliovich, J. Nemchik, I.K. Potashnikova, I. Schmidt;   
"Heavy ?avor production o? nucl",   
presented at the 5th International Conference on New Frontiers in Physics (ICNFP2016 Conference} 6-14 July 2016, OAC Kolymbari, Creta, Greece.   
https://indico.cern.ch/event/442094/contributions/2227213/attachments/1308558/1956919/KOPELIOVICH.pdf   
Will be published in European Physical Journal Web of Conferences.   
   
[11] Victor P. Goncalves, Jan Nemchik, Roman Pasechnik, Michal Sumbera;   
"High-p T pion associated with dilepton and heavy quarkonia production   
in pp collisions at RHIC and LHC",   
presented at the 11th International Workshop on High-pT Physics in the RHIC & LHC Era, 12-15 April 2016, Brookhaven National Laboratory, Upton, NY 11973, USA.   
https://indico.bnl.gov/getFile.py/access?contribId=26&sessionId=4&resId=0&materialId=slides&confId=1800   
   
[121 Victor P. Goncalves, Jan Nemchik, Roman Pasechnik, Michal Sumbera;   
"Color dipole approach to Drell-Yan and heavy quarkonia production at RHIC and LHC",   
presented at the 7th International Conference on Physics Opportunities at an ElecTron-Ion-Collider (POETIC 2016), 14-18 November 2016, Temple University, Philadelphia, USA.   
   
   
   
**21.) Štúdium supravodivých nanoštruktúr a nanovrstiev** *(Study of superconducting nanostructures and nanolayers)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Peter Samuely |
| **Trvanie projektu:** | 1.1.2015 / 31.12.2018 |
| **Evidenčné číslo projektu:** | 1/0409/15 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Univerzita P.J. Šafárika, Prírodovedecká fakulta |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** |  |

*Dosiahnuté výsledky:*   
Projekt riešil problematiku supravodivosti v obmedzenej geometrii. Konkrétnejšie riešili sme vplyv rozhrania a hrúbky ultratenkých MoC filmov na prechod supravodič-izolant [1]. V mnohopásovom supravodiči Bi2Pd sme pomocou viacerých experimentálnych techník zistili, že masívna časť vzorky sa chová ako štandardný BCS supravodič, zatiaľ čo na povrchu môžu existovať topologicky chránené stavy [2]. V bórom dopovanom diamante sme pozorovali efekty štruktúrnej aj elektronickej granularity [3].   
[1] P. Szabó, T. Samuely, V. Hašková, J. Kačmarčík, M. Žemlička, M. Grajcar, J. G. Rodrigo, and P. Samuely, Fermionic scenario for the destruction of superconductivity in ultrathin MoC films evidenced by STM measurements, Phys. Rev. B 93, 014505 (2016).   
[2] J. Kačmarčík, Z. Pribulová, T. Samuely, P. Szabó, V. Cambel, J. Šoltýs, E. Herrera, H. Suderow, D. Prabhakaran, and P. Samuely, Single-gap superconductivity in ß-Bi2Pd, Phys. Rev. B 93, 144502 (2016).   
[3] G. Zhang, T. Samuely, J. Kačmarčík, P. Szabó et al., Bosonic Anomalies in Boron-Doped Polycrystalline Diamond, Phys. Rev. Applied 6, 064011 (2016)   
   
   
**22.) Spontánne a vyvolané cielené samousporiadanie polymérnych a nepolymérnych materiálov v kvapalnom stave** *(Spontaneously occurring and induced target-oriented self-assembly of polymeric and nonpolymeric materials in liquid state)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Marián Sedlák |
| **Trvanie projektu:** | 1.1.2014 / 31.12.2016 |
| **Evidenčné číslo projektu:** | 2/0182/14 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** |  |

*Dosiahnuté výsledky:*   
   
   
**23.) Supratekuté hélium-3 ako topologický izolátor** *(Superfluid helium-3 as topological insulator)*

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| --- | --- |
| **Zodpovedný riešiteľ:** | Peter Skyba |
| **Trvanie projektu:** | 1.1.2015 / 31.12.2017 |
| **Evidenčné číslo projektu:** | 2/0157/15 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 6 - Fínsko: 2, Francúzsko: 2, Veľká Británia: 2 |
| **Čerpané financie:** |  |

*Dosiahnuté výsledky:*   
V roku 2016 sme pokračovali v štúdiu fyzikálnych vlastností mechanických piezo-rezonátorov vo vákuu a v milikelvinovej teplotnej oblasti. Študované vzorky piezo-rezonátorov s faktorom kvality Q ~10^6 a rozličnými hodnotami rezonančnej frekvencie (32-100 kHz) boli merané pomocou pulzno-demodulačnej meracej techniky, ktorá umožňuje merať rezonančnú frekvenciu rezonátora s rozlíšením v 9. ráde. U všetkých študovaných vzoriek bola detegovaná reprodukovateľná teplotne závislá zmena rezonančnej frekvencie v teplotnom rozsahu od 22 mK do 1 K. Vypracovali sme dva fyzikálne modely, ktoré môžu vysvetliť pozorované javy. Prvý model je založený na vplyve dlho-vlnových akustických fonónov a dlho-vlnových plazmónov v systéme valenčných elektrónov piezo-rezonátora na jeho rezonančné charakteristiky. Druhý model je založený na van der Waals-ovskej interakcii medzi oscilujúcimi elektrickými dipólmi v piezo-rezonátore , pričom táto interakcia zachováva fázovú koherenciu oscilácií. Predbežné výsledky boli publikované v práci [1].   
   
Ďalej boli študované vlastnosti mechanických rezonátorov na báze supravodivých cínových whiskerov (Sn-whisker). Merania rezonančných charakteristík Sn-whiskerov boli prevedené ako spektrálnymi (t.j. s kontinuálnou excitáciou), tak aj impulznými technikami. Všetky vzorky Sn-whiskerov vykazovali nelineárny „Duffingov“ režim, pričom sme ukázali na prítomnosť bifurkačného módu u tohto typu rezonátora.   
   
Zaviedli sme definovanú teplotnú stupnicu v milikelvinovej oblasti teplôt na báze SQUID-šumového teplomera, ktorý je kalibrovaný na základe definovaných teplôt prechodov vzoriek čistých supravodičov do supravodivého stavu.   
   
[1] M. Človečko, M. Grajcar, M. Kupka, P. Neilinger, M. Rehák, P. Skyba, F. Vavrek, High Q value Quartz Tuning Fork in Vacuum as a Potential Thermometer in Millikelvin Temperature Range, JLTP on line, DOI: 10.1007/s10909-016-1696-4   
   
   
**24.) Rýchlochladené magneticky mäkké a magneticky tvrdé kompozitné materiály pre aplikácie v energetike a senzorike.** *(Rapidly quenched soft and hard magnetic composites for energy and sensor applications.)*

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| --- | --- |
| **Zodpovedný riešiteľ:** | Ivan Škorvánek |
| **Trvanie projektu:** | 1.1.2016 / 31.12.2018 |
| **Evidenčné číslo projektu:** | 2/0173/16 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** |  |

*Dosiahnuté výsledky:*   
L. González-Legarreta, F. Andrejka, J. Marcin, P. Švec, M. Varga, D. Janičkovič, P. Švec Sr., I. Škorvanek, Magnetoimpedance effect in nanocrystalline Fe73.5Cu1Nb3Si13.5B9 single-layer and bilayer ribbons, Journal of Alloys and Compounds 688 (2016) p. 94-100.   
   
A. Musial, Z. Sniadecki, J. Marcin, J. Kováč, I. Škorvánek, B. Idzikowski, Magnetism of coexisting rhombohedral and orthorhombic Hf2Co11 phases in rapidly quenched Hf2Co11B, Journal of Alloys and Compounds 665, (2016), p. 93-99.   
   
I.Škorvánek, J. Marcin, P.Švec, Advanced Nanocrystalline Magnetic Materials for Energy and Sensor Applications, NANOCON 2016 : 8th International Conference on Nanomaterials - Research and Application, Brno, Czech Republic. October 19 - 21, 2016, Book of Abstracts p. 33, pozvaná prednáška   
   
   
**25.) Interakcia magnetických kvapalín s elektromagnetickým poľom** *(Interaction of magnetic fluids with electromagnetic field)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Milan Timko |
| **Trvanie projektu:** | 1.1.2016 / 31.12.2019 |
| **Evidenčné číslo projektu:** | 2/0141/16 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** |  |

*Dosiahnuté výsledky:*   
Magnetozomy boli izolované z baktérii Magnetospirillum magneticum strain AMB-1 v dvoch veľkostiach a síce štandardnej veľkosti po kultivácii a ďalšie skrátené pôsobením mechanického efektu sonifikácie. Magnetické vlastnosti magnetozomov boli analyzované a porovnané v AC a DC magnetickom poli kvôli vyhodnoteniu kvazistatických hysteréznych slučiek (energetické straty) a kalorimetrických hyperermických meraní (špecifické absorpčné straty). Dosiahnuté výsledky poukázali na fakt, že vzorky po sonifikácii teda s menším priemerom majú nižšie energetické ako aj absorpčné straty. Magnetické vlastnosti spolu so stabilnou geometriou otvárajú nové možnosti ich aplikácie v biomedicíne [1] a[2].   
V rámci tohto projektu sme navrhli tri magnetické obvody na generovanie striedavého magnetického poľa a síce dvojvrstvový solenoid, Helmholtzové cievky, induktor s feromagnetickým jadrom tvaru C a tiež systém na generovanie rotačného poľa [3]. Boli realizované teoretické výpočty na porovnanie dosahovanej intenzity magnetického poľa a tiež bola stanovená nehomogenita takéhoto poľa. V experimentalne časti boli realizované kalorimetrické merania a ich porovnanie na ferokvapaline na báze vody.   
Predmetom nášho výskumu bola magnetická kvapalina vyrobená na báze transformátorového oleja Mogul. Boli diskutované experimentálny dôkaz existencie štruktúrnych zmien v aplikovanom elektrickom poli a tiež dopady na jej viskozitu. Bolo ukázané, že magnetické nanočastice podliehajú elektrickej polarizácii čo má za následok elektrickú dipol-dipolovú interakciu a agregáciu nanočastíc. Kvalitatívne a kvantitatívne skúmanie štruktúry magnetickej kvapaliny a viskozity pri pôsobení elektrického poľa môže prispieť k vysvetleniu nezvyčajných dielektrických vlastnosti magnetickej kvapaliny a pomôcť k novým možnostiam ich aplikácie vo vysokovýkonových zariadeniach [4].   
Skúmali sme tiež dielektrickú odozvu čistého oleja a magnetickej kvapaliny vo frekvenčnom pásme od 1 mHz do 250 kHz. Základným výsledkom tohto štúdia je pozorovaný vplyv magnetického poľa na akumuláciu priestorového náboja pri elektródach a pokles dielektrickej permitivity v celom frekvenčnom pásme pri naloženom magnetickom poli [5].   
   
[1] Molcan, M., Gojzewski, H., Skumiel, A., Dutz, S., Kovac, J., Kubovcikova, M., Kopcansky, P., Vekas, L., Timko, M., Energy losses in mechanically modified bacterial magnetosomes (2016) Journal of Physics D: Applied Physics, 49 (36), art. no. 365002.   
[2] Molcan, M., Petrenko, V.I., Avdeev, M.V., Ivankov, O.I., Garamus, V.M., Skumiel, A., Jozefczak, A., Kubovcikova, M., Kopcansky, P., Timko, M., Structure characterization of the magnetosome solutions for hyperthermia study (2016) Journal of Molecular Liquids, . Article in Press.   
[3] Skumiel, A., Leszczyński, B., Molcan, M., Timko, M., The comparison of magnetic circuits used in magnetic hyperthermia   
(2016) Journal of Magnetism and Magnetic Materials, 420, pp. 177-184.   
[4] M. Rajnak, M. Timko, P. Kopcansky, K. Paulovicova, J. Tothova, J. Kurimsky, B. Dolnik, R. Cimbala, M. V. Avdeev, V. I. Petrenko, A. Feoktystov et al., “Structure and viscosity of a transformer oil-based ferrofluid under an external electric field,” J. Magn. Magn. Mater. in press, online 4 October 2016, http://dx.doi.org/10.1016/j.jmmm.2016.10.008   
[5] Michal Rajnak, Bystrik Dolnik, Juraj Kurimsky, Roman Cimbala, Peter Kopcansky,Milan Timko, Electrode polarization and unusual magnetodielectric effect in a transformer oil-based magnetic nanofluid thin layer, J Chem Phys 146 (1), 014704. 2017 Jan 07, DOI: 10.1063/1.4973545   
   
**26.) Prirodzené užívateľské rozhranie na báze algoritmov spracovania RGB-D obrazu s využitím v biomedicíne** *(Natural User Interface based on RGB-D Image Processing Algorithms and their Application in Biomedicine)*

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| **Zodpovedný riešiteľ:** | Zoltán Tomori |
| **Trvanie projektu:** | 1.1.2016 / 31.12.2018 |
| **Evidenčné číslo projektu:** | VEGA 2/0086/16 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA: 4560 € |

*Dosiahnuté výsledky:*   
konferenčné príspevky   
Z. Tomori, P. Keša, M. Nikorovič, J. Kaňka, and P. Zemánek, "Semi-automated sorting using Holographic Optical Tweezers remotely controlled by eye tracking camera," in 20th Slovak - Czech - Polish Optical Conference On Wave and Quantum Aspects of Contemporary Optics, Jasná, Slovakia, 2016, p. 11.   
   
