**Fyzikálny ústav SAV**

# Správa o činnosti organizácie SAV
# za rok 2021

Bratislava
január 2022

**IPSAS REPORT 2021 SUMMARY**

During 2021 the research activities dominated the life of the institute. Some of the research processes has changed and become virtual, but with reasonable and responsible approach of all the employees we managed to surf over covid waves without getting affected by the global situation. We might say we scientifically returned back to new standards. The number of publications (normalized to first quartile) has increased approximatively by 22%, thus, we kept slow increase in quality from times before covid. Within the internal annual performance evaluation of institutes of Slovak Academy of Sciences we kept our position from the last years, thus, being among top leading institutes in the related budget benefits. We were successful in attracting new researchers through academic schemes SASPRO (two researchers starting next year) and Schwarz (two researchers starting next year), but also another two researchers from internal project resources. IPSAS fellowship was awarded although the candidate did not find it financially interesting at the end. Nevertheless, there is a common agreement to continue with this institutional fellowship. Six new PhD students were selected (two funded from internal resources) and started their PhD studies. Altogether this "update of researchers" increased the internationalization of the institute and currently foreigners form 20% of all researchers (including PhD students, where the fraction is three times higher).

The key scientific results of the Institute's researchers in 2021 were traditionally selected by IPSAS Scientific Board. In the category for basic research the collection of nine highly profiled publications of the research team of the Department of Nanostructures and Multilayers (research led by Peter Šiffalovič and Katarína Gmucová) was selected for the analysis of **hybrid organic-anorganic and organic layers for photovoltaic and optoelectronic applications**. Different collection of seven publications from the same department (research led by Vojtech Nádaždy), focused on exploitation of **ER-EIR measurement method** originally designed in our laboratory for the purposes of **analysis of the impact of electron structures in organic polymers and perovskites,** was selected as the best result in the area of international collaboration. Within the category of applied research the research team led by Beáta Butvinová and Peter Švec was selected for their design and characterisation of specific magnetic properties of **amorphic and nanocrystalic Fe/Co-Sn/P-B metallic alloys** exhibiting potential applications in the industry of electrical transformers and sensors.

Except of these results we renumerated six **highly-impacted publications** (impact factor larger than 7 and one fifth of authors affiliated with the institute). Also we rewarded five **highly-cited publications** that has received in total more than hundred citations while keeping the average 7 citations per year. The list of most cited publications of the institute can be found at the institutional website. During the **IPSAS Open Research (Week)Day** in November we delivered approximatively 30 popularisation lectures at individual high schools all over the Slovakia. We consider this event to be very successful joint institutional popularisation activity.

## Obsah



***PRÍLOHY***

# 1. Základné údaje o organizácii

## 1.1. Kontaktné údaje

**Názov:** Fyzikálny ústav SAV
**Riaditeľ:** Doc. Mgr. Mário Ziman, PhD.
**Zástupca riaditeľa:** Mgr. Andrej Gendiar, PhD.
**Vedecký tajomník:** Mgr. Erik Bartoš, PhD.
**Predseda vedeckej rady:** Ing. Štefan Gmuca, CSc.
**Člen Snemu SAV:** RNDr. Katarína Gmucová, CSc.
**Adresa:** Dúbravská cesta 9, 845 11 Bratislava 45

http://www.fu.sav.sk

**Tel.:** +421-2-59410 501
**E-mail:** secretary.fusav@savba.sk

**Názvy a adresy organizačných zložiek a detašovaných pracovísk:**

Organizačné zložky: nie sú

Detašované pracoviská:

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

**Vedúci organizačných zložiek a detašovaných pracovísk:**

Organizačné zložky: nie sú

Detašované pracoviská:

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

**Členovia Snemu SAV za organizačné zložky:**
nie sú

**Typ organizácie:** Príspevková od roku 1997

## 1.2. Údaje o zamestnancoch

Tabuľka 1a Počet a štruktúra zamestnancov

| **Štruktúra zamestnancov** | **K** | **K** | | **K do 35 rokov** | | **F** | **P** | **T** | **O** |
|---|---|---|---|---|---|---|---|---|---|
| | | **M** | **Ž** | **M** | **Ž** | | | | |
| **Celkový počet zamestnancov** | 123 | 89 | 34 | 21 | 11 | 120 | 77.73 | 61.51 | 1.05 |
| **Vedeckí pracovníci** | 81 | 70 | 11 | 8 | 3 | 79 | 59.7 | 58.67 | 0 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Odborní pracovníci VŠ** (výskumní a vývojoví zamestnanci[1]) | 20 | 13 | 7 | 12 | 7 | 20 | 2.07 | 1.85 | 0.05 |
| **Odborní pracovníci VŠ** (ostatní zamestnanci[2]) | 9 | 2 | 7 | 1 | 1 | 8 | 5.53 | 1 | 1 |
| **Odborní pracovníci ÚS** | 12 | 3 | 9 | 0 | 0 | 12 | 10.05 | 0 | 0 |
| **Ostatní pracovníci** | 1 | 1 | 0 | 0 | 0 | 1 | 0.38 | 0 | 0 |

*[1] odmeňovaní podľa 553/2003 Z.z., príloha č. 5*
*[2] odmeňovaní podľa 553/2003 Z.z., príloha č. 3 a č. 4*

*K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2021 (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 31.12.2021 (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*
*O – celoročný priemerný prepočítaný počet obslužného personálu podieľajúceho sa na riešení projektov (technikov, laborantov, projektových manažérov a pod.) mimo zamestnancov v administratíve, správe a údržbe budov, upratovačiek, vodičov a pod.*
*M, Ž – muži, ženy*

Tabuľka 1b Štruktúra vedeckých pracovníkov (kmeňový stav k 31.12.2021)

| **Rodová skladba** | **Pracovníci s hodnosťou** | | | | **Vedeckí pracovníci v stupňoch** | | |
|---|---|---|---|---|---|---|---|
| | **DrSc.** | **CSc./PhD.** | **prof.** | **doc.** | **I.** | **II.a.** | **II.b.** |
| **Muži** | 14 | 57 | 4 | 2 | 18 | 34 | 18 |
| **Ženy** | 1 | 11 | 0 | 0 | 1 | 4 | 6 |

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** | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **A** | **B** | **A** | **B** | **A** | **B** | **A** | **B** | **A** | **B** | **A** | **B** | **A** | **B** | **A** | **B** | **A** | **B** |
| **Muži** | 8 | 1.4 | 10 | 6.7 | 9 | 7.7 | 12 | 10.7 | 6 | 3.6 | 2 | 1.2 | 4 | 4.0 | 11 | 11.0 | 12 | 8.8 |
| **Ženy** | 7 | 0.3 | 3 | 1.1 | 4 | 3.2 | 1 | 0.1 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 3 | 2.5 |

*A - Prepočet bez zohľadnenia úväzkov zamestnancov*
*B - Prepočet so zohľadnením úväzkov zamestnancov*

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2021

| | **Kmeňoví zamestnanci** | **Vedeckí pracovníci** | **Riešitelia projektov** |
|---|---|---|---|
| **Muži** | 47.7 | 50.5 | 48.5 |
| **Ženy** | 44.6 | 44.1 | 38.3 |
| **Spolu** | 46.9 | 49.6 | 46.5 |

### 1.3. Iné dôležité informácie k základným údajom o organizácii a zmeny za posledné obdobie

**(v zameraní, v organizačnej štruktúre a pod.)**

**Vedenie ústavu** sa stretáva s predstaviteľmi oddelení na pravidelných mesačných neformálnych stretnutiach (druhá streda v mesiaci), tzv. **kolégiách**. Vo februári/marci sa uskutočňujú stretnutia vedenia s vedeckými pracovníkmi na jednotlivých oddeleniach.