Z. Tomori, P. Keša, and M. Antalík, "Automated Particles Micromanipulation using Holographic Optical Tweezers," in New trends in chemistry, research and education at Faculty of Sciences of P. J. Šafárik University Košice 2016, Kosice, Slovakia, 2016, p. 5.   
   
M. Nikorovic, P. Takac, and Z. Tomori, "Rehabilitation games exploiting augmented reality and depth-sensing cameras," in Spring Conference on Computer Graphics SCCG 2016, Smolenice, 2016, pp. 31-32.   
   
M. Nikorovič, "Interpolácia obrazu pomocou parametrického modelu premietnutej roviny," in Jarná škola doktorandov, Liptovský Ján, 2016, pp. 163-168.   
   
**27.) Supramolekulárne komplexy biomakromolekúl** *(Supramolecular complexes of biomacromolecules)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Eva Valušová |
| **Trvanie projektu:** | 1.1.2016 / 31.12.2019 |
| **Evidenčné číslo projektu:** | 2/0038/16 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** |  |

*Dosiahnuté výsledky:*   
Publikácia ADCA:   
M. Šimšíková, M. Bartoš, P. Keša, T. Šikola: Green approach for preparation of reduced graphene oxide decorated with gold nanoparticles and its optical and catalytic properties. Materials Chemistry and Physics 2016, Vol. 177, s. 339-345, IF 2.101   
   
Konferenčné príspevky:   
M. Kvaková, J. Kudláčová, P. Keša, M. Antalík: Porovnanie vlastností zlatych nanoklastrov pokrytých BSA a samotným BSA. In: XXV. Biochemický sjezd České společnosti pro biochemii a molekulární biologii a Slovenskej spoločnosti pre biochémiu a molekulárnu biológiu : sborník přednášek a posterů, Praha. 2016. - ISBN 9788027003310. - S. 208.   
   
Z. Tomori, P. Keša, and M. Antalík: Automated Particles Micromanipulation using Holographic Optical Tweezers. In: New Trends in Chemistry : Trends in chemistry, research and education at Faculty of Sciences of P.J. Šafárik University Košice : book of abstarcts. Košice. 2016. - ISBN 9788081524578. - S. 5.   
   
M. Kvaková, M. Suváková, M. Antalík: Main Differences, Properties and Utilization of Noble Metal Nanoparticles and Nanoclusters. In: New Trends in Chemistry : Trends in chemistry, research and education at Faculty of Sciences of P.J. Šafárik University Košice : book of abstarcts. Košice. 2016. - ISBN 9788081524578. - S. 27.   
   
M. Kvaková, J. Kudláčová, M. Antalík: Nanoclusters formation influence on properties of BSA. In: 4th Conference on Proteins : Naše proteíny 2016 — Štruktúra a funkcia : book of abstracts. Bratislava, 2016. - ISBN 9788097161712. - S. 40   
   
M. Kvaková, J. Kudláčová, P. Keša, M. Antalík: Vplyv tvorby nanoklastrov zo vzácnych kovov na vlastnosti proteínov. In: Preveda : Interaktívna konferencia mladých vedcov : [VIII.] ročník : 5.5.-6.6.2016 [elektronický zdroj]. - Banská Bystrica 2016. - ISBN 9788097236007. - abstrakt no. 1422   
   
**28.) Štúdium magnetických vlastností vybraných multiferoických materiálov na báze oxidov 3d kovov** *(Magnetic properties of selected 3d metal-oxides based multiferroics)*

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| **Zodpovedný riešiteľ:** | Mária Zentková |
| **Trvanie projektu:** | 1.1.2016 / 31.12.2018 |
| **Evidenčné číslo projektu:** | 2/0132/16 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** |  |

*Dosiahnuté výsledky:*   
1.Mihalik Matus, Jaglicic Z., Fitta M., Kavecansky V., Csach K., Budziak A. Briancin J., Zentkova M., Mihalik M. :Structural and magnetic study of PrMn1-xFexO3 compounds, JOURNAL OF ALLOYS AND COMPOUNDS, Vol.687 Pages: 652-661, DOI: 10.1016/j.jallcom.2016.06.177,Published: DEC 5 2016   
2. Zentkova M., Mihalik Marian, Mihalik, Matus, Sirenko V. , Balbashov AM., Kvetkova, L., Koval V., Vyrostkova A.,Briancin J.,Wang X.,Kamenev K.:Preparation and physical properties of M-type hexaferrite SrCo2Ti2Fe8O19, FERROELECTRICS, Vol. 499 Issue: 1 Pages: 1-8 Part: 3 ,   
DOI: 10.1080/00150193.2016.1170565, Published: 2016   
   
   
**Programy: APVV**

**29.) Dizajn štruktúry a funkčných vlastností magneticky mäkkých kompozitných materiálov na báze 3-d prechodných kovov** *(Design of the structure and the functional properties of soft magnetic 3-d transitions metals based composites)*

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| **Zodpovedný riešiteľ:** | Marianna Baťková |
| **Trvanie projektu:** | 1.7.2016 / 31.12.2019 |
| **Evidenčné číslo projektu:** | APVV-15-0115 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Prírodovedecká fakulta UPJŠ, Košice |
| **Počet spoluriešiteľských inštitúcií:** | 4 - Slovensko: 4 |
| **Čerpané financie:** | APVV: 1858 € |

*Dosiahnuté výsledky:*   
V rámci výskumu magneticky mäkkého kompozitného materiálu FeSi/Mn0.8Zn0.2Fe2O4 bola pomocou AFM/MFM mikroskopie študovaná doménová štruktúra FeSi častíc, ako aj distribúcia feritu Mn0.8Zn0.2Fe2O4 v tomto kompozite. Vďaka sofistikovanému postupu využívajúcemu technológiu na báze SEM/FIB, ktorým bola z materiálu odstránená povrchová vrstva s doménovou štruktúrou ovplyvnenou mechanickým zásahom, bolo možné získať neskreslený MFM záznam doménovej štruktúry FeSi častíc. Výsledky pozorovaní študovaného kompozitu FeSi/Mn0.8Zn0.2Fe2O4 boli prezentované na medzinárodnej konferencii CSMAG (16th Czech and Slovak Conference on Magnetism, 13-17 jún 2016, Košice, SR).   
   
**30.) Masívne supravodiče** *(Bulk Superconductors)*

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| **Zodpovedný riešiteľ:** | Pavel Diko |
| **Trvanie projektu:** | 1.10.2013 / 30.9.2017 |
| **Evidenčné číslo projektu:** | APVV-0330-12 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | APVV: 57875 € |

*Dosiahnuté výsledky:*   
D. Volochová, V. Kavečanský, V. Antal, P. Diko, X. Yao, Thermal stability of NdBCO/YBCO/MgO thin film seeds, SUPERCONDUCTOR SCIENCE & TECHNOLOGY 29 (2016) 044004, IF 2.717   
   
W. Zhao, Y. Shi, M. Radušovská, A. R. Dennis, J. H.Durrell, P. Diko, D. A. Cardwell, Comparison of the Effects of Platinum and CeO2 on the Properties of Single Grain, Sm-Ba-Cu-O Bulk Superconductors, SUPERCONDUCTOR SCIENCE & TECHNOLOGY 29 (2016) 125002, IF 2.717   
   
M. Muralidhar, N. Ide, M. R. Koblischka, P. Diko, K. Inoue, M. Murakami, Microstructure, critical current density and trapped field experiments in IG-processed Y-123, SUPERCONDUCTOR SCIENCE & TECHNOLOGY 29 (2016) 054003, IF 2.717   
   
M. Muralidhar, N. Kenta, XL. Zeng, M. R. Koblischka, P. Diko, M. Murakami, Record critical current densities in IG processed bulk YBa2Cu3Oy fabricated using ball-milled Y2Ba1Cu1O5 phase, PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE 213 (2016) 443-449, IF 1.648   
   
M. Radušovská, D. Volochová, V. Antal, S. Piovarči, P. Diko, Growth conditions and properties of Y123/Y211 and Y123/Y2O3 bulks. Journal of Physics: Conference Series. - vol. 695, issue 1, 17. March 2016. ISSN 17426588.   
   
L. Vojtkova, P. Diko and D. Volochová, Melting of SmBa2Cu3O7-y-seeds during preparation of YBCO Bulk Superconductors by Infiltration Growth Method. Journal of Physics: Conference Series 695 (2016) 012011   
   
M. Miryala; M. Higuchi; M. Jirsa; P. Diko; I. Kokal; M. Murakami, 1MOr3A-03. Improved critical current densities of bulk MgB2 using carbon-coated amorphous boron ASC 2016 Conference Program, September 03 - 09, 2016   
   
P. Diko, M. Radušovská, S. Piovarči, C.-J. Kim, B.-H. Jun, S.-D. Park, ISS2016, Microstructure and Trapped Field of YBCO Bulk Superconductors Fabricated by Interior Seeding Tokyo International Forum, Japan, December 13-15, 2016.   
   
P. Diko, M. Radušovská, S. Piovarči, C.-J. Kim, B.-H. Jun, S.-D. Park, M. Muralidhar, Microstructure of IS YBCO Bulk Superconductors, Symposium on Materials for Energy and Environment Sustainability, December 16th, 2016 at Shibaura Institute of Technology, Tokyo, Japan.   
   
   
**31.) Kolektívne javy vo viazaných elektrónových a spinových systémoch** *(Collective phenomena in coupled electron and spin systems)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Pavol Farkašovský |
| **Trvanie projektu:** | 1.10.2013 / 31.12.2016 |
| **Evidenčné číslo projektu:** | APVV-0097-12 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** |  |

*Dosiahnuté výsledky:*   
Publikacie:   
1. Pavol Farkasovsky, Enhancement of the d-wave pairing correlations by charge and spin ordering in the spin-one-half Falicov-Kimball model   
with Hund and Hubbard coupling, EPL, 115 (2016) 37006.   
2. Pavol Farkasovsky, Influence of Spin Ordering on Superconducting   
Correlations in the Spin-One-Half Falicov-Kimball Model   
with Hund and Hubbard Coupling, J. Supercond. Nov. Magn.   
DOI 10.1007/s10948-016-3889-0   
   
**32.) Nanočastice v anizotrópnych systémoch**  *(Nanoparticles in anisotropic systems)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Peter Kopčanský |
| **Trvanie projektu:** | 1.7.2016 / 30.6.2020 |
| **Evidenčné číslo projektu:** | APVV-15-0453 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** |  |

*Dosiahnuté výsledky:*   
1.Veronika Gdovinová, NatáliaTomašovičová, Ivan Batko, Marianna Batková, Lucia Balejčíková, Vasyl M.Garamus, Viktor I.Petrenko, Mikhail V.Avdeev, Peter Kopčanský, Interaction of magnetic nanoparticles with lysozyme amyloid fibrils, Journal of Magnetism and Magnetic Materials   
http://dx.doi.org/10.1016/j.jmmm.2016.09.035   
   
Študovali sme interakciu lyzozýmových amyloidných fibríl a magnetických nanočastíc pomocou metodík AFM a SAXS. Bolo pozorované absorbovanie magnetických nanočastíc na povrchu lyzozýmových fibríl. Štruktúra fibríl- diameter a dĺžka sa zmenila po dopovaní magnetickými nanočasticami.   
   
2.P. Kesa, M. Bhide, V. Lysakova, A. Musatov: Subunit analysis of mitochondrial cytochrome c oxidase and cytochrome bc1 by reversed-phase high-performance liquid chromatography. In: Analytical Biochemistry 516 (2017) 6-8 ( I.F. 5 years = 2.474).   
   
Bola zavedená metóda vysokotlakovej chromatografie, ktorá, ako to aj bolo plánované v rámci projektu – bude použitá na separáciu rôznych agregátov (oligomérov, protofilamentov a fibríl) rôznych amyloidogénnych proteínov. Na testovanie metódy boli použité multi-subjednotkové mitochondriálne proteíny a výsledky boli doplnené o údaje z hmotnostnej spektrometrie (spolupráca s UVLaF, Košice).   
   
3.K. Siposova, T. Kozar, A. Musatov: Interaction of Nonionic Detergents with the Specific Sites of Lysozyme Amyloidogenic Region - Inhibition of Amyloid Fibrillization. Submitted to Colloids and Surface B: Biointerfaces – accepted   
   
Testovali sme účinok neiónových detergentov na amyloidnú fibrilizáciu lyzozýmu. Bolo zistené, že študované neiónové detergenty – Triton X-100 a dodecyl maltozid dokážu efektívne inhibovať fibrilizáciu lyzozýmu. Toto pozorovanie je veľmi dôležité, keďže v rámci projektu bolo v cieľoch projektu využitie neiónových detergentov na stabilizáciu Fe3O4-nanočastíc, a takto pripravený komplex následne použiť na inhibovanie fibrilizácie proteínov.   
   
   
4.P. Kopčanský, M. Timko, I.P. Studenyak, O.V. Kovalchuk, I.V. Oleinikova, T.M. Kovalchuk: Dielectric properties of 6CHBT liquid crystals with carbon nanotubes modified by COOH group and nanocomposites on their base, J. Molecular Liquids 227 (2017) 61-65   
   
Bol študovaný vplyv dopovania kvapalného kryštálu 6CHBT uhlíkovými nanorúrkami na dielektrické vlastnosti tohto kompozitného systému. Dosiahnuté výsledky ukázali, že v dôsledku dopovania dochádza k poklesu vodivosti v takomto kompozitnom systéme, a že jej veľkosť závisí na frekvencii aplikovaného napätia.   
   
Medzinárodný patent:   
Method of electrical conductivity increase of 6CHBT nematic liquid crystal by introduction of nanoparticles Cu6PS5I superionic conductor: patent of Ukraine No. 111241, MPK G01R 3/00, G02F 1/13 (2016.01) / I.P. Studenyak, O.V. Kovalchuk, A.V. Bendak, V.I. Studenyak, P. Kopčanský, M. Timko. – ?u201603325; Decl. 31.03.2016; Publ. 10.11.2016, Bull. ?21. – 2 p.   
   
   
**33.) Nízkoenergetické kozmické žiarenie, supratermálne častice a kozmické počasie** *(Low energy cosmic rays, suprathermal particles and space weather)*

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| **Zodpovedný riešiteľ:** | Karel Kudela |
| **Trvanie projektu:** | 1.7.2016 / 27.12.2017 |
| **Evidenčné číslo projektu:** | APVV-15-0194 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** |  |

*Dosiahnuté výsledky:*   
1. M. Kancírová, K. Kudela, A.D. Erlykin, A.W. Wolfendale: 2016, Relevance of long term time – Series of atmospheric parameters at a mountain observatory to models for climate change, Journal of Atmospheric and Solar-Terrestrial Physics, 148, 1–12, published October 2016, http://dx.doi.org/10.1016/j.jastp.2016.08.002.   
   
2. M. Kákona, O. Ploc, D. Kyselová, J. Kubančák, R. Langer, K. Kudela: 2016, Investigation on contribution of neutron monitor data to estimation of aviation doses, Life Sciences in Space Research 11 (2016) 24–28, http://dx.doi.org/10.1016/j.lssr.2016.11.001   
   
3. K. Kudela: 2016, On low energy cosmic rays and energetic particles near Earth, Contrib. Astron. Obs. Skalnaté Pleso 46, 15 – 70, (2016), https://www.ta3.sk/caosp/Eedition/FullTexts/vol46no1/pp15-70.pdf   
   
4. K. Kudela: 2016, Kvázi-periodické variácie kozmického žiarenia na zemskom povrchu: niekoľko poznámok, Zborník referátov z 23. celoštátneho slnečného seminára, Liptovský Mikuláš 2016, Ivan Dorotovič (ed.), SÚH Hurbanovo, 27.pdf (vydané na DVD, ISBN: 978-80-85221-92-3), http://www.suh.sk/obs/slnsem/23css/27w.pdf   
   
5. Baše, J., Chum, J., Kollárik, M., Kudela, K., Langer, R., Strhárský, I, Štefánik, Cosmic ray short time increases during intervals with strong electric field at Lomnický štít: first experience, TEPA 2016, Oct. 3-5, 2016, Armenia, Program and abstracts, p. 18, http://crd.yerphi.am/Conferences/tepa2016/files/abstracts%20-end2016-02-10-low.pdf. Zaslané do recenzovaného zborníka   
   
**34.) Anizotropia magneticko - elektrickej väzby v manganitoch vzácnych zemín**  *(Anisotropy of magnetoelectric coupling in rare-earth)*

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| **Zodpovedný riešiteľ:** | Marián Mihalik |
| **Trvanie projektu:** | 1.1.2016 / 31.12.2017 |
| **Evidenčné číslo projektu:** | SK-PT-2015-0030 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** |  |

*Dosiahnuté výsledky:*   
Prednáška na medzinárodnej konferencií CSMAG 2016:   
MAGNETIC PHASE DIAGRAM OF TbMn1-xFexO3 (0 <= x <= 1) SUBSTITUTIONAL SYSTEMM. Mihalik jr., M. Mihalik, Z. Jagličić, R. Vilarinho, J. Agostinho Moreira, A. Almeida and M. Zentková   
   
M. Mihalik jr., M. Mihalik, Z. Jagličić, R. Vilarinho, J. Agostinho Moreira, E. Queiros, P.B. Tavares, A. Almeida, M. Zentková, Magnetic phase diagram of the TbMn1?xFexO3 solid solution system, Physica B 506 (2017) 163–167(1.352 - IF 2016)   
   
   
**35.) Grafénová nanoplatforma na detekciu rakoviny** *(Graphene-based nanoplatform for detection of cancer )*

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| **Zodpovedný riešiteľ:** | Mária Omastová |
| **Zodpovedný riešiteľ v organizácii SAV:** | Martina Koneracká |
| **Trvanie projektu:** | 1.7.2015 / 30.6.2019 |
| **Evidenčné číslo projektu:** | APVV-14-0120 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** |  |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | APVV: 14044 € |

*Dosiahnuté výsledky:*   
V tomto roku naším cieľom bolo pokračovať v príprave a komplexnej charakterizácii amino modifikovaných nanočastíc (MFPLL). Podarilo sa pripraviť stabilné amino modifikované nanočastice s kladným zeta potenciálom a s hydrodynamickým rozmerom 100 nm. Ďaľšou našou úlohou bola imobilizácia protilátky na modifikované MFPLL. Monoklonová protilátka M75 (Ab) špecifická voči karbonickej anhydráze IX (CA IX), ktorá sa špecificky viaže iba na nádorové bunky exprimujúce CA IX , bola vybratá na ďalšie experimenty. Bola pripravená séria vzoriek, ktoré sa navzájom líšili nielen hmotnostným zastúpením jednotlivých reagentov (MFPLL, M75 a väzbového činidla karbodiimidu (CDI)), ale aj ich koncentráciou vo výslednom roztoku s úmyslom nájsť optimálny pomer pri ktorom sa naviaže najväčšie množstvo protilátky a zároveň vzorka bude stabilná. Protilátkou konjugovaná vzorka bola in vitro testovaná na Virologickom ústave SAV. Na dôkaz špecifickej väzby konjugovaných/funkcionalizovaných nanočastíc Ab-MFPLL a Ab-CDI-MFPLL na CA IX sa použila imunofluorescencia na fixovaných bunkách. Nepriama imunofluorescencia potvrdila, že sa protilátka M75 naviazaná na nanočastice Ab-MFPLL a Ab-CDI-MFPLL (5 ug/ml konjugovanej protilátky) viaže špecificky na CA IX antigén lokalizovaný na povrchu transfekovaných buniek C33 CA IX a neviaže sa na CA IX negatívne bunky.   
   
Publikácie:   
1. I. KHMARA, Iryna - KONERACKA, Martia - KUBOVCIKOVA, Martina - ZAVISOVA, Vlasta - ANTAL, Iryna - CSACH, Kornel - KOPCANSKY, Peter - VIDLIČKOVÁ, Ivana - CSÁDEROVÁ, Lucia - PASTOREKOVÁ, Silvia - ZAŤOVIČOVÁ, Miriam. Preparation of poly-L-lysine functionalized magnetic nanoparticles and their influence on viability of cancer cells, JMMM – accepted: 1 November 2016, http://dx.doi.org/10.1016/j.jmmm.2016.11.014   
   
2. KUBOVCIKOVA , Martia - GAPON, Igor V. - ZAVISOVA, Vlasta - KONERACKA, Martina - PETRENKO, Viktor I. - SOLTWEDEL, Olaf - ALMASY, Lászlo – AVDEEV , Mikhail V. – KOPCANSKY, Peter. On the adsorption properties of magnetic fluids: Impact of bulk structure, Journal of Magnetism and Magnetic Materials– accepted: 19 October 2016 http://dx.doi.org/10.1016/j.jmmm.2016.10.104   
   
3. TOMASOVICOVA, Natália - KHMARA, Iryna - KONERACKA, Martina - ZAVISOVA, Vlasta - KUBOVCIKOVA, Martina - KOVAC, Jozef - MUCKOVA, Marta - KOPCANSKY Peter. Elimination of magnetic nanoparticles with various surface modifications from the bloodstream in vivo, Acta Physica Polonica A – accepted.   
   
4. KHMARA, Iryna - ZAVIŠOVA, Vlasta. Characterization of magnetic particles coated by poly-L-lysine, Študentská vedecká konferencia Fakulty prírodných vied UKF v Nitre 2016 FYZIKA A CHÉMIA. ISBN: 978-80-558-1009-6 Str. 175-181.   
   
   
**36.) Účinok nanoenkapsulovaného simvastatínu na kardiovaskulárny systém pri experimentálnom metabolickom syndróme** *(Effects of nanoencapsulated simvastatin on cardiovascular system in experimental metabolic syndrome)*

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| **Zodpovedný riešiteľ:** | Oľga Pecháňová |
| **Zodpovedný riešiteľ v organizácii SAV:** | Vlasta Závišová |
| **Trvanie projektu:** | 1.7.2015 / 30.6.2019 |
| **Evidenčné číslo projektu:** | APVV-14-0932 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** |  |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | APVV: 11999 € |

*Dosiahnuté výsledky:*   
Magnetický cielený transport liečiv používa magnetické nanočastice na transport liečiv, ako sú cytostatiká a i., ktoré sa krvou dostávajú pôsobením vonkajšieho magnetického poľa k cielenému postihnutému tkanivu. Z tohto dôvodu je potrebné, aby magnetické kvapaliny zotrvávali v krvnom systéme čo najdlhšie pre možnosť ich transportu. Cieľom štúdie [1] bolo testovanie systémovej toxicity/kinetiky magnetických kvapalín u myší. Hodnotený bol magnetický moment v krvi zvierat v určených časových intervaloch po aplikácii magnetických kvapalín s rôznym obsahom zložiek. Pre tento zámer boli chemickou cestou pripravené magnetické nanočastice s rozmerom magnetického jadra približne 10 nm. Na modifikáciu povrchu magnetických nanočastíc boli použité rôzne biokompatibilné látky ako napr. polyetylénglykol (PEG), dextrán (DEX) a polyvinylpyrolidón (PVP). Pripravené magnetické kvapaliny boli charakterizované rôznymi technikami. Magnetizácia vzoriek krvi po aplikácii magnetických kvapalín klesala s časom. Magnetizácia krvi s nemodifikovanými nanočasticami klesla na nulu jednu hodinu po aplikácii. V prípade modifikovaných nanočastíc magnetizácia bola vyššia ako nula dokonca 3 hodiny po aplikácii.   
   
V práci [2] bola potvrdená rozdielna štruktúra magnetických nanočastíc v pôvodnej magnetickej kvapaline (MK) a polyetylénglykolom (PEG) modifikovanej MK. PEG modifikácia spôsobuje spájanie malých agregátov nanočastíc do veľkých. Jednotlivé neagregované nanočastice v MK sú prednostne adsorbované na povrchu oxidovaného kremíka a tvoria jednu adsorpčnú vrstvu. Na druhej strane PEGom modifikované nanočastice vytvárajú veľké rozvinuté agregáty, ktoré nie sú adsorbované na povrchu.   
   
Publikácie:   
   
1.TOMASOVICOVA, Natália - KHMARA, Iryna - KONERACKA, Martina - ZAVISOVA, Vlasta - KUBOVCIKOVA, Martina - KOVAC, Jozef - MUCKOVA, Marta - KOPCANSKY Peter. Elimination of magnetic nanoparticles with various surface modifications from the bloodstream in vivo, Acta Physica Polonica A – prijaté.   
   
2.KUBOVCIKOVA , Martina - GAPON, Igor V. - ZAVISOVA, Vlasta - KONERACKA, Martina - PETRENKO, Viktor I. - SOLTWEDEL, Olaf - ALMASY, Lászlo – AVDEEV , Mikhail V. – KOPCANSKY, Peter. On the adsorption properties of magnetic fluids: Impact of bulk structure, Journal of Magnetism and Magnetic Materials – prijaté: 19 Oktober 2016 http://dx.doi.org/10.1016/j.jmmm.2016.10.104   
   
3.KHMARA, Iryna - KONERACKA, Martina - KUBOVCIKOVA, Martina - ZAVISOVA, Vlasta - ANTAL, Iryna - CSACH, Kornel - KOPCANSKY, Peter - VIDLIČKOVÁ, Ivana - CSÁDEROVÁ, Lucia - PASTOREKOVÁ, Silvia - ZAŤOVIČOVÁ, Miriam. Preparation of poly-L-lysine functionalized magnetic nanoparticles and their influence on viability of cancer cells, JMMM – prijaté: 1 November 2016, http://dx.doi.org/10.1016/j.jmmm.2016.11.014   
   
4.KHMARA, Iryna - ZAVIŠOVA, Vlasta. Characterization of magnetic particles coated by poly-L-lysine, Študentská vedecká konferencia Fakulty prírodných vied UKF v Nitre 2016 FYZIKA A CHÉMIA. ISBN: 978-80-558-1009-6 Str. 175-181.   
   