**Vedecká rada FU SAV** pracuje v nasledovnom zložení:
**Interní členovia:**
Ing. Vlastimil Boháč, CSc., Ing. Štefan Gmuca, CSc. (predseda), RNDr. Katarína Gmucová, CSc., RNDr. Marián Krajčí, DrSc., RNDr. Igor Maťko, CSc., doc. RNDr. Martin Plesch, PhD., Mgr. Michal Sedlák (podpredseda), PhD., RNDr. Ondrej Šauša, CSc.
**Externí členovia:**
doc. RNDr. Richard Hlubina DrSc. (FMFI UK), prof. Dr.h.c. RNDr. Michal Hnatič, DrSc. (ÚEF SAV), prof. Ing. Vladimír Nečas, PhD. (FEI STU).

# 2. Vedecká činnosť

## 2.1. Domáce projekty

Tabuľka 2a Domáce projekty riešené v roku 2021

| ŠTRUKTÚRA PROJEKTOV | Počet | | Čerpané financie (€) | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | A | | | | B | |
| | | | Zo zdrojov SAV | | Z iných zdrojov | | Zo zdrojov SAV | Z iných zdrojov |
| | A | B | Spolu | Pre organizáciu | Spolu | Pre organizáciu | | |
| **1. Projekty VEGA** | 18 | 2 | 87503 | 83603 | 71081 | 71081 | 3276 | 5164 |
| **2. Projekty APVV** | 8 | 9 | - | - | 176949 | 220513 | - | 81146 |
| **3. Projekty EŠIF/OP ŠF** | 0 | 0 | - | - | - | - | - | - |
| **4. Projekty SASPRO, MoRePro** | 1 | 0 | 2865 | 2865 | - | - | - | - |
| **5. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)** | 0 | 1 | - | - | - | - | - | 27500 |

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

Tabuľka 2b Domáce projekty podané v roku 2021

| **Štruktúra projektov** | **Miesto podania** | **Organizácia je nositeľom projektu** | **Organizácia sa zmluvne podieľa na riešení projektu** |
|---|---|---|---|
| **1. Účasť na nových výzvach APVV r. 2021** | Bratislava | 6 | 3 |
| **2. Projekty výziev OP ŠF podané r. 2021** | Bratislava | | |
| | Regióny | | |

## 2.2. Medzinárodné projekty

### 2.2.1. Medzinárodné projekty riešené v roku 2021

Tabuľka 2c Medzinárodné projekty riešené v roku 2021

| ŠTRUKTÚRA PROJEKTOV | Počet | | Čerpané financie (€) | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | A | | | | B | |
| | A | B | Zo zdrojov SAV | | Z iných zdrojov | | Zo zdrojov SAV | Z iných zdrojov |
| | | | Spolu | Pre organizáciu | Spolu | Pre organizáciu | | |
| **1. Projekty Horizont 2020 a Horizont Európa** | 0 | 1 | - | - | - | - | - | 9304 |
| **2. Projekty ERA.NET, ESA, JRP** | 0 | 5 | - | - | - | - | 91666 | - |
| **3. Projekty COST** | 0 | 2 | - | - | - | - | 6458 | - |
| **4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné** | 1 | 1 | - | 2870 | 80000 | 18000 | - | 32636 |
| **5. Projekty v rámci medzivládnych dohôd** | 1 | 2 | - | - | - | - | - | - |
| **6. Bilaterálne projekty MAD, Mobility, Open Mobility** | 0 | 0 | - | - | - | - | - | - |
| **7. Bilaterálne projekty ostatné** | 1 | 0 | - | 4133 | - | - | - | - |
| **8. Podpora MVTS z národných zdrojov okrem SAV (APVV a iné)** | 0 | 2 | - | - | - | - | - | 9120 |
| **9. SAS-UPJŠ ERC Visiting Fellowship Grants** | 0 | 0 | - | - | - | - | - | - |
| **10. Iné projekty** | 0 | 0 | - | - | - | - | - | - |

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

### 2.2.2. Medzinárodné projekty Horizont Európa podané v roku 2021

Tabuľka 2d Počet projektov Horizont Európa v roku 2021

| | A | B |
|---|---|---|
| **Počet podaných projektov Horizont Európa** | | |

*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 Európskych štrukturálnych a investičných fondov v ďalších výzvach

## 2.3. Výber najvýznamnejších výsledkov vedeckej práce organizácie v roku 2021

*Slúži aj na výber výsledkov do výročnej správy SAV. Každý výsledok má byť charakterizovaný stručným, všeobecne zrozumiteľným popisom – maximálne 1000 znakov + 1 obrázok; bibliografický údaj uvádzajte rovnako ako v zozname publikačnej činnosti, vrátane IF. Nadpis by mal vystihnúť prínos a význam výsledku – podľa možnosti by nemal byť zredukovaný na názov/nadpis publikačného výstupu.*

### 2.3.1. Výsledky na báze základného výskumu

**Názov: Štúdium hybridných organicko-anorganických a organických vrstiev pre fotovoltiku a iné optoelektronické aplikácie**

**Autori:** N. Mrkývková, P. Šiffalovič, K. Gmucová, V. Nádaždy, V. Held, A. Brunová, P. Nádaždy, K. Végsö, E. Majková, M. Jergel