**37.) Prechod supravodič - izolant** *(Superconductor - insulator transition)*

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| --- | --- |
| **Zodpovedný riešiteľ:** | Pavol Szabó |
| **Trvanie projektu:** | 1.7.2015 / 30.6.2019 |
| **Evidenčné číslo projektu:** | APVV-14-0605 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 2 - Slovensko: 2 |
| **Čerpané financie:** |  |

*Dosiahnuté výsledky:*   
Pomocou subkelvinového rastrovacieho tunelového mikroskopu STM sme študovali potlačenie supravodivosti v homogénne neusporiadaných ultratenkých filmoch MoC. Zistili sme, že supravodivý stav zostáva priestorovo homogénny, teda veľkosť energetickej medzery ani iné spektrálne charakteristiky nevariujú v priestore ani na najtenších filmoch s hrúbkou 3 nm, pokiaľ je hrúbka konštantná. Priestorová homogenita supravodivých charakteristík je v protiklade so situáciou v ultratenkých homogénne disorderovaných filmoch z TiN, kde sa objavuje tzv. emergentná granularita, teda variácie energetickej medzery v oblastiach veľkosti koherenčnej dĺžky [B. Sacepe et al. Nature Phys. 2012]. V našich filmoch hrúbky 30 až 3 nm sme pozorovali pokles kritickej supravodivej teploty Tc z 8,5 až na 1,2 K. Veľkosť energetickej medzery však perfektne sleduje veľkosť Tc. Teda veľkosť energetickej medzery a aj supravodivého parametra usporiadania ide do nuly, keď sa Tc blíži do nuly. To podporuje fakt, že v nesupravodivom stave už Cooperove páry (ani bez globálnej koherencie) neexistujú. Z toho všetkého vyplýva, že v systéme sa realizuje dvojstupňový fermiónový scenár prechodu zo supravodivého do izolačného stavu: Najprv v dôsledku narastajúcej neusporiadanosti klesá Tc a energetická medzera a systém prejde do stavu (zlého) kovu. Neskôr pri ďalšom zvyšovaní neusporiadanosti môže v dôsledku Andersonovej lokalizácie kov prejsť do izolačného stavu s lokalizovanými fermiónmi. Takýto scenár bol experimentálne na lokálnej úrovni (s atomárnym priestorovým rozlíšením) pozorovaný prvýkrát [1].   
   
Nízkorozmerné, silne neusporiadané supravodiče, ktoré sú blízko prechodu do izolačného stavu sú veľmi ovplyvnené kvantovým uväznením (confinement) a koherenčnými efektami. Na silne neusporiadanom bórom dopovanom supravdivom diamante sme pozorovali viaceré píky v teplotnej závislosti odporu a tepelnej kapacity (obr. 5). Tieto efekty sú interpretované ako dôsledok intrinzickej a extrinziskej granularity, ktoré spôsobujú uväznenie supravodivého kondenzátu a koherenčné javy. Výsledky môžu slúžiť ako referencia pre pochopenie supravodivosti v iných granulovaných systémoch. Granulárna neusporiadanosť silne ovplyvňuje vlastnosti supravodivého diamantu, ktorý má silný aplikačný potenciál v elektronike [2].   
   
V polovodivom systéme TiSe2 existuje usporiadanie vĺn nábojovej hustoty pod cca 200 K. Pomocou dopovania / interkalovania meďou možno systém previesť z polovodivého do supravodivého (kovového) stavu. Vplyv týchto dvoch konkurenčných usporiadaní je predmetom rozsiahlych štúdií, keďže takáto súťaž medzi rôznymi kvantovomechanickými základnými stavmi existuje v mnohých fyzikálne zaujímavých systémoch. V tejto práci sme pre celú triedu dopovaní od poddopovaného CuxTiSe2 blízko polovodivého stavu až do predopovaných vzoriek pozorovali nový jav, extrémne silné uzamknutie supravodivých vírov vo van der waalsovsky slabo viazaných kryštalických rovinách (ab) a to aj v magnetických poliach silne odklonených od týchto rovín. Pre takéto uzamknutie neexistuje zjavný dôvod ako vysoká anizotropia alebo extrémne malá koherenčná hĺbka, ktorá by umožňovala uzamknúť víry medzi jednotlivými atomárnymi rovinami systému. Špekulatívnym vysvetlením je existencia hypotetickej modulácie supravodivého parametra usporiadania v smere kolmom na slaboviazané roviny. Najnovšie experimenty, vrátane našich, takúto možnosť naznačujú, keďže sa zdá, že vlny nábojovej hustoty pod vplyvom dopovania meďou vytvoria domény, v ktorých by takáto modulácia mohla existovať. Experimenty pokračujú [3,4].   
   
V mnohopásovom supravodiči Bi2Pd sme pomocou viacerých experimentálnych techník zistili, že masívna časť vzorky sa chová ako štandardný BCS supravodič, zatiaľ čo na povrchu môžu existovať topologicky chránené stavy [5].   
   
Pomocou pulzno-demodulačnej techniky, ktorá umožňuje merať rezonančnú frekvenciu s presnosťou 10ppb sme študovali makroskopické rezonátory na báze piezokryštálov vo vákuu a pri nízkych teplotách. U všetkých meraných vzoriek s rôznymi hodnotami rezonančnej frekvencie (32-100kHz) bola detegovaná reprodukovateľná teplotne závislá zmena frekvencie v teplotnom rozsahu od 20mK-1K. Vypracovali sme dva fyzikálne modely, ktoré môžu vysvetliť pozorované javy. Prvý model je založený na vplyve dlho-vlnových akustických fonónov a dlho-vlnových plazmónov v systéme valenčných elektrónov piezo-rezonátora na jeho rezonančné charakteristiky. Druhý model je založený na prítomnosti van der Waalsovskej interakcie medzi oscilujúcimi elektrickými dipólmi v piezo-rezonátore, pričom táto interakcia zachováva fázovú koherenciu oscilácií. Predbežné výsledky boli publikované v práci [6].   
   
Podrobne sme študovali vplyv substitúcie zmiešanovalenčného iónu samária Sm2,5+ iónmi La3+, Eu2+, Yb2+, Sr2+ či Sm-vakanciami na 3D topologický Kondov izolátor SmB6 meraním elektrického magnetotransportu (Obr. 10a)) [7], pričom sme po prvýkrát ukázali ako sa správa veľkosť hybridizačnej medzery so zmenou koncentrácie substituujúceho prvku (Obr. 10b)). Ďalej sa náš výskum zaoberal potlačením supravodivosti v systéme LuxZr1-xB12 vplyvom vzniku spinovo-polarizovaných magnetických nanodomén v okolí nemagnetického iónu Lu3+ [8]. Štúdium vplyvu magnetického poľa a teploty na fázový diagram feromagnetu Mn1-xFexSi so špirálovým usporiadaním spinov poukázalo najmä na vznik novej spinovo-polarizovanej (feromagnetickej) fázy pri veľmi nízkych teplotách pod 0.6 K [9].   
   
   
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**38.) Atomárna štruktúra a unikátne vlastnosti intermetalík, amorfných, nanokryštalických a komplexných kovových zliatin** *(Atomic structure and exceptional properties of intermetallics, amorphous, nanocrystalline and complex metallic alloys)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Peter Švec |
| **Zodpovedný riešiteľ v organizácii SAV:** | Ivan Škorvánek |
| **Trvanie projektu:** | 1.7.2016 / 31.12.2019 |
| **Evidenčné číslo projektu:** | APVV-15-0621 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** |  |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | APVV: 17978 € |

*Dosiahnuté výsledky:*   
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 **39.) Obrazová analýza mikroskopických častíc pri automatizácii optických manipulačných techník aplikovateľných v mikro/nanorobotike.** *(Image analysis of microscopic particles in the automation of optical manipulation techniques applicable in mikro/nanorobotics.)*

|  |  |
| --- | --- |
| **Zodpovedný riešiteľ:** | Zoltán Tomori |
| **Trvanie projektu:** | 1.7.2016 / 31.12.2019 |
| **Evidenčné číslo projektu:** | APVV-15-0665 |
| **Organizácia je koordinátorom projektu:** | Áno |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | APVV: 24750 € |

*Dosiahnuté výsledky:*   
Publikácie:   
A. Matiašová, J. Ševc, Z. Tomori, Z. Gombalová, Š. Gedrová, and Z. Daxnerová, "Quantitative analyses of cellularity and proliferative activity reveals the dynamics of the central canal lining during postnatal development of the rat," Journal of Comparative Neurology, pp. n/a-n/a, 2016.   
 Pozvaná prednáška:   
Z. Tomori, P. Keša, and M. Antalík, "Automated Particles Micromanipulation using Holographic Optical Tweezers," in New trends in chemistry, research and education at Faculty of Sciences of P. J. Šafárik University Košice 2016, Kosice, Slovakia, 2016, p. 5.   
   
Podanie patentovej prihlášky: Z. Tomori. Spôsob interaktívnej kvantifikácie digitalizovaných 3D objektov pomocou kamery snímajúcej pohľad. ***Príloha C***   
**Publikačná činnosť organizácie** (*generovaná z ARL*)

**ADCA Vedecké práce v zahraničných karentovaných časopisoch – impaktovaných**

|  |  |
| --- | --- |
| ADCA01 | AABOUD, M. - AAD, G. - ABBOTT, B. - ABDALLAH, J. - ABDINOV, O. - BRUNCKO, Dušan - KLADIVA, Eduard - STRÍŽENEC, Pavol. Search for the Higgs boson produced in association with a W boson and decaying to four b-quarks via two spin-zero particles in pp collisions at 13 TeV eith the ATLAS detector. In European Physical Journal C, 2016, vol. 76, no. 11, art. no. 605. (4.912 - IF2015). (2016 - Current Contents, WOS, SCOPUS). ISSN 1434-6044. |
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| ADCA04 | AABOUD, M. - AAD, G. - ABBOTT, B. - ABDALLAH, J. - ABDINOV, O. - BRUNCKO, Dušan - KLADIVA, Eduard - STRÍŽENEC, Pavol. Search for scalar leptoquarks in pp collisions at root s=13 TeV with the ATLAS experiment. In New Journal of Physics, 2016, vol. 18, no. 9, art. no. 093016. (3.570 - IF2015). (2016 - Current Contents, WOS, SCOPUS). ISSN 1367-2630. |
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| ADCA23 | AABOUD, M. - AAD, G. - ABBOTT, B. - ABDALLAH, J. - ABDINOV, O. - BRUNCKO, Dušan - KLADIVA, Eduard - STRÍŽENEC, Pavol. Search for heavy long-lived charged R-hadrons with the Atlas detector in 3.2 fb\*1 of proton-proton collisions data at root s=13 TeV. In Physics Letters B, 2016, vol. 760, p. 647-665. (4.787 - IF2015). (2016 - Current Contents, WOS, SCOPUS). ISSN 0370-2693. |
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| ADMA01 | JÓZEFCZAK, Arkadiusz - HORNOWSKI, Tomasz - KRÓL, Anita - MOLČAN, Matúš - LESZCZYNSKI, Blažej - TIMKO, Milan. The Eﬀect of Sonication on Acoustic Properties of Biogenic Ferroparticle Suspension. In Archives of Acoustics, 2016, vol. 41, no. 1, p. 161-168. (0.661 - IF2015). ISSN 0137-5075. |

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| ADMB01 | ADZHEMYAN, L. Ts. - HNATIČ, Michal - KOMPANIETS, M.V. - LUČIVJANSKÝ, Tomáš - MIŽIŠIN, L. Numerical Calculation of Scaling Exponents of Percolation Process in the Framework of Renormalization Group Approach. In EPJ Web of Conferences, 2016, vol. 108, art. no. 02005. (2016 - SCOPUS). ISSN 2100-014X. |
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| ADMB07 | HNATIČ, Michal - EFERINA, E.G. - KOROLKOVA, A.V. - KULYABOV, D.S. - SEVASTYANOV, L.A. Operator Approach to the Master Equation for the One-Step Process. In EPJ Web of Conferences, 2016, vol. 108, art. no. 02027. (2016 - SCOPUS). ISSN 2100-014X. |
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| AFE01 | MEDVECKÁ, Zuzana - PRIBULOVÁ, Zuzana - SZABÓ, Pavol - KAČMARČÍK, Jozef - KLEIN, T. - LEVY-BERTRAND, F. - MARCENAT, C. - KARAPETROV, Goran - IAVARONE, M. - SAMUELY, Peter. Interplay of CDW and superconducting orders in copper vdoped TiSe2 single crystals. In Probing Superconductivity at the Nanoscale: New advances, saas-Fee, Switzerland, April 12-15, 2016 : COST MP-1201 NanoSC Workshop. - [S.l. : s.n], p. 20.(Probing Superconductivity at the Nanoscale: New advances : COST-MP-1201 NanoSC Workshop). |
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| AFE03 | SAMUELY, Peter - SZABÓ, Pavol - KAČMARČÍK, Jozef - ŽEMLIČKA, M. - GRAJCAR, M. Influence of magnetic field on the Altshuler-Aronov effect in homogeneously disordered ultrathin superconducting MoC films. In International Conference on: Nano confined superconductors and their application, Garmisch-Partenkirchen, 3-7 September 2016 : Program and Abstract Book. P. 32. - [S.l. : s.n.], 2016.(International Conference on: Nano confined superconductors and their application). |
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| AFG03 | BALÁŽ, Peter - ZORKOVSKÁ, Anna - ŠKORVÁNEK, Ivan - BALÁŽ, Matej - DUTKOVÁ, Erika - BUJŇÁKOVÁ, Zdenka - TRAJIC, Jelena - BRIANČIN, Jaroslav. Kinetics of solid state synthesis of quaternary Cu2FeSnS4 (stannite)) nanocrystals for solar energy applications. In 16th Czech and Slovak conference on magnetism : Book of abstracts. Košice, 13.-17.6.2016. - Košice : UPJŠ and ÚEF SAV, 2016. ISBN 978-80-971450-9-5.(Czech and Slovak conference on magnetism). |
| AFG04 | BUGÁROVÁ, Nikola - ŠPITÁLSKY, Zdenko - ŠIFFALOVIČ, Peter - BODIK, Michal - KONERACKÁ, Martina - ZAŤOVIČOVÁ, Miriam - OMASTOVÁ, Mária. Biosenzory na báze modifikovaného grafén oxidu. In Czech Chemical Society Symposium Series, 2016, roč.14, č. 5, s. 233. ISSN 2336-7202. Dostupné na internete: <www.ccsss.cz>. |
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| AFG06 | BULIAKOVÁ, Barbora - ŠELC, Michal - BÁBELOVÁ, Andrea - NÉMETHOVÁ, Veronika - RÁZGA, Filip - ZÁVIŠOVÁ, Vlasta - URSÍNYOVÁ, M. - MAŇKA, Ján - GÁBELOVÁ, Alena. Determination of nanoparticle uptake by flow cytometry and atomic absorption spectrometry. In ICOETOX IBMTOX : abstract book. - Porto, Portugalsko, 2016, p.50.(VEGA 2/0143/13 : Mechanizmus transportumagnet. nanočastíc oxidu železa do ľudských nádorových a normálnych (diploidných) buniek. VEGA 2/0152/13 : Rozvoj SQUID gradiometrických a susceptometrických metód pre bioaplikácie spojené s homeostázou železa. VEGA 2/0113/15 : Porovnanie mechanizmov účinku nanočastíc zlata a magnetitu na jednotlivé typy renálnych buniek. SASPRO 0084/01/02 : Vplyv nanočastíc oxidu železa a zlata na funkciu renálnych bunike. ICOETox : International Conference of Environmental and Occupational Health. IBAMTox : Ibero-American Meeting on Toxicology and Environmental Health). |

**AFH Abstrakty príspevkov z domácich konferencií**

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| AFH01 | BARTA, Andrej - CEBOVÁ, Martina - KLIMENTOVÁ, Jana - VRANKOVÁ, Stanislava - MATÚŠKOVÁ, Zuzana - REHÁKOVÁ, Radoslava - KOVÁCSOVÁ, Mária - ZÁVIŠOVÁ, Vlasta - KONERACKÁ, Martina - KOPČANSKÝ, Peter - PECHÁŇOVÁ, Oľga. Structural changes in myocardium and aorta after aliskiren-induced inhibition of renin-angiotensin-aldosterone system. In 2nd Joint Meeting of Slovak and Serbian Physiological Societies "Physiology without Frontiers", May 15-18, 2016, Smolenice. - Bratislava, 2016, s. 3. ISBN 978-80-971699-3-0.(APVV-0742-10 : Účinok aliskirénu viazaného na nanonosiče pri experimentálnej hypertenzii. APVV-14-0932 : Účinok nanoenkapsulovaného simvastatínu na kardiovaskulárny systém pri experimentálnom metabolickom syndróme. VEGA č. 2/0195/15 : Protektívny účinok NO a CO donorov pri experimentálnom infarkte myokardu s hypertenzívnymi komplikáciami. VEGA č. 2/0144/14 : Účasť HMGB1 proteínu v experimentálnom infarkte myokardu: ochrana vs. poškodenie myokardu). |
| AFH02 | BUJŇÁKOVÁ, Zdenka - ZORKOVSKÁ, Anna - KOVÁČ, Jozef. Mechanochemical preparation and magnetic properties of Fe3O4/ZnS nanocomposite. In 16th Czech and Slovak conference on magnetism : Book of abstracts. Košice, 13.-17.6.2016. - Košice : UPJŠ and ÚEF SAV, 2016. ISBN 978-80-971450-9-5.(Czech and Slovak conference on magnetism). |
| AFH03 | CSACH, Kornel - HURÁKOVÁ, Mária - JURÍKOVÁ, Alena - MIŠKUF, Jozef - OCELÍK, Václav - DE HOSSON, J. Th. M. Shear band morphology of indent region in Cu-based metallic glass. In Metallography´16 : 16th international symposium on metallography and materials science. Abstract booklet. Stará Lesná, 20.-22.4.2016. - Košice : HF TU, 2016, p. 122. ISBN 978-80-553-2547-7.(Metallography´16 : international symposium on metallography and materilas science). |
| AFH04 | HURÁKOVÁ, Mária - CSACH, Kornel - MIŠKUF, Jozef - JURÍKOVÁ, Alena - OCELÍK, Václav - DE HOSSON, J. Th. M. In-situ observation of crack propagation in amorphous ribbon. In Metallography´16 : 16th international symposium on metallography and materials science. Abstract booklet. Stará Lesná, 20.-22.4.2016. - Košice : HF TU, 2016, p. 55. ISBN 978-80-553-2547-7.(Metallography´16 : international symposium on metallography and materilas science). |
| AFH05 | JURÍKOVÁ, Alena - CSACH, Kornel - MIŠKUF, Jozef - HURÁKOVÁ, Mária - TABACHNIKOVA, E. D. - PODOLSKIY, A.V. Deformation and failure of ultrafine-grained Cu at subambient temperature. In Metallography´16 : 16th international symposium on metallography and materials science. Abstract booklet. Stará Lesná, 20.-22.4.2016. - Košice : HF TU, 2016, p. 116. ISBN 978-80-553-2547-7.(Metallography´16 : international symposium on metallography and materilas science). |
| AFH06 | KOVÁČ, František - PETRYSHYNETS, Ivan - MARCIN, Jozef - ŠKORVÁNEK, Ivan. Improvement of magnetic properties and crystallographic texture of Fe-Si steels by thermal processing in high magnetic field. In 16th Czech and Slovak conference on magnetism : Book of abstracts. Košice, 13.-17.6.2016. - Košice : UPJŠ and ÚEF SAV, 2016, p. 143. ISBN 978-80-971450-9-5.(Czech and Slovak conference on magnetism). |
| AFH07 | MIŠKUF, Jozef - CSACH, Kornel - JURÍKOVÁ, Alena - HURÁKOVÁ, Mária - MIŠKUF, Martin - TABACHNIKOVA, E. D. Indication of conchoidal fracture of Zr and Mg-based amorphous glass. In Metallography´16 : 16th international symposium on metallography and materials science. Abstract booklet. Stará Lesná, 20.-22.4.2016. - Košice : HF TU, 2016, p. 123. ISBN 978-80-553-2547-7.(Metallography´16 : international symposium on metallography and materilas science). |
| AFH08 | PODOLSKIY, A.V. - TABACHNIKOVA, E. D. - LAKTIONOVA, Marina - BEREZNAIA, N.A. - TIKHONOVSKY, M.A. - TORTIKA, A.S. - MIŠKUF, Jozef - CSACH, Kornel - JURÍKOVÁ, Alena - HURÁKOVÁ, Mária. Mechanical properties of the CoCrFeNiMnVx high-entropy alloy in temperature range 300-4.2 K. In Metallography´16 : 16th international symposium on metallography and materials science. Abstract booklet. Stará Lesná, 20.-22.4.2016. - Košice : HF TU, 2016, p. 109. ISBN 978-80-553-2547-7.(Metallography´16 : international symposium on metallography and materilas science). |
| AFH09 | STREČKOVÁ, Magdaléna - MÚDRA, Erika - ŠEBEK, Martin - SOPČÁK, Tibor - KOVÁČ, Jozef - DUSZA, Ján. Magnetic properties of Ni0.2Zn0.8Fe2O4 ferrite fibers prepared by needle-less electrospinning techniques. In 16th Czech and Slovak conference on magnetism : Book of abstracts. Košice, 13.-17.6.2016. - Košice : UPJŠ and ÚEF SAV, 2016, p. 121. ISBN 978-80-971450-9-5.(Czech and Slovak conference on magnetism). |
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| ADEB06 | MIHALIK, Marián - KAVEČANSKÝ, Viktor - MAŤAŠ, Slavomír - ZENTKOVÁ, Mária - PROKHENKO, O. - ANDRÉ, G. Magnetic properties and neutron diffraction study of (NixMn1-x)3[ Cr(CN)6]2 molecule-based magnets. In Journal of Physics: Conference Series, 2010, vol. 200, art. no. 022035. (2010 - WOS, SCOPUS). ISSN 1742-6588.(ICM 2009 : International Conference on Magnetism). |

Citácie:

*1. [1.1] YUKSEL, Yusuf. Monte Carlo simulation of Prussian blue analogs described by Heisenberg ternary alloy model. In JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS. ISSN 0022-3697, 2015, vol. 86, pp. 207-214., WOS*

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| ADEB07 | ŠVEC, Peter Jr. - ŠVEC, Peter - MAŤKO, Igor - ŠKORVÁNEK, Ivan - KOVÁČ, Jozef - JANIČKOVIČ, Dušan - VLASÁK, Gabriel. Phase Transformations in Amorphous Bilayer Ribbons. In Solid State Phenomena, 2011, vol. 172-174, p. 953-958. (2011 - WOS, SCOPUS). ISSN 1012-0394. |

Citácie:

*1. [1.1] PANDA, A. K. - DEY, Sushmita - ROY, R. K. - SINGH, Satnam - MITRA, A. Influence of phase transformation on interfacial activity and bend sensitivity of rapidly quenched Fe77.5Si7.5B15/Co72.5Si12.5B15 bilayered magnetostrictive ribbons. In JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS. ISSN 0304-8853, 2015, vol. 378, pp. 440-446., WOS*

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| ADEB08 | ŽONDA, Martin - FARKAŠOVSKÝ, Pavol - ČENČARIKOVÁ, Hana. Thermodynamics of the three-dimensional Falicov-Kimball model. In Journal of Physics: Conference Series, 2010, vol. 200, art. no. 012240. (2010 - WOS, SCOPUS). ISSN 1742-6588.(ICM 2009 : International Conference on Magnetism). |

Citácie:

*1. [1.1] LIU, Ye-Hua - WANG, Lei. Quantum Monte Carlo study of mass-imbalanced Hubbard models. In PHYSICAL REVIEW B. ISSN 1098-0121, 2015, vol. 92, no. 23, art. no. 235129., WOS*

**ADFA Vedecké práce v ostatných domácich časopisoch – impaktovaných**

|  |  |
| --- | --- |
| ADFA01 | GAJDOŠÍKOVÁ, Alena - GAJDOŠÍK, Andrej - KONERACKÁ, Martina - ZÁVIŠOVÁ, Vlasta - ŠTVRTINA, Svetoslav - KRCHNÁROVÁ, Viera - KOPČANSKÝ, Peter - TOMAŠOVIČOVÁ, Natália - ŠTOLC, Svorad - TIMKO, Milan. Acute toxicity of magnetic nanoparticles in mice. In Neuroendocrinology Letters, 2006, vol. 27, suppl. 2, p. 96 - 99. (1.005 - IF2005). (2006 - WOS, SCOPUS). ISSN 0172-780X.(Interdisciplinary Slovak-Czech Toxicology Conference). |

Citácie:

*1. [1.2] VOLKOVOVA, K. - HANDY, R. D. - STARUCHOVA, M. - TULINSKA, J. - KEBIS, A. - PRIBOJOVA, J. - ULICNA, O. - KUCHARSKÁ, J. - DUSINSKA, M. Health effects of selected nanoparticles in vivo: Liver function and hepatotoxicity following intravenous injection of titanium dioxide and Na-oleate-coated iron oxide nanoparticles in rodents. In NANOTOXICOLOGY. ISSN 17435390, 2015, vol. 9, no. s1, p. 95-105., SCOPUS*

**ADMA Vedecké práce v zahraničných impaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS**

|  |  |
| --- | --- |
| ADMA01 | SABOL, F. - BOBROV, N. - NOVOTNÝ, M. - VASILENKO, T. - MOZEŠ, Štefan - ŠEFČÍKOVÁ, Zuzana - MOLČÁNYIOVÁ, A. - TKÁČOVÁ, R. - TOMORI, Zoltán - GÁL, Peter. Skin Wound Healing in Obese and Lean Male Adolescent Rats Submitted to Pre-Weaning Litter Size Manipulation. In Folia biologica, 2014, vol. 60, no. 1, p. 21-27. (1.167 - IF2013). (2014 - WOS, SCOPUS). ISSN 0015-5500. |

Citácie:

*1. [1.1] HALE, Matthew W. - SPENCER, Sarah J. - CONTI, Bruno - JASONI, Christine L. - KENT, Stephen - RADLER, Morgan E. - REYES, Teresa M. - SOMINSKY, Luba. Diet, behavior and immunity across the lifespan. In NEUROSCIENCE AND BIOBEHAVIORAL REVIEWS. ISSN 0149-7634, 2015, vol. 58, pp. 46-62., WOS*

|  |  |
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| ADMA02 | ŠKORVÁNEK, Ivan - MARCIN, Jozef - CAPIK, Marek - VARGA, Marek - TURČANOVÁ, Jana - KOVÁČ, Jozef - ŠVEC, Peter - JANIČKOVIČ, Dušan - KOVÁČ, František - STOYKA, Volodymyr. Tailoring of functional properties in Fe-based soft magnetic alloys by thermal processing under magnetic field. In Magnetohydrodynamics, 2012, vol. 48, no. 2, p. 371-377. (0.413 - IF2011). (2012 - WOS, SCOPUS). ISSN 0024-998X.(international pamir conference on Fundamental and applied MHD). |