Hybridné organicko-anorganické vrstvy s perovskitovou štruktúrou sú intenzívne študované pre unikátne optoelektronické vlastnosti a vysokú fotokonverznú účinnosť. V spojení s nízkou cenou a jednoduchou prípravou sú výhodnou alternatívou tradičnej fotovoltiky založenej na kryštalickom kremíku. Ich vlastnosti však veľmi týchlo degradujú vznikom defektov počas kryštalizácie perovskitovej vrstvy z roztoku prekurzora. S cieľom optimalizovať prípravu perovskitovej vrstvy sme v prvej časti návrhu študovali kinetiku kryštalizácie, tvorbu defektov a ich vplyv na fotokonverziu metódou in-situ GIWAXS a meraním luminiscencie v reálnom čase, ktoré boli doplnené o ex-situ metódy a simulácie molekulárnej dynamiky. Ukázali sme pozitívny vplyv podkladovej 2D vrstvy ako grafén na rast silne texturovanej vrstvy 2D perovskitu [1] a podobný efekt sme dosiahli aj vhodnou prímesou prekurzora [2].
Zistili sme zásadný vplyv hraníc zŕn ako defektných centier pre nežiarivú rekombináciu v 3D perovskite [3]. Našli sme úzke časové okno pre pulzné laserové žíhanie perovskitovej vrstvy metódou FIRA [4], čo otvára možnosť kontinuálnej prípravy solárnych článkov metódou "roll-to-roll". V oblasti organických molekulárnych vrstiev (druhá časť návrhu) sme sa zamerali na koreláciu štruktúry a optoelektronických vlastností, kde kľúčovú úlohu hrá orientácia molekúl. Súvis molekulovej a elektrónovej štruktúry sme študovali na vrstvách rôznych stereoizomérov vybraných polymérov metódami GIWAXS a ER-EIS a v kombinácii s DFT simuláciami sme objasnili, ako priestorová chemická štruktúra molekuly ovplyvňuje vlastnosti vrstvy [5]. Osobitne sme sa venovali štúdiu orientačných defektov v uniformne orientovaných molekulárnych vrstvách metódou SNOM a ukázali sme, že jedine optická amplitúda a nie fáza rozptýleného IR žiarenia poskytuje neskreslenú topografiu defektov [6]. Metódami UV-vis spektroskopie, fotoluminiscencie a ER-EIS podporených DFT simuláciami sme študovali nové deriváty vybraných organických polovodičov z hľadiska ich vhodnosti pre optoelektronické a fotovoltické aplikácie [7, 8]. Vplyv usporiadania organických konjugovaných molekúl v kopolyméroch typu donor-akceptor na funkcionalitu fotonického elementu sme zhrnuli v prehľadovom článku [9].

1. P. Kovaříček, P. Nádaždy, E. Pluhárová, A. Brunová, R. Subair, K. Vegso, V.L.P. Guerra, O.Volochanskyi, M. Kalbac, A. Krasnansky, P. Pandit, S.V. Roth, A. Hinderhofer, E. Majková, M. Jergel, J. Tian, F. Schreiber, P. Šiffalovič: Crystallization of 2D Hybrid Organic–Inorganic Perovskites Templated by Conductive Substrates. Adv. Funct. Mater. 31 (2021) 2009007. **IF 18.81** https://doi.org/10.1002/adfm.202009007
2. Huang, F.; Siffalovic, P.; Li, B.; Yang, S.; Zhang, L.; Nadazdy, P.; Cao, G.; Tian, J., Controlled Crystallinity and Morphologies of 2D Ruddlesden-Popper Perovskite Films Grown without Anti-Solvent for Solar Cells. Chem. Eng. J. 394 (2020), 124959, **IF 13.27** https://doi.org/10.1016/j.cej.2020.124959
3. N. Mrkývková, V. Held, P. Nádaždy, R. Subair, E. Majková, M. Jergel, A. Vlk, M. Ledinský, M. Kotlár, J. Tian, P. Šiffalovič: Combined in Situ Photoluminescence and X-ray Scattering Reveals Defect Formation in Lead-Halide Perovskite Films. J. Phys. Chem. Lett. 12 (2021) 10156. **IF 6.48** https://doi.org/10.1021/acs.jpclett.1c02869
4. Brunová, K. Vegso, V. Nádaždy, P. Nádaždy, R. Subair, M. Jergel, E. Majková, P. Pandit, S. V. Roth, A. Krasňanský, A. Hinderhofer, F. Schreiber, J. Tian, P. Šiffalovič: Structural and Trap-State Density Enhancement in Flash Infrared Annealed Perovskite Layers. Adv. Mater. Interfaces 8 (2021) 2100355. **IF 6.15** https://doi.org/10.1002/admi.202100355
5. K. Gmucová, M. Konôpka, K. Vegso, P. Bokes, V. Nádaždy, T. Váry: Correlation between Molecular Stereostructure, Film Microstructure, and Electronic Structure of Polyfluorene and Fluorene Based Alternating Copolymers F8BT and PFO−DBT. J. Phys. Chem. C 125 (2021) 8045. **IF 4.13** https://doi.org/10.1021/acs.jpcc.0c10725N.
6. Mrkývková, A. Cernescu, Z. Futera, A. Nebojsa, A. Dubroka, M. Sojková, M. Hulman, E. Majková, M. Jergel, P. Šiffalovič, F. Schreiber: Nanoimaging of Orientational Defects in Semiconducting Organic Films. J. Phys. Chem. C 125 (2021) 9229. **IF 4.13** https://doi.org/10.1021/acs.jpcc.1c00059
7. L. Feriancová, M. Cigáň, K. Gmucová, J. Kožíšek, V. Nádaždy, M. Putala: Effect of electron-withdrawing groups on molecular properties of naphthyl and anthryl bithiophenes as potential n-type semiconductors. New J. Chem. 45 (2021) 9794. **IF 3.59** https://doi.org/10.1039/D1NJ01100F
8. Z. Tokárová, P. Maxianova, T. Váry, V. Nádaždy, D. Vegh, K. Tokár: Thiophene-centered azomethines: Structure, photophysical and electronic properties. J. Mol. Structure 1204 (2020) 127492. **IF 3.2** https://doi.org/10.1016/j.molstruc.2019.127492
9. K.Gmucová : Structural properties versus electronic structure of donor-acceptor alternating copolymers: A review Synthetic Metals 274 (2021), 116718, **IF 3.26** https://doi.org/10.1016/j.synthmet.2021.116718

Ďalej bez udania poradia:

- Predpovedanie správania neutrónových EM formfaktorov len za pomoci protónových EM formfaktorových údajov, Autori: A.Z.Dubničková, S.Dubnička (OTF)
- Higher Accuracy Order in Differentiation-by-Integration, Autor: A. Liptaj (OTF)
- Previazanie a kvantová kryptografia: Od teórie k praxi, Autori: M. Pivoluska, M. Plesch (OKFS)
- Kvantové termodynamické merania a termodynamika kvantového procesu merania, Autor: M. Hamed Mohammady (CVKI)

### 2.3.2. Výsledky aplikačného typu

**Názov: Magnetické vlastnosti a štruktúra amorfných a nanokryštalických Fe/Co-Sn/P-B kovových pások**

**Autori:** B. Butvinová a kol. autorov oddelenia OFK (APVV-19-0369, VEGA 2/0144/21, stimuli HEES4T)

Nové zliatiny pripravené rýchlym ochladením taveniny na báze Fe s obsahom cínu a nízkou substitúciou fosforu majú dobré magneticky mäkké vlastnosti a vysokú hodnotu saturačnej indukcie. Substitúcia P znižuje vzájomné silové pôsobenie tým, že brzdí tvorbu kryštalickej fázy počas žíhania najmä pri nižšej teplote a znižuje napätie v páske. Zistené vlastnosti ich posúvajú k možnostiam významného využitia v elektrotechnickom priemysle ako energeticky účinné jadrá transformátorov, snímače mechanického namáhania, či senzory. Výskum vlastností týchto materiálov poukázal na výhody a porovnateľnosť s doteraz vyvinutými a už využívanými kovovými sklami či nanokryštalickými zliatinami na báze Fe, ako sú Finemety, Nanopermy a Hitpermy.