Citácie:

*1. [1.1] MIGLIERINI, M. - PROCHAZKA, V. - RUEFFER, R. - ZBORIL, R. In situ crystallization of metallic glasses during magnetic field annealing. In ACTA MATERIALIA. ISSN 1359-6454, 2015, vol. 91, pp. 50., WOS*

*2. [1.1] PROCHAZKA, V. - VRBA, V. - SMRCKA, D. - RUEFFER, R. - MATUS, P. - MASLAN, M. - MIGLIERINI, M. B. Structural transformation of NANOPERM-type metallic glasses followed in situ by synchrotron radiation during thermal annealing in external magnetic field. In JOURNAL OF ALLOYS AND COMPOUNDS. ISSN 0925-8388, 2015, vol. 638, pp. 398., WOS*

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| ADMA03 | VUONG, Quan Van - BEDNÁRIKOVÁ, Zuzana - ANTOŠOVÁ, Andrea - HUY, Pham Dinh Quoc - ŠIPOŠOVÁ, Katarína - TUAN, Nguyen Anh - SUAN LI, Mai - GAŽOVÁ, Zuzana. Inhibition of insulin amyloid fibrillization by glyco-acridines: an in vitro and in silico study. In MEDCHEMCOMM, 2015, vol. 6, no. 5, p. 810-822. (2.495 - IF2014). (2015 - WOS, SCOPUS). ISSN 2040-2503. |

Citácie:

*1. [1.1] DEY, J. - KUMAR, S. - ASWAL, V. K. - PANICKER, L. V. - ISMAIL, K. - HASSAN, P. A. Effect of sodium salicylate and sodium deoxycholate on fibrillation of bovine serum albumin: comparison of fluorescence, SANS and DLS techniques. In PHYSICAL CHEMISTRY CHEMICAL PHYSICS. ISSN 1463-9076, 2015, vol. 17, no. 23, pp. 15442., WOS*

**ADMB Vedecké práce v zahraničných neimpaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS**

|  |  |
| --- | --- |
| ADMB01 | ANTAL, Vitaliy - VOLOCHOVÁ, Daniela - ZMORAYOVÁ, Katarína - RADUŠOVSKÁ, Monika - DIKO, Pavel. Thermal decomposition of Y123 powder and TSMG Y123 bulk superconductors in low oxygen atmosphere. In Physics Procedia, 2013, vol. 45, p. 49-52. (2013 - WOS, SCOPUS). ISSN 1875-3892.(ISS 2012 : International Symposium on Superconductivity). |

Citácie:

*1. [1.1] CHAINOK, Piyamas - KHUNTAK, Thanarat - SUJINNAPRAM, Supphadate - TIYASRI, Somporn - WONGPHAKDEE, Wirat - KRUAEHONG, Thitipong - NILKAMJON, Tunyanop - RATRENG, Sermsuk - UDOMSAMUTHIRUN, Pongkaew. Some properties of YBam Cu1+m O-y (m=2, 3, 4, 5) superconductors. In INTERNATIONAL JOURNAL OF MODERN PHYSICS B. ISSN 0217-9792, 2015, vol. 29, no. 9, art. no. 1550060., WOS*

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| ADMB02 | KUDELA, Karel. Space weather near Earth and energetic particles: selected results. In Journal of Physics: Conference Series, 2013, vol. 409, no. 1, art. no. 012017. (2013 - WOS, SCOPUS). ISSN 1742-6588.(ECRS 2012 : European Cosmic Ray Symposium). |

Citácie:

*1. [1.1] BADRUDDIN - KUMAR, Anand. Study of the Forbush Decreases, Geomagnetic Storms, and Ground-Level Enhancements in Selected Intervals and Their Space Weather Implications. In SOLAR PHYSICS. ISSN 0038-0938, 2015, vol. 290, no. 4, pp. 1271-1283., WOS*

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| ADMB03 | TABACHNIKOVA, E. D. - BENGUS, V.Z. - PODOLSKIY, A.V. - SMIRNOV, S.N. - NATSIK, V.D. - CSACH, Kornel - MIŠKUF, Jozef - GUNDEROV, D.V. - VALIEV, R.Z. Low temperature features of mechanical properties and failure of different commercial purity nanostructured titanium processed by ECA pressing. In Reviews on Advanced Materials Science, 2005, vol. 10, no. 3, p. 229-234. (2005 - WOS, SCOPUS). ISSN 1606-5131. |

Citácie:

*1. [1.1] LIU, Jian - KHAN, Akhtar S. - TAKACS, Laszlo - MEREDITH, Christopher S. Mechanical behavior of ultrafine-grained/nanocrystalline titanium synthesized by mechanical milling plus consolidation: Experiments, modeling and simulation. In INTERNATIONAL JOURNAL OF PLASTICITY. ISSN 0749-6419, 2015, vol. 64, pp. 151., WOS*

*2. [1.1] MEREDITH, Christopher S. - KHAN, Akhtar S. The microstructural evolution and thermo-mechanical behavior of UFG Ti processed via equal channel angular pressing. In JOURNAL OF MATERIALS PROCESSING TECHNOLOGY. ISSN 0924-0136, 2015, vol. 219, pp. 257., WOS*

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| ADMB04 | TABACHNIKOVA, E. D. - KOROLKOVA, E.B. - DIKO, Pavel - MIŠKUF, Jozef - CSACH, Kornel. Low Temperature Strength and Fracture of the Amorphous Metal Alloy Co60Fe5Ni10Si10B15. In Key Engineering Materials, 1990, vol. 40-41, p. 339-344. ISSN 1013-9826. |

Citácie:

*1. [1.1] SUN, Y. H. Inverse ductile-brittle transition in metallic glasses? In MATERIALS SCIENCE AND TECHNOLOGY. ISSN 0267-0836, 2015, vol. 31, no. 6, pp. 635., WOS*

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

|  |  |
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| ADNA01 | KÚDELČÍK, J. - BURY, P. - KOPČANSKÝ, Peter - TIMKO, Milan - ZÁVIŠOVÁ, Vlasta. Acoustic properties of magnetic fluids based on transformer oil under magnetic field. In Journal of Electrical Engineering, 2013, vol. 64, no. 6, p. 381-385. (0.546 - IF2012). (2013 - WOS, SCOPUS, INSPEC). ISSN 1335-3632. |

Citácie:

*1. [1.1] BAEV, Aliaksei R. - KOROBKO, Evguenia V. - NOVIKOVA, Zoya A. Acoustical properties of magnetorheological fluids under applied magnetic field. In JOURNAL OF INTELLIGENT MATERIAL SYSTEMS AND STRUCTURES. ISSN 1045-389X, 2015, vol. 26, no. 14, pp. 1913-1919., WOS*

**\*AFBA Publikované pozvané príspevky na medzinárodných vedeckých konferenciách poriadaných v SR**

|  |  |
| --- | --- |
| AFBA01 | ASTALOŠ, Ján - BABÍK, Marian - BREIER, Robert - BRUNCKO, Dušan - CHOCHULA, P. - FEKETE, V. - KUĽKOVÁ, Ingrid - ŠÁNDOR, Ladislav - SITÁR, Branislav - STRAKA, Miloslav - STRÍŽENEC, Pavol - TOKÁR, S. - VAĽA, Martin - VRLAKOVÁ, Jana - ZENIS, Tibor. Slovak participation in the World LHC computing grid. In 6th International Workshop on Grid Computing for Complex Problems, November 8 - 10, 2010, Bratislava : GCCP 2010 proceedings. Eds. L. Hluchý, P. Kurdel, J. Sebestyénová. - Bratislava : Institute of Informatics SAS, 2010, p. 21-27. ISBN 978-80-970145-3-7. |

Citácie:

*1. [1.1] EVA, Pajorova - LADISLAV, Hluchy. High Performance Computing with a Big Data: 3D Visualization of the Research Results. In INTERNATIONAL CONFERENCE ON ADVANCES IN MANAGEMENT SCIENCE AND ENGINEERING (AMSE 2015), 2015, vol., no., pp. 140-144., WOS*

*2. [3.1] PAJOROVA, E. - HLUCHÝ, L. High performance computing with a big data: 3D visualization of the research results. In Research in Computing Science. 2015, vol. 102, pp. 9-19.*

**AFC Publikované príspevky na zahraničných vedeckých konferenciách**

|  |  |
| --- | --- |
| AFC01 | STROBL, S. - WAGESREITHER, J. - GIERL, C. - DLAPKA, M. - KUPKOVÁ, Miriam - KUPKA, Martin - ČERNÝ, M. The influence of Cu-coating versus admixing on mechanical properties and dimensional change of sintered Fe-Cu parts. In Materials Science Forum, 2011, vol. 672, p. 63-67. (0.233 - IF2010). (2011 - SCOPUS). ISSN 0255-5476.(RoPM 2009 : International conference on powder metallurgy). |

Citácie:

*1. [1.2] BAILON-POUJOL, Ian - CAMPBELL-TREMBLAY, Julie - AGUIRRE, Lydia. Influence of the particle size distribution and morphology of Ni and Cu powders on the Dimensional change of sintered parts. In Advances in Powder Metallurgy and Particulate Materials Proceedings of the 2015 International Conference on Powder Metallurgy and Particulate Materials, PowderMet 2015, 2015-01-01, pp., SCOPUS*

|  |  |
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| AFC02 | TOMORI, Zoltán - KANKA, Ján - KESA, Peter - JAKL, Petr - SERY, Mojmír - BERNATOVA, Silvie - ANTALÍK, Marián - ZEMÁNEK, Pavel. Natural user interface as a supplement of the holographic Raman tweezers. In Optical Trapping and Optical Micromanipulation 11 : proceedings of SPIE. Eds. Dholakia, Kishan, Spalding, Gabriel C. - SPIE Press, 2014, vol. 9164, 8 p. ISBN 9781628411911. |

Citácie:

*1. [1.2] JÁKL, Petr - ARZOLA, Alejandro V. - ZEMÁNEK, Pavel. In-situ aberration correction of Bessel beams using spatial light modulator. In Proceedings of SPIE The International Society for Optical Engineering. ISSN 0277786X, 2015-01-01, 9442, art. no. 94420G., SCOPUS*

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| AFC03 | ZÁVIŠOVÁ, Vlasta - TOMAŠOVIČOVÁ, Natália - KOVÁČ, Jozef - KONERACKÁ, Martina - KOPČANSKÝ, Peter - VÁVRA, Ivo. Synthesis and characterisation of rod-like magnetic nanoparticles. In NANOCON 2010: 2nd international conference, October 12th - 14th 2010, Olomouc, Czech Republic : conference proceedings. - Ostrava : TANGER Ltd., 2010, s. 330-335. ISBN 978-80-87294-19-2.(NANOCON 2010 : International Conference). |

Citácie:

*1. [1.1] NAIR, K.K. - KAUR, R. - IQBAL, N. - HASAN, A. - ALAM, S. - RAZA, S.K. In MATERIALS RESEARCH EXPRESS. APR 2015, vol. 2, no. 4., WOS*

**AFG Abstrakty príspevkov zo zahraničných konferencií**

|  |  |
| --- | --- |
| AFG01 | MITRÓOVÁ, Zuzana - TOMAŠOVIČOVÁ, Natália - LANCZ, Gábor - KOVÁČ, Jozef - VÁVRA, Ivo - KOPČANSKÝ, Peter. Preparation and characterization of carbon nanotubes functionalized by magnetite nanoparticles. In NANOCON 2010: 2nd international conference, October 12th - 14th 2010, Olomouc, Czech Republic : conference proceedings. - Ostrava : TANGER Ltd., 2010, poster P44, p. 78. ISBN 978-80-87294-18-5.(NANOCON 2010 : International Conference). |

Citácie:

*1. [1.1] MUHSAN, A.S. - AHMAD, F. - MOHAMED, N.M. - RAZA, M.R. In INTERNATIONAL JOURNAL OF POWDER METALLURGY. WIN 2015, vol. 51, no. 1, p. 57-66., WOS*

*2. [1.1] MUHSAN, A.S. - AHMAD, F. - MOHAMED, N.M. - YUSOFF, P.S.M.M. - RAZA, M.R. In NANOSCIENCE AND NANOTECHNOLOGY LETTERS. OCT 2014, vol. 6, no. 10, p. 865-874., WOS*

*3. [1.1] NGUYEN, P.H.N. In ADVANCES IN NATURAL SCIENCES-NANOSCIENCE AND NANOTECHNOLOGY. MAR 2014, vol. 5, no. 1., WOS*

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

|  |  |
| --- | --- |
| GII01 | BARKA, Ivan - BETÁK, Juraj - BUCHA, Tomáš - CEBECAUER, Tomáš - FERANEC, Ján - HAGUE IGONDOVÁ, Miroslava - HEFTY, Ján - HERDA, Pavol - HLAVÁČ, T. - HUSÁRIK, Marek - JANÁK, Juraj - KAŇÁK, Ján - KUDELA, Karel - MIŠKOVÁ, Monika - NOVÁČEK, Jozef - NOVÁKOVÁ, Martina - SVIČEK, Michal - SVOREŇ, Ján - ŠÚRI, Marcel - TAKÁČ, Jozef. Meniace sa Slovensko očami satelitov [elektronický zdroj]. Editor Ján Feranec. Bratislava : Veda, 2012. DVD + 72 s. textová časť. Názov z DVD. Požaduje sa Adobe Flash Player. ISBN 978-80-224-1285-8. |

Citácie:

*1. [1.1] ZONCOVA, M. - DUBCOVA, A. Using an "INTERSECT" tool in ARCGIS for analysis of changes in the secondary landscape structure of Podhajska municipality. In MENDELNET 2015. 2015, p. 330-335., WOS* ***Príloha D***

**Údaje o pedagogickej činnosti organizácie**

Semestrálne prednášky:

RNDr. Pavol Bobík, PhD

Názov semestr. predmetu: Častice ultravysokých energií

Počet hodín za semester: 28

Názov katedry a vysokej školy: Univerzita Pavla Jozefa Šafárika v Košiciach, Katedra jadrovej a subjadrovej fyziky

RNDr. Hana Čenčariková, PhD

Názov semestr. predmetu: Fázové prechody a kritické javy- prednáška

Počet hodín za semester: 39

Názov katedry a vysokej školy: Prešovská univerzita v Prešove, Fakulta humanitných a prírodných vied

Doc. RNDr. Karol Flachbart, DrSc.

Názov semestr. predmetu: Fyzikálne princípy lekárskej techniky

Počet hodín za semester: 26

Názov katedry a vysokej školy: Univerzita Pavla Jozefa Šafárika v Košiciach, Ústav fyzikálnych vied

Doc. RNDr. Karol Flachbart, DrSc.

Názov semestr. predmetu: Makroskopické kvantové systémy II

Počet hodín za semester: 13

Názov katedry a vysokej školy: Univerzita Pavla Jozefa Šafárika v Košiciach, Ústav fyzikálnych vied

RNDr. Slavomír Gabáni, PhD.

Názov semestr. predmetu: Fyzika vysokých tlakov

Počet hodín za semester: 8

Názov katedry a vysokej školy: Univerzita Pavla Jozefa Šafárika v Košiciach, Ústav fyzikálnych vied

RNDr. Marián Jurčišin, PhD.

Názov semestr. predmetu: Kozmológia

Počet hodín za semester: 28

Názov katedry a vysokej školy: Univerzita Pavla Jozefa Šafárika v Košiciach, Katedra teoretickej fyziky a astrofyziky

RNDr. Marián Jurčišin, PhD.

Názov semestr. predmetu: Matematická fyzika

Počet hodín za semester: 42

Názov katedry a vysokej školy: Univerzita Pavla Jozefa Šafárika v Košiciach, Katedra teoretickej fyziky a astrofyziky

RNDr. Marián Jurčišin, PhD.

Názov semestr. predmetu: Všeobecná teória relativity

Počet hodín za semester: 28

Názov katedry a vysokej školy: Univerzita Pavla Jozefa Šafárika v Košiciach, Katedra teoretickej fyziky a astrofyziky

Prof. Ing. Karel Kudela, DrSc.

Názov semestr. predmetu: Cosmic Rays - ERASMUS (angl)

Počet hodín za semester: 26

Názov katedry a vysokej školy: Prírodovedecká fakulta UPJŠ, KJaSJF

Prof. Ing. Karel Kudela, DrSc.

Názov semestr. predmetu: Kosmické záření - doktorandské studium

Počet hodín za semester: 26

Názov katedry a vysokej školy: Fakulta jaderná a fyzikálně inženýrská, České vysoké učení technické, Česko, FJFI obor dozimetrie

Ing. Zuzana Mitróová, PhD

Názov semestr. predmetu: Kurz fyziky

Počet hodín za semester: 20

Názov katedry a vysokej školy: Technická univerzita v Košiciach, Letecká fakulta TUKE

MUDr. Andrey Musatov, DrSc.

Názov semestr. predmetu: Molekulové mechanizmy oxidačného stresu

Počet hodín za semester: 28

Názov katedry a vysokej školy: Univerzita Pavla Jozefa Šafárika v Košiciach, Biofyzika/Ústav fyzikálnych vied

RNDr. Ján Nemčík, CSc.

Názov semestr. predmetu: aplikovaná QCD pri vysokých energiách

Počet hodín za semester: 30

Názov katedry a vysokej školy: České vysoké učení technické v Praze, Česká republika, Katedra fyziky

RNDr. Marián Putiš, PhD.

Názov semestr. predmetu: Častice ultravysokých energií

Počet hodín za semester: 6

Názov katedry a vysokej školy: Univerzita Pavla Jozefa Šafárika v Košiciach, Katedra jadrovej a subjadrovej fyziky

Prof. RNDr. Peter Samuely, DrSc.

Názov semestr. predmetu: Vybrané kapitoly z fyziky kondenzovaných látok

Počet hodín za semester: 48

Názov katedry a vysokej školy: Univerzita Pavla Jozefa Šafárika v Košiciach, Ústav fyzikálnych vied/ÚEF SAV

RNDr. Natália Tomašovičová, CSc.

Názov semestr. predmetu: Kvapalné kryštály

Počet hodín za semester: 26

Názov katedry a vysokej školy: Univerzita Pavla Jozefa Šafárika v Košiciach, Prírodovedecká Fakulta

RNDr. Natália Tomašovičová, CSc.

Názov semestr. predmetu: Spektroskopické metódy

Počet hodín za semester: 8

Názov katedry a vysokej školy: Univerzita Pavla Jozefa Šafárika v Košiciach, Prírodovedecká Fakulta

RNDr. Mária Zentková, CSc.

Názov semestr. predmetu: Fyzika vysokych tlakov 3

Počet hodín za semester: 10

Názov katedry a vysokej školy: Prírodovedecká fakulta UPJŠ, Ustav fyzikálnych vied

Semestrálne cvičenia:

RNDr. Hana Čenčariková, PhD

Názov semestr. predmetu: Fázové prechody a kritické javy - cvičenia

Počet hodín za semester: 13

Názov katedry a vysokej školy: Prešovská univerzita v Prešove, Fakulta humanitných a prírodných vied

doc. RNDr. Zuzana Gažová, CSc.

Názov semestr. predmetu: biochémia

Počet hodín za semester: 40

Názov katedry a vysokej školy: Univerzita Pavla Jozefa Šafárika v Košiciach, Katedra klinickej biochémie LF

RNDr. Marián Jurčišin, PhD.

Názov semestr. predmetu: Matematická fyzika

Počet hodín za semester: 14

Názov katedry a vysokej školy: Univerzita Pavla Jozefa Šafárika v Košiciach, Katedra teoretickej fyziky a astrofyziky

Ing. Zuzana Mitróová, PhD

Názov semestr. predmetu: Cvičenia z fyziky I

Počet hodín za semester: 52

Názov katedry a vysokej školy: Technická univerzita v Košiciach, Letecká fakulta TUKE

RNDr. Natália Tomašovičová, CSc.

Názov semestr. predmetu: Fyzika I

Počet hodín za semester: 26

Názov katedry a vysokej školy: Technická univerzita v Košiciach, Letecká fakulta

Semináre:

Ing. Zuzana Mitróová, PhD

Názov semestr. predmetu: semináre z fyziky

Počet hodín za semester: 26

Názov katedry a vysokej školy: Technická univerzita v Košiciach, Letecká fakulta TUKE

RNDr. Natália Tomašovičová, CSc.

Názov semestr. predmetu: Seminár z Fyziky I

Počet hodín za semester: 26

Názov katedry a vysokej školy: Technická univerzita v Košiciach, Letacká fakulta

Terénne cvičenia:

Individuálne prednášky:

RNDr. Ivan Králik, CSc.

Názov semestr. predmetu: Teória a fenomenológia elementárnych častíc

Počet hodín za semester: 25

Názov katedry a vysokej školy: Univerzita Pavla Jozefa Šafárika v Košiciach, Prírodovedecká fakulta   
   
 ***Príloha E***

**Medzinárodná mobilita organizácie**

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Krajina** | **D r u h d o h o d y** | | | | | |
|  | **MAD, KD, VTS** | | **Medziústavná** | | **Ostatné** | |
|  | **Meno pracovníka** | **Počet dní** | **Meno pracovníka** | **Počet dní** | **Meno pracovníka** | **Počet dní** |
| Belgicko |  |  |  |  | Vlasta Závišová | 3 |
|  |  |  |  |  | Vlasta Závišová | 3 |
| Česko | Karel Kudela | 3 |  |  | Dušan Bruncko | 3 |
|  | Ronald Langer | 4 |  |  | Diana Fedunová | 5 |
|  | Ronald Langer | 4 |  |  | Veronika Gdovinová | 4 |
|  | Marián Mihalik | 2 |  |  | Peter Keša | 4 |
|  | Zuzana Molčanová | 2 |  |  | Peter Keša | 4 |
|  | Mária Zentková | 2 |  |  | Peter Kopčanský | 4 |
|  |  |  |  |  | Karel Kudela | 3 |
|  |  |  |  |  | Karel Kudela | 2 |
|  |  |  |  |  | Karel Kudela | 3 |
|  |  |  |  |  | Ronald Langer | 3 |
|  |  |  |  |  | Šimon Mackovjak | 3 |
|  |  |  |  |  | Marián Mihalik | 5 |
|  |  |  |  |  | Marián Mihalik | 1 |
|  |  |  |  |  | Matúš Mihálik | 1 |
|  |  |  |  |  | Zuzana Molčanová | 5 |
|  |  |  |  |  | Zuzana Molčanová | 6 |
|  |  |  |  |  | Andrej Musatov | 4 |
|  |  |  |  |  | Ján Nemčík | 15 |
|  |  |  |  |  | Ján Nemčík | 23 |
|  |  |  |  |  | Ján Nemčík | 16 |
|  |  |  |  |  | Ján Nemčík | 15 |
|  |  |  |  |  | Ján Nemčík | 15 |
|  |  |  |  |  | Igor Strhárský | 4 |
|  |  |  |  |  | Milan Timko | 4 |
|  |  |  |  |  | Natália Tomašovičová | 4 |
|  |  |  |  |  | Mária Zentková | 1 |
| Čile |  |  |  |  | Ján Nemčík | 35 |
| Čína |  |  |  |  | Zuzana Bednáriková | 9 |
|  |  |  |  |  | Diana Fedunová | 9 |
|  |  |  |  |  | Zuzana Gažová | 9 |
| Fínsko |  |  |  |  | Peter Kopčanský | 5 |
|  |  |  |  |  | Michal Kopčík | 11 |
|  |  |  |  |  | Zuzana Medvecká | 11 |
|  |  |  |  |  | Matúš Orendáč | 11 |
| Francúzsko |  |  |  |  | Jozef Kačmarčík | 12 |
|  |  |  |  |  | Jozef Kačmarčík | 40 |
|  |  |  |  |  | Peter Kopčanský | 4 |
|  |  |  |  |  | Peter Kopčanský | 4 |
|  |  |  |  |  | Zuzana Medvecká | 63 |
|  |  |  |  |  | Michal Rajňák | 5 |
|  |  |  |  |  | Marián Reiffers | 12 |
|  |  |  |  |  | Milan Timko | 4 |
| Grécko |  |  |  |  | Peter Kopčanský | 4 |
|  |  |  |  |  | Vlasta Závišová | 4 |
| Maďarsko | Jozef Kováč | 5 |  |  | Karol Flachbart | 1 |
|  |  |  |  |  | Veronika Gdovinová | 6 |
|  |  |  |  |  | Peter Kopčanský | 2 |
|  |  |  |  |  | Jozef Kováč | 7 |
|  |  |  |  |  | Filoména Sopková | 7 |
|  |  |  |  |  | Pavol Szabó | 4 |
|  |  |  |  |  | Pavol Szabó | 1 |
|  |  |  |  |  | Pavol Szabó | 12 |
|  |  |  |  |  | Milan Timko | 2 |
|  |  |  |  |  | Natália Tomašovičová | 6 |
| Nemecko | Slavomír Gabáni | 19 |  |  | Lucia Balejčíková | 4 |
|  | Matúš Orendáč | 19 |  |  | Michaela Jeníková | 10 |
|  | Gabriel Pristáš | 19 |  |  | Peter Kopčanský | 5 |
|  |  |  |  |  | Jozefína Majorošová | 10 |
|  |  |  |  |  | Ján Nemčík | 15 |
|  |  |  |  |  | Michal Rajňák | 4 |
|  |  |  |  |  | Miloslav Straka | 5 |
|  |  |  |  |  | Pavol Stríženec | 13 |
|  |  |  |  |  | Milan Timko | 5 |
| Poľsko | Jozef Kováč | 14 |  |  | Iryna Khmara | 7 |
|  | Marián Mihalik | 5 |  |  | Peter Kopčanský | 4 |
|  | Zuzana Molčanová | 5 |  |  | Katarína Paulovičová | 4 |
|  | Mária Zentková | 5 |  |  | Milan Timko | 4 |
| Portugalsko |  |  |  |  | Marián Mihalik | 6 |
|  |  |  |  |  | Matúš Mihálik | 6 |
|  |  |  |  |  | Mária Zentková | 6 |
| Rakúsko |  |  |  |  | Michal Rajňák | 2 |
| Rumunsko |  |  |  |  | Peter Kopčanský | 5 |
|  |  |  |  |  | Peter Kopčanský | 4 |
|  |  |  |  |  | Milan Timko | 4 |
|  |  |  |  |  | Milan Timko | 5 |
| Rusko |  |  |  |  | Karol Flachbart | 5 |
|  |  |  |  |  | Slavomír Gabáni | 5 |
|  |  |  |  |  | Veronika Gdovinová | 7 |
|  |  |  |  |  | Veronika Gdovinová | 87 |
|  |  |  |  |  | Marián Jurčišin | 16 |
|  |  |  |  |  | Marián Jurčišin | 86 |
|  |  |  |  |  | Eva Jurčišinová | 86 |
|  |  |  |  |  | Peter Kopčanský | 4 |
|  |  |  |  |  | Matúš Molčan | 87 |
|  |  |  |  |  | Ján Mušinský | 18 |
|  |  |  |  |  | Ján Mušinský | 47 |
|  |  |  |  |  | Ján Mušinský | 40 |
|  |  |  |  |  | Blahoslav Pastirčák | 55 |
|  |  |  |  |  | Richard Pinčák | 17 |
|  |  |  |  |  | Richard Pinčák | 89 |
|  |  |  |  |  | Michal Pudlák | 84 |
|  |  |  |  |  | Michal Rajňák | 7 |
|  |  |  |  |  | Maxim Rezenov | 9 |
|  |  |  |  |  | Katarína Šipošová | 8 |
|  |  |  |  |  | Katarína Šipošová | 89 |
|  |  |  |  |  | Natália Tomašovičová | 87 |
| Srbsko |  |  |  |  | Matúš Mihálik | 5 |
|  |  |  |  |  | Matúš Mihálik | 5 |
|  |  |  |  |  | Zuzana Molčanová | 5 |
| Španielsko |  |  |  |  | Peter Kopčanský | 6 |
|  |  |  |  |  | Ingrid Kuľková | 7 |
|  |  |  |  |  | Šimon Mackovjak | 19 |
|  |  |  |  |  | Michal Pudlák | 16 |
|  |  |  |  |  | Miloslav Straka | 7 |
|  |  |  |  |  | Milan Timko | 6 |
| Švajčiarsko |  |  |  |  | Dušan Bruncko | 9 |
|  |  |  |  |  | Dušan Bruncko | 8 |
|  |  |  |  |  | Marián Jurčišin | 11 |
|  |  |  |  |  | Peter Kaliňák | 56 |
|  |  |  |  |  | Peter Kaliňák | 21 |
|  |  |  |  |  | Peter Kaliňák | 31 |
|  |  |  |  |  | Ivan Králik | 28 |
|  |  |  |  |  | Ivan Králik | 39 |
|  |  |  |  |  | Ivan Králik | 22 |
|  |  |  |  |  | Ingrid Kuľková | 14 |
|  |  |  |  |  | Ingrid Kuľková | 14 |
|  |  |  |  |  | Pavol Murín | 18 |
|  |  |  |  |  | Ján Mušinský | 17 |
|  |  |  |  |  | Ján Mušinský | 21 |
|  |  |  |  |  | Richard Pinčák | 11 |
|  |  |  |  |  | Filoména Sopková | 12 |
|  |  |  |  |  | Miloslav Straka | 5 |
|  |  |  |  |  | Miloslav Straka | 9 |
|  |  |  |  |  | Miloslav Straka | 12 |
|  |  |  |  |  | Miloslav Straka | 10 |
|  |  |  |  |  | Miloslav Straka | 7 |
|  |  |  |  |  | Pavol Stríženec | 18 |
|  |  |  |  |  | Pavol Stríženec | 22 |
|  |  |  |  |  | Pavol Stríženec | 26 |
|  |  |  |  |  | Pavol Stríženec | 14 |
|  |  |  |  |  | Pavol Stríženec | 19 |
|  |  |  |  |  | Pavol Stríženec | 16 |
|  |  |  |  |  | Pavol Stríženec | 20 |
|  |  |  |  |  | Pavol Stríženec | 35 |
|  |  |  |  |  | Jozef Špalek | 14 |
| Taliansko | Erna Demjén | 6 |  |  | Zuzana Bednáriková | 6 |
|  | Zuzana Gažová | 6 |  |  |  |  |
| Ukrajina |  |  |  |  | Kornel Csach | 1 |
|  |  |  |  |  | Mária Huráková | 1 |
|  |  |  |  |  | Alena Juríková | 1 |
|  |  |  |  |  | Peter Kopčanský | 5 |
|  |  |  |  |  | Jozef Miškuf | 1 |
|  |  |  |  |  | Katarína Šipošová | 2 |
|  |  |  |  |  | Milan Timko | 5 |
| Veľká Británia |  |  |  |  | Martina Kubovčíková | 4 |
|  |  |  |  |  | Vlasta Závišová | 4 |
| **Počet vyslaní spolu** | **16** | **120** |  |  | **147** | **2189** |