1. BUTVINOVÁ, Beata** - ŠVEC, Peter - JANOTOVÁ, Irena - FOS, Alen - MAŤKO, Igor – JANIČKOVIČ, Dušan. Magnetic and structural properties of (Fe-Co)83(Sn-P)5B12 alloys with high saturation. In Journal of Magnetism and Magnetic Materials, 2021, vol. 535, 168069. (2020: 2.993 - IF, Q2 - JCR, 0.665 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0304-8853. Dostupné na: https://doi.org/10.1016/j.jmmm.2021.168069 Typ: ADCA
2. BUTVINOVÁ, Beata** - BUTVIN, Pavol - MAŤKO, Igor - ŠVEC, Peter - KADLEČÍKOVÁ, Magdaléna. Impact of surfaces on the magnetic properties of Fe-based nanocrystalline ribbons. In Applied Surface Science, 2021, vol. 538, art. no. 147942. (2020: 6.707 - IF, Q1 - JCR, 1.295 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0169-4332. Dostupné na: https://doi.org/10.1016/j.apsusc.2020.147942 Typ: ADCA
3. BUTVINOVÁ, Beata** - SITEK, Jozef - SEDLAČKOVÁ, Katarína - DEKAN, Július – ŠAGÁTOVÁ, Andrea - JANOTOVÁ, Irena - ŠVEC, Peter. Magnetic and structural properties of electron irradiated Fe(Co)SnB alloys. In AIP Conference Proceedings, 2021, vol. 2411, art. no. 080003. (2020: 0.177 - SJR). ISSN 0094-243X.
Dostupné na: https://doi.org/10.1063/5.0067419 Typ: ADMB
4. FOS, Alen** - ŠVEC, Peter - ŠVEC, Peter Jr. - JANOTOVÁ, Irena - JANIČKOVIČ, Dušan – TIWARI, Rupali - BÚRAN, Marek. Effect of annealing on microstructure of rapidly quenched Fe-Sn-B based alloys. In AIP Conference Proceedings, 2021, vol. 2411, art. no. 050003. (2020: 0.177 - SJR). ISSN 0094-243X. Dostupné na: https://doi.org/10.1063/5.0067311 Typ: ADMB

Ďalší prihlásený výsledok:

- Komôrka na štúdium fotopolymerizácie metódou pozitrónovej anihilácie (patent č. 288901), Autori: O. Šauša, H. Švajdlenková (OTF)

### 2.3.3. Výsledky na báze medzinárodnej spolupráce

**Názov: Vplyv elektrónovej štruktúry a defektných stavov na procesy náboja v organických polyméroch a perovskitoch**

**Autori:** V. Nádaždy, P. Šiffalovič, K.Végsö, R. Subair, M. Majková (COST CA15107, SK-CN-RD-18-0006, V4/Korea/JRP/2018/69/PPL)

Návrh je venovaný medzinárodnej spolupráci v oblasti štúdia základných mechanizmov generovania a extrakcie voľných nosičov náboja v solárnych článkoch z organických polymérov a hybridných organicko-anorganických perovskitov. Napriek ich vysokým konverzným účinostiam (>18% resp. >25%) plné pochopenie týchto javov absentuje. Výzvou je predovšetkým zistiť ich spojitosť s malými zmenami v elektrónovej štruktúre a morfológii aktívnej vrstvy. Do mnohostrannej medzinárodnej spolupráce v tejto oblasti sme sa zapojili štúdiom elektrónovej štruktúry metódou ER-EIS vyvinutou v našom laboratóriu a analýzou molekulárnej štruktúry metódou GIWAXS.
Výsledky meraní tenkých vrstiev čistých organických polovodičov (P3HT, MeLPPP, SF-PDI2, PCBM) a ich zmesí (MeLPPP:SF-PDI2 a MeLPP:PCBM) [1] potvrdili teoretickú predpoveď o Gaussovej distribúcií hustoty stavov. Zároveň sme zistili, že pre zmesové vrstvy dochádza k zväčšeniu pološírky distribúcií, čo nebolo doteraz možné experimentálne pozorovať a kvantifikovať.
Na súbore zmesových vrstiev polymérov s akceptorovými molekulami sme určili posun medzi energetickými pásmi na rozhraní polymér/akceptor, ktorý určuje fotoindukovaný prenos náboja v organických solárnych článkoch a efektivitu generácie voľného náboja z viazaného stavu (excitónu) do transportných pásov bez alebo s prekonaním energetickej bariéry [2].
V systematickej štúdii vrstiev polyméru PTB7-Th s nefullerénovými akceptormi sme objasnili kumulatívne efekty napäťových strát, účinnosti generácie náboja, dynamiky rekombinácie a extrakcie náboja, jemných morfologických rozdielov a ich súvislosť s účinnosťou solárnych článkov [3].
Vo vrstve P3HT nanesenej na substráte ITO sme identifikovali metódou GIWAXS prítomnosť dvoch polymorfných fáz, ktoré indukujú pás defektných stavov nad pásom HOMO [4]. Tento pás stavov neznižuje pohyblivosť náboja, ale spôsobuje pokles fotoluminiscencie.
Študovali sme optoelektronické vlastnosti polymérnych laserových diód s prísadou nanočastíc Al-ZnO, ktoré desaťnásobne zvyšujú ich konverznú účinnosť, a ukázali sme, že toto zlepšenie priamo súvisí so sprievodnými zmenami elektrónovej štruktúry [5].
Vypracovali sme stratégiu prípravy stabilnej perovskitovej vrstvy α-FAPbI3 so zlepšenou kryštalickou štruktúrou a nízkou koncentráciou defektných stavov, čo umožnilo pripraviť stabilný solárny článok s vysokou konverznou účinnosťou 21% [6].
Spolupracovali sme na vývoji novej organickej vrstvy s dierovou vodivosťou, ktorej funkčnosť sme demonštrovali na laboratórnom perovskitovom solárnom článku [7].


1. H. Bässler, D. Kroh, F. Schauer, V. Nádaždy, A. Köhler: Mapping the Density of States Distribution of Organic Semiconductors by Employing Energy Resolved–Electrochemical Impedance Spectroscopy. Adv. Funct. Mater. 31 (2021) 2007738. **IF 18.81**, cit. 2 https://doi.org/10.1002/adfm.202007738
2. S. Alam, V. Nádaždy, T. Váry, Ch. Friebe, R. Meitzner, J. Ahner, A. Anand, S. Karuthedath, C. De Castro, C. Göhler, S. Dietz, J. Cann, Ch. Kästner, A. Konkin, W. Beenken, A. Anton, Ch. Ulbricht, A. Sperlich, M. Hager, U. Ritter, F. Kremer, O. Brüggemann, U. Schubert, D.

Egbe, G. Welch, V. Dyakonov, C. Deibel, F. Laquai, H. Hoppe: Uphill and Downhill Charge Generation from Charge Transfer to Charge Separated States in Organic Solar Cells. J. Mater. Chem. C, 9 (2021) 14463. **IF 7.39** https://doi.org/10.1039/D1TC02351A

3. A.Karki, J. Vollbrecht, A. J. Gillett, P. Selter, J. Lee, Z. Peng, N. Schopp, A. L. Dixon, M. Schrock, V. Nádaždy, F. Schauer, H. Ade, B. F. Chmelka, G. C. Bazan, R. H. Friend, T.Q. Nguyen: Unifying Charge Generation, Recombination, and Extraction in Low-Offset Non-Fullerene Acceptor Organic Solar Cells. Adv. Energy Mater. 10 (2020), 2001203. **IF 29.37**, cit. 30 https://doi.org/10.1002/aenm.202001203
4. S. Kotorová, T. Váry, J. Chlpík, J. Toušek, J. Toušková, R. Rutsch, K. Vegso, P. Šiffalovič, V. Nádaždy, E. Majková, J. Cirák: The influence of surface roughness on the presence of polymorphs and defect states in P3HT layers. Appl. Surf. Sci. 573 (2022) 151539. **IF 6.71** https://doi.org/10.1016/j.apsusc.2021.151539
5. J. Sevčík P. Urbánek, D. Škoda, T. Jamatia, V. Nádaždy, M. Urbánek, J. Antoš, L. Munster, I. Kuřitka: Energy resolved-electrochemical impedance spectroscopy investigation of the role of Al-doped ZnO nanoparticles in electronic structure modification of polymer nanocomposite LEDs. Mater. Des. 205 (2021) 109738. **IF 7.99**, cit. 1 https://doi.org/10.1016/j.matdes.2021.109738
6. J. Xi, H. Wang, J. Yuan, X. Yan, P. Šiffalovič, J. Tian: High-Quality α-FAPbI3 Film Assisted by Lead Acetate for Efficient Solar Cells. Sol. RRL 5 (2021) 2100747. **IF 8.58** https://doi.org/10.1002/solr.202100747
7. K.A. Bogdanowicz, B. Jewłoszewicz, A. Iwan, K. Dysz, W. Przybyl, A. Januszko, M. Marzec, K. Cichy, K. Swierczek, L. Kavan, M. Zukalová, V. Nádaždy, R. Subair, E. Majková, M. Mičušík, M. Omastová, M. D. Özeren, K. Kamaras, D. Y. Heo, S. Y. Kim: Selected Electrochemical Properties of 4,4’-((1E,1’E)-((1,2,4-Thiadiazole-3,5-diyl)bis(azaneylylidene))bis(methaneylylidene))bis(N,N-di-p-tolylaniline) towards Perovskite Solar Cells with 14.4% Efficiency. Materials 13 (2020), 2440. **IF 3.62**, cit. https://doi.org/10.3390/ma13112440

Ďalší prihlásený výsledok:

- Electron dynamics of tip-tunable oxygen species on $TiO_2$ surface, Autori: I. Štich, A. Brndiar (OKFS)

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

Tabuľka 2e Štatistika vybraných kategórií publikácií

| PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ | Počet v r. 2021/ doplnky z r. 2020 |
|---|---|
| **1. Vedecké monografie a monografické štúdie vydané v domácich vydavateľstvách** (AAB, ABB) | **0 / 0** |
| **2. Vedecké monografie a monografické štúdie vydané v zahraničných vydavateľstvách** (AAA, ABA) | **0 / 0** |
| **3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané v domácich vydavateľstvách** (BAB, ACB, CAB) | **0 / 0** |
| **4. Odborné monografie a vysokoškolské učebnice a učebné texty vydané v zahraničných vydavateľstvách** (BAA, ACA, CAA) | **0 / 0** |
| **5. Kapitoly vo vedeckých monografiách vydaných v domácich vydavateľstvách** (ABD) | **0 / 0** |
| **6. Kapitoly vo vedeckých monografiách vydaných v zahraničných vydavateľstvách** (ABC) | **0 / 0** |
| **7. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v domácich vydavateľstvách** (BBB, ACD) | **0 / 0** |
| **8. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v zahraničných vydavateľstvách** (BBA, ACC) | **0 / 0** |
| **9. Vedecké práce registrované v Current Contents Connect** (ADCA, ADCB, ADDA, ADDB) | **98 / 0** |
| **10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus** (ADMA, ADMB, ADNA, ADNB) | **19 / 0** |
| **11. Vedecké práce v ostatných domácich časopisoch** (ADFA, ADFB) | **0 / 0** |
| **12. Vedecké práce v ostatných zahraničných časopisoch** (ADEA, ADEB) | **1 / 0** |
| **13. Vedecké práce v domácich recenzovaných zborníkoch** (AEDA) | **0 / 0** |
| **14. Vedecké práce v zahraničných recenzovaných zborníkoch** (AECA) | **0 / 0** |
| **15. Publikované príspevky na domácich vedeckých konferenciách** (AFB, AFD) | **3 / 0** |
| **16. Publikované príspevky na zahraničných vedeckých konferenciách** (AFA, AFC) | **0 / 0** |
| **17. Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS** | **0** |
| **18. Ostatné vydané periodiká** | **0** |
| **19. Zostavovateľské práce knižného charakteru** (FAI) | **2 / 0** |
| **20. Preklady vedeckých a odborných textov** (EAJ) | **1 / 0** |
| **21. Heslá v odborných terminologických slovníkoch a encyklopédiách** (BDA, BDB) | **0 / 0** |
| **22. Recenzie v časopisoch a zborníkoch** (EDI) | **0 / 0** |

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

Tabuľka 2f Štatistika vedeckých prác podľa kvartilu vedeckého časopisu

| Kvartil vedeckého časopisu | Q1 | Q2 | Q3 | Q4 | Spolu |
|---|---|---|---|---|---|
| **Podľa IF z r. 2020 (zdroj JCR)**<br>*Počet článkov / doplnky* | 42 / 0 | 51 / 0 | 6 / 0 | 5 / 0 | 104 / 0 |
| **Podľa SJR z r. 2020 (zdroj Scimago)**<br>*Počet článkov / doplnky* | 87 / 0 | 15 / 0 | 3 / 0 | 12 / 0 | 117 / 0 |