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Krajina** | **D r u h d o h o d y** | | | | | |
|  | **MAD, KD, VTS** | | **Medziústavná** | | **Ostatné** | |
|  | **Meno pracovníka** | **Počet dní** | **Meno pracovníka** | **Počet dní** | **Meno pracovníka** | **Počet dní** |
| Argentína | Prof. Julian Sereni | 15 |  |  |  |  |
| Česko | Doc. RNDr. Ilja Turek, DrSc. | 6 |  |  |  |  |
|  | Ing. Dagamr Kyselová | 6 |  |  |  |  |
|  | Ing. Ivana Kolmašová, PhD. | 3 |  |  |  |  |
|  | Ing. Ivona Jirásková, PhD. | 6 |  |  |  |  |
|  | Ing. Jaroslav Chum, PhD. | 2 |  |  |  |  |
|  | Ing. Jaroslav Chum, PhD. | 3 |  |  |  |  |
|  | Ing. Jiří Baše | 2 |  |  |  |  |
|  | Ing. Jiří Baše | 3 |  |  |  |  |
|  | Ing. Martin Kákona | 6 |  |  |  |  |
|  | Ing. Ondřej Ploc, PhD. | 3 |  |  |  |  |
|  | Ing. Radek Lán | 3 |  |  |  |  |
|  | Prof. RNDr. Ondřej Santolík, Dr. | 3 |  |  |  |  |
| Japonsko |  |  | Takama Hiroki | 19 |  |  |
| Maďarsko |  |  |  |  | Dr. Zoltán Osváth | 12 |
|  |  |  |  |  | Tibor Tóth-Katona | 12 |
| Nemecko | Dr. Konrad Siemensmeyer | 6 |  |  |  |  |
| Poľsko | Dominik Czernia | 2 |  |  |  |  |
|  | Lukasz Michalski | 2 |  |  |  |  |
|  | Magdalena Fitta | 5 |  |  |  |  |
|  | Piotr Konieczny | 3 |  |  |  |  |
|  | Piotr Konieczny | 2 |  |  |  |  |
|  | Prof. Jan Blecki | 6 |  |  |  |  |
|  | Tadeusz Wasiutynski | 5 |  |  |  |  |
| Portugalsko |  |  |  |  | Dr. Rii Villario | 2 |
|  |  |  |  |  | Prof. Abilio Almeida | 2 |
| Srbsko |  |  |  |  | Dr. Jovan Blanusa | 7 |
|  |  |  |  |  | Dr. Vojislav Spasojevic | 7 |
| Taliansko | Dr. Cristiano Albonetti. PhD. | 10 |  |  |  |  |
|  | Dr. Eva Bystrenová | 10 |  |  |  |  |
| Ukrajina | Dr. Oleksiy Dudnik, DrSc. | 7 |  |  |  |  |
|  | Dr. Valentyna Sirenko | 7 |  |  |  |  |
| Veľká Británia |  |  | Namburi Devendra Kumar, PhD. | 11 |  |  |
| **Počet prijatí spolu** | **25** | **126** | **2** | **30** | **6** | **42** |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **Krajina** | **Názov konferencie** | **Meno pracovníka** | **Počet dní** |
| Česko | IBWS 2016 | Ronald Langer | 3 |
|  | NANOCON 2016 | Ivan Škorvánek | 4 |
|  | QFS 2016 | Marcel Človečko | 7 |
|  |  | Slavomír Gabáni | 7 |
|  |  | Emil Gažo | 7 |
|  | QFS 2016 | Peter Skyba | 11 |
|  | QFS 2016 | František Vavrek | 7 |
|  | TOP 2016 | Filoména Sopková | 6 |
|  |  | Jozef Urban | 5 |
| Francúzsko | JdA2016 a 11th SPCA | Marián Reiffers | 9 |
| Japonsko | ISS 2016 | Pavel Diko | 7 |
| Kanada | SCAMC 2016 | Vlasta Závišová | 8 |
| Nemecko | NCSA 2016 | Zuzana Medvecká | 7 |
|  |  | Peter Samuely | 7 |
|  |  | Zuzana Vargaeštoková | 7 |
|  | W | Peter Samuely | 5 |
|  | Workshop | Pavol Stríženec | 7 |
|  |  | Pavol Szabó | 5 |
| Poľsko | CLC 2016 | Veronika Gdovinová | 1 |
|  |  | Peter Kopčanský | 6 |
|  |  | Milan Timko | 6 |
|  |  | Natália Tomašovičová | 1 |
|  | MARCM 2016 | Peter Kopčanský | 4 |
|  |  | Milan Timko | 4 |
| Rusko | AYSS-2016 | Veronika Gdovinová | 7 |
|  |  | Mária Huráková | 7 |
|  | ICMF 14 | Veronika Gdovinová | 8 |
|  |  | Peter Kopčanský | 8 |
|  | Summer School | Blahoslav Pastirčák | 10 |
|  | YUMO | Peter Kopčanský | 7 |
|  |  | Milan Timko | 7 |
| Srbsko | NGP 2016 | Zuzana Bednáriková | 5 |
|  |  | Diana Fedunová | 5 |
|  |  | Zuzana Gažová | 5 |
|  |  | Katarína Uličná | 5 |
| Švajčiarsko | Workshop | Peter Samuely | 5 |
|  |  | Pavol Szabó | 5 |
| Taliansko | BDS 2016 | Michal Rajňák | 5 |
|  | ICMP 14 | Milan Timko | 8 |
|  | ICTP | Pavol Farkašovský | 10 |
|  | PAMIR 2016 | Peter Kopčanský | 7 |
|  |  | Ivan Škorvánek | 9 |
|  |  | Milan Timko | 7 |
|  | SUPERSTRIPES 2016 | Peter Samuely | 10 |
|  |  | Pavol Szabó | 8 |
| Ukrajina | PLMMP | Peter Kopčanský | 7 |
|  |  | Milan Timko | 7 |
| USA | MMM 2016 | Jozef Marcin | 8 |
|  |  | Ivan Škorvánek | 8 |
| Veľká Británia | Workshop | Pavel Diko | 3 |
| **Spolu** | **28** | **50** | **322** |

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

Skratky použité v tabuľke C:

AYSS-2016 - The XX International Scientific Conference odf Yong Scientists and Specialists, Dubna

BDS 2016 - 9th Intrnational Confernce on Broadhand Dielectric Spectroscopy and its Aplications, Pisa

CLC 2016 - Conference on Liquid Crystals 2016, Krynica

IBWS 2016 - 13th INTEGRAL/BART Workshop, Karlovy Vary

ICMF 14 - 14th International Conference on Magnetic Fluids, Ekaterinburg

ICMP 14 - 14th International Conference on Magnetic Fluids, Ekaterinburg

ICTP - Intrenational Centre for Theoretical Physics

ISS 2016 - 29th International Symposium on Superconductivity, Tokyo

JdA2016 a 11th SPCA - Medzinárodná konferencia JdA2016 a 11ta Škola fyziky a chémie aktinidov, Grenoble

MARCM 2016 - 12th Workshop Molecular Acoustics, Relaxation and Calorimetric Methods, Szczyrk

MMM 2016 - 61st Annual Conference on Magnetism and Magnetic Materials, New Orleans

NANOCON 2016 - 8. ročník mezinárodní konference nanomateriálu, Brno

NCSA 2016 - Nano confined superconductors and their application, Garmisch-Parterkirchen

NGP 2016 - Non-globular proteins in Molecular Physiopathology, Belehrad

PAMIR 2016 - 10th PAMIR International Confernce on Fundamental and Applied MHD, Cagliari

PLMMP - Physics of Liquid Matter: Modern Problem 2016, Kyjev

QFS 2016 - International Conference on quantum Fluids and Solids 2016, Praha

SCAMC 2016 - 11th International Conference on the Scientific and Clinical Applications of Magnetic Carriers, Vancouver

Summer School - 16th International Baikal Summer Scool on HEP and astrophysics, Bajkal

SUPERSTRIPES 2016 - International Conference SUPERSTRIPES 2016, Ischia

TOP 2016 - 9 th International Workshop on Top Quark Physics, Olomouc

W - Advances in preparation and investigation of emergent iron-based superconductors, Dresden

Workshop - Advances in preparation and investigation of emergent iron-based superconductors, Dresden

Workshop - Bulk Superconductivity Road Mapping Workshop, Cambridge

Workshop - LAr Week, Dresden

Workshop - Workshop Superconductivity at the Nanoscale: New advances, Saas-Fee

YUMO - III International Conference on Small Angle Neutron Scattering dedicated to the 80th anniversary of Yu.M. Ostanevich, Dubna