Tabuľka 2g Ohlasy

| OHLASY | Počet v r. 2020/ doplnky z r. 2019 |
|---|---|
| **Citácie vo WOS (1.1, 2.1)** | 3857 / 1 |
| **Citácie v SCOPUS (1.2, 2.2)** | 65 / 0 |
| **Citácie v iných citačných indexoch a databázach (9, 10, 3.2, 4.2)** | 0 / 0 |
| **Citácie v publikáciách neregistrovaných v citačných indexoch (3, 4, 3.1, 4.1)** | 17 / 0 |
| **Recenzie na práce autorov z organizácie (5, 6, 7, 8)** | 2 / 0 |

### 2.5. Aktívna účasť na vedeckých podujatiach

Tabuľka 2h Vedecké podujatia

| | |
|---|---|
| **Prednášky a vývesky na medzinárodných vedeckých podujatiach** | 14 |
| **Prednášky a vývesky na národných vedeckých podujatiach** | 9 |

### 2.6. Vyžiadané prednášky

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

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

RNDr. Marek Mihalkovič, CSc.
13. — 16. 12. 2021, Materials Research Meeting 2021, Pacifico Yokohama, Japonsko, „Coherent interface between clathrate and diamond structures“

Ing. Peter Švec, DrSc.
22. — 26. 8. 2021, MC 2021 Microscopy Conference, Viedeň, Rakúsko, www.mc2021.at, „Phase evolution clarification in Al-Ni-Co-RE amorphous alloys with varying Ni/Co ratio“
21. — 27. 10. 2021, 7th International Conference on Superconductivity and Magnetism (ICSM2021), Milas-Bodrum, Turecko, „Tailoring of GMI sensor characteristics of soft magnetic ribbons by layering and magnetic field annealing“

doc. Mário Ziman, PhD.
14. —17.6.2021, 52 Symposium on Mathematical Physics *"Channels, Maps and All That"* ,Torun, Poľsko, „Probabilistic storing of quantum dynamics“

#### 2.6.2. Vyžiadané prednášky na národných vedeckých podujatiach

prof. Ing. Štefan Luby, DrSc.
9. — 10. 9. 2021, 38. Technologické dni, Farm. fakulta UK, Bratislava, Slovensko, „Nanoscience, from manipulation of atoms to human needs“

Ing. Ján Ivančo, DrSc.
8. 9. 2021, 25. konferencia SFS, Bratislava, Slovensko, „Electronic Structure of Molecular Films and Associated Interfaces“

prof. Ing. Štefan Luby, DrSc.
6. 9. 2021, 25. konferencia SFS, Bratislava, Slovensko, „Slovenská fyzika v informačnom veku - zisky a straty“
9. 9. 2021, 38. Technologické dni, UK, Bratislava, Slovensko, „Nanoscience, from manipulation of atoms to human needs“

Mgr. Martin Venhart, PhD.
8. 9. 2021, 25. konferencia SFS, Bratislava, Slovensko, „Nuclear structure of light Au isotopes“

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

—

**2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2021**

**2.7.1. Vynálezy, na ktoré bol v roku 2021 udelený patent**

**a) na Slovensku**

Názov vynálezu: Komôrka na štúdium fotopolymerizácie metódou pozitrónovej anihilácie
Číslo patentu: 288901
Dátum priority: 16.11.2017
Majiteľ / spolumajiteľ: Ústav polymérov SAV; Fyzikálny ústav SAV
Pôvodcovia vynálezu: Šauša Ondrej, Švajdlenková Helena

**b) v zahraničí**

**2.7.2. Vynálezy prihlásené v roku 2021**

**a) na Slovensku**

**b) v iných krajinách ako prioritná prihláška**

**c) PCT**

**d) EP**

**e) v iných krajinách v rámci tzv. národnej fázy po PCT, resp. po validácii EP**

**2.7.3. Úžitkové vzory na Slovensku**

**a) prihlásené v roku 2021**

Názov UV: Štvorodrazový rtg. monochromátor na vysokorozlišovaciu rtg. difrakciu
Číslo UV: 50014-2021
Dátum prihlášky: 17.2.2021
Majiteľ / spolumajiteľ UV: Fyzikálny ústav Slovenskej akadémie vied, Bratislava, SK
Pôvodcovia UV: Jergel Matej, Nádaždy Peter, Šiffalovič Peter

**b) udelené v roku 2021**

### 2.7.4. Realizované vynálezy

**a) predané patenty resp. prihlášky vynálezov (v prípade úplnej zmeny majiteľa patentu)**

**b) predané licencie (v prípade že majiteľom ostáva organizácia SAV)**

*Finančný prínos pre organizáciu SAV v roku 2021 a súčet za predošlé roky sa neuvádzajú, ak je zverejnenie v rozpore so zmluvou súvisiacou s realizáciou patentu.*

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

Tabuľka 2i Experti hodnotiaci národné projekty

| Meno pracovníka | Typ programu/projektu/výzvy | Počet hodnotených projektov |
|---|---|---|
| Bartoš Erik | APVV SK-PL | 1 |
| | VEGA | 3 |
| Butvinová Beata | VEGA | 1 |
| Ivančo Ján | VEGA | 1 |
| Jergel Matej | APVV SK-PL-21 | 1 |
| | VEGA | 2 |
| Kalinay Pavol | VEGA | 2 |
| Liptaj Andrej | VEGA | 1 |
| Plesch Martin | APVV | 1 |
| Švec Peter | VEGA | 3 |
| Tokár Kamil | VEGA | 1 |

## 2.9. Účasť na spracovaní hesiel do encyklopédie Beliana

Počet autorov hesiel: 1 (Š. Luby 62 hesiel)

## 2.10. Recenzovanie knižných publikácií a príspevkov vo vedeckých časopisoch

Tabuľka 2j Počet vypracovaných recenzií na vedecké monografie, vedecké štúdie a zborníky

| Meno pracovníka | Ved. monografie | | Príspevky v časopisoch | | | Zborníky | |
|---|---|---|---|---|---|---|---|
| | Domáce | Zahra-ničné | WoS, SCOPUS | Iné databázy | Ostatné | Domáce | Zahra-ničné |
| Annušová Adriana | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Bartoš Erik | 0 | 0 | 4 | 0 | 0 | 0 | 0 |
| Boháč Vlastimil | 0 | 0 | 2 | 0 | 0 | 0 | 2 |
| Butvinová Beata | 0 | 0 | 1 | 1 | 0 | 0 | 2 |
| Gendiar Andrej | 0 | 0 | 6 | 0 | 0 | 0 | 0 |
| Gmucová Katarína | 0 | 0 | 8 | 0 | 0 | 0 | 0 |
| Ivančo Ján | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Jergel Matej | 0 | 0 | 4 | 0 | 0 | 0 | 0 |
| Kalinay Pavol | 0 | 0 | 6 | 0 | 0 | 0 | 0 |
| Luby Štefan | 2 | 0 | 2 | 0 | 0 | 0 | 0 |
| Martinovič Lubomir | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| Matoušek Vladislav | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| Pivoluska Matej | 0 | 0 | 7 | 0 | 0 | 0 | 0 |
| Plesch Martin | 0 | 0 | 10 | 0 | 0 | 0 | 0 |
| Švec Peter | 0 | 0 | 6 | 2 | 0 | 0 | 2 |
| Venhart Martin | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Ziman Mario | 0 | 0 | 8 | 0 | 0 | 0 | 0 |
| **Spolu** | **2** | **0** | **71** | **3** | **0** | **0** | **6** |

### 2.11. Iné informácie k vedeckej činnosti.

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

## 3.1. Údaje o doktorandskom štúdiu

Tabuľka 3a Počet doktorandov v roku 2021

<table>
<tr><th rowspan="2">Forma</th><th colspan="4" rowspan="2">Počet k 31.12.2021</th><th colspan="2" rowspan="3">Počet doktorandov po doktorandskej skúške</th><th colspan="6">Počet ukončených doktorantúr v r. 2021</th></tr>
<tr><th colspan="6">Ukončenie z dôvodov</th></tr>
<tr><th rowspan="2"></th><th colspan="2">celkový počet</th><th colspan="2">z toho novoprijatí</th><th colspan="2">ukončenie úspešnou obhajobou</th><th colspan="2">predčasné ukončenie</th><th colspan="2">neúspešné ukončenie</th></tr>
<tr><th>M</th><th>Ž</th><th>M</th><th>Ž</th><th>M</th><th>Ž</th><th>M</th><th>Ž</th><th>M</th><th>Ž</th><th>M</th><th>Ž</th></tr>
<tr><td>Denná zo zdrojov SAV</td><td>13</td><td>6</td><td>4</td><td>1</td><td>6</td><td>5</td><td>2</td><td>1</td><td>3</td><td>0</td><td>0</td><td>0</td></tr>
<tr><td>Denná z iných zdrojov</td><td>3</td><td>1</td><td>2</td><td>0</td><td>2</td><td>0</td><td>1</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr>
<tr><td>Externá</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr>
<tr><td>Spolu</td><td>16</td><td>7</td><td>6</td><td>1</td><td>8</td><td>5</td><td>3</td><td>1</td><td>3</td><td>0</td><td>0</td><td>0</td></tr>
<tr><td>Z toho zahraničných</td><td>10</td><td>3</td><td>4</td><td>0</td><td>2</td><td>3</td><td>1</td><td>1</td><td>2</td><td>0</td><td>0</td><td>0</td></tr>
<tr><td>Súhrn</td><td colspan="2">23</td><td colspan="2">7</td><td colspan="2">13</td><td colspan="2">4</td><td colspan="2">3</td><td colspan="2">0</td></tr>
</table>

*Uvádzajte len doktorandov organizácie ako externej vzdelávacej inštitúcie.*
*Riadok „Spolu“ je súčtom troch riadkov nad ním. Každá bunka v riadku „Súhrn“ vyjadruje celkový počet doktorandov (mužov a žien spolu), čiže je súčtom príslušných dvoch buniek z riadku „Spolu“. V stĺpci „Počet doktorandov po doktorandskej skúške“ sa uvádza počet doktorandov, ktorí počas roku 2021 boli aspoň 1 deň doktorandami po doktorandskej skúške. Sú číselne zahrnutí aj v predchádzajúcich stĺpcoch.*
*Pod predčasným ukončením rozumieme ukončenie bez obhajoby dizertačnej práce pričom doktorand neabsolvoval celú štandardnú dĺžku štúdia. Pod neúspešným ukončením rozumieme ukončenie bez úspešnej obhajoby dizertačnej práce, pričom študent absolvoval celú štandardnú dĺžku štúdia.*

## 3.2. Zmena formy doktorandského štúdia

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

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

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

Tabuľka 3c Menný zoznam ukončených doktorandov v roku 2021 úspešnou obhajobou

| Meno doktoranda | Forma DŠ | Mesiac, rok nástupu na DŠ | Mesiac, rok obhajoby | Číslo a názov študijného odboru | Meno a organizácia školiteľa | Fakulta udeľujúca vedeckú hodnosť |
|---|---|---|---|---|---|---|
| Mgr. Jakub Hagara | interné štúdium hradené z prostriedkov SAV | 9 / 2017 | 3 / 2021 | 4.1.4 kvantová elektronika a optika | Dr. Rer. Nat. Peter Šiffalovič DrSc., Fyzikálny ústav SAV | Fakulta matematiky, fyziky a informatiky UK |
| MSc. Ashin Shaji | interné štúdium hradené z prostriedkov SAV | 10 / 2017 | 8 / 2021 | 4.1.4 kvantová elektronika a optika | Dr. Rer. Nat. Peter Šiffalovič DrSc., Fyzikálny ústav SAV | Fakulta matematiky, fyziky a informatiky UK |
| Mgr. Rupali Tiwari | interné štúdium hradené z prostriedkov SAV | 10 / 2018 | 8 / 2021 | 5.2.48 fyzikálne inžinierstvo | Ing. Vlastimil Boháč CSc., Fyzikálny ústav SAV | Fakulta elektrotechniky a informatiky STU |

### 3.4. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou v nadštandardnej dĺžke štúdia

Tabuľka 3d Menný zoznam ukončených doktorandov v roku 2021 úspešnou obhajobou v nadštandardnej dĺžke štúdia

| Meno doktoranda | Forma DŠ | Mesiac, rok nástupu na DŠ | Mesiac, rok obhajoby | Číslo a názov študijného odboru | Meno a organizácia školiteľa | Fakulta udeľujúca vedeckú hodnosť |
|---|---|---|---|---|---|---|
| Mgr. Matúš Balogh | interné štúdium hradené z iných zdrojov | 9 / 2016 | 2 / 2021 | 4.1.5 jadrová a subjadrová fyzika | Mgr. Martin Veselský PhD., Fyzikálny ústav SAV | Fakulta matematiky, fyziky a informatiky UK |

### 3.5. Uplatnenie absolventov doktorandského štúdia

Tabuľka 3e Prehľad uplatnenia absolventov doktorandského štúdia

| Počet absolventov PhD. štúdia v roku 2021 (obhajoba leto 2021) | z toho koľkí sa zamestnali vo výskume (SAV, univerzity, rezortné výskumné ústavy) | z toho koľkí sa zamestnali v praxi mimo výskum, kde využívajú svoju kvalifikáciu | z toho koľkí sa zamestnali v praxi, kde nevyužívajú svoju kvalifikáciu | z toho koľkí boli nejaký čas nezamestnaní |
|---|---|---|---|---|
| 2 | 1 | 0 | 0 | 0 |

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

### 3.6. Medzinárodné doktorandské štúdium

Tabuľka 3f Počet študentov v medzinárodných programoch doktorandského štúdia

| Cotutelle | Co-direction | Iné | Zahraniční doktorandi štátne občianstvo/počet |
|---|---|---|---|
| 1 | 0 | 0 | IND/6, PAK/4, IRN/3, MEX/2, KAZ/1, SRB/1 |

*Zahraniční doktorandi sú doktorandi v dennej alebo externej forme štúdia, ktorí sú občanmi iných krajín. Doktorandi školení v rámci Cotutelle alebo Co-direction sa do posledného stĺpca nezapočítavajú.*

### 3.7. Zoznam študijných odborov, na ktoré má ústav uzatvorenú rámcovú dohodu, s uvedením VŠ

Tabuľka 3g Zoznam študijných odborov, na ktoré má ústav uzatvorenú rámcovú dohodu, s uvedením univerzity/vysokej školy a fakulty, kde sa doktorandský študijný program uskutočňuje

| Názov študijného odboru (ŠO) | Číslo ŠO | Názov doktorandského študijného programu | Doktorandské štúdium uskutočňované na (univerzita/vysoká škola a fakulta) |
|---|---|---|---|
| všeobecná fyzika a matematická fyzika | 4.1.2 | Teoretická fyzika a matematická fyzika | Fakulta matematiky, fyziky a informatiky UK |
| fyzika kondenzovaných látok a akustika | 4.1.3 | | Fakulta matematiky, fyziky a informatiky UK |
| kvantová elektronika a optika | 4.1.4 | Kvantová elektronika, optika a optická spektroskopia | Fakulta matematiky, fyziky a informatiky UK |
| jadrová a subjadrová fyzika | 4.1.5 | | Fakulta matematiky, fyziky a informatiky UK |
| fyzikálne inžinierstvo | 5.2.48 | | Fakulta elektrotechniky a informatiky STU |

*Názov a číslo študijného odboru vyplňte/vyberte podľa aktuálne platného zoznamu študijných odborov https://www.portalvs.sk/sk/studijne-odbory?from=menu1.*
*Do 31. 8. 2023 študujú študenti doktorandského štúdia zaradení do študijných programov podľa zoznamu MŠVVaŠ, platného do 1. 9. 2019. Pre týchto študentov je potrebné napísať názov programu ako voľný text do stĺpca 3.*

Tabuľka 3h Účasť na pedagogickom procese

| Menný prehľad pracovníkov, ktorí boli menovaní do 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 |
|---|---|---|
| Doc. RNDr. Emil Běták, DrSc. | Doc. RNDr. Emil Běták, DrSc. | Dr. Rer. Nat. Peter Šiffalovič, |

| | | |
|---|---|---|
| (všeobecná fyzika a matematická fyzika) | (Filozoficko-přírodovědecká fakulta Slezské univerzity, Česká republika) | DrSc. (I) |
| Doc. RNDr. Emil Běták, DrSc. (jadrová a subjadrová fyzika) | Prof. RNDr. Vladimír Bužek, DrSc. (Fakulta matematiky, fyziky a informatiky UK) | RNDr. Lubomir Martinovič, CSc. (DrSc., Slovenská Akadémia Vied) |
| Doc. RNDr. Emil Běták, DrSc. (odbor v zahraničí) | prof. Ing. Štefan Luby, DrSc. (Alma Mater Europaea Ascoli Piceno, Taliansko) | |
| Ing. Vlastimil Boháč, CSc. (fyzikálne inžinierstvo) | prof. Ing. Ivan Štich, DrSc. (Fakulta prírodných vied UCM) | |
| Prof. RNDr. Vladimír Bužek, DrSc. (všeobecná fyzika a matematická fyzika) | Mgr. Martin Venhart, PhD. (Materiálovotechnologická fakulta STU v Trnave) | |
| RNDr. Stanislav Dubnička, DrSc. (všeobecná fyzika a matematická fyzika) | | |
| RNDr. Stanislav Dubnička, DrSc. (jadrová a subjadrová fyzika) | | |
| Mgr. Andrej Gendiar, PhD. (všeobecná fyzika a matematická fyzika) | | |
| Mgr. Andrej Gendiar, PhD. (všeobecná fyzika a matematická fyzika) | | |
| Ing. Štefan Gmuca, CSc. (jadrová a subjadrová fyzika) | | |
| Ing. Matej Jergel, DrSc. (fyzika kondenzovaných látok a akustika) | | |
| Ing. Matej Jergel, DrSc. (kvantová elektronika a optika) | | |
| Ing. Matej Jergel, DrSc. (fyzikálne inžinierstvo) | | |
| RNDr. Pavol Kalinay, CSc. (všeobecná fyzika a matematická fyzika) | | |
| Ing. Ján Kliman, DrSc. (fyzika) | | |
| Ing. Ján Kliman, DrSc. (jadrová a subjadrová fyzika) | | |
| Ing. Ján Kliman, DrSc. (jadrová energetika) | | |
| Ing. Ján Kliman, DrSc. (fyzikálne inžinierstvo) | | |
| Ing. Ján Kliman, DrSc. (odbor v zahraničí) | | |
| Ing. Štefan Lányi, DrSc. (elektronika) | | |
| RNDr. Eva Majková, DrSc. (kvantová elektronika a optika) | | |

| | | |
|---|---|---|
| RNDr. Eva Majková, DrSc. (fyzikálne inžinierstvo) | | |
| Doc. RNDr. Martin Plesch, PhD. (teória vyučovania fyziky) | | |
| RNDr. Ondrej Šauša, CSc. (jadrová chémia) | | |
| Dr. Rer. Nat. Peter Šiffalovič, DrSc. (kvantová elektronika a optika) | | |
| Ing. Peter Švec, DrSc. (všeobecná fyzika a matematická fyzika) | | |
| Ing. Peter Švec, DrSc. (fyzika kondenzovaných látok a akustika) | | |
| Ing. Peter Švec, DrSc. (elektrotechnológie a materiály) | | |
| Ing. Peter Švec, DrSc. (materiály) | | |
| Ing. Peter Švec, DrSc. (fyzikálne inžinierstvo) | | |
| Mgr. Martin Veselský, PhD. (jadrová a subjadrová fyzika) | | |

### 3.8. Údaje o pedagogickej činnosti

Tabuľka 3i Prednášky a cvičenia vedené v roku 2021

| PEDAGOGICKÁ ČINNOSŤ | Prednášky | | Cvičenia a semináre | |
|---|---|---|---|---|
| | doma | v zahraničí | doma | v zahraničí |
| **Počet prednášateľov alebo vedúcich cvičení** | 3 | 1 | 0 | 1 |
| **Celkový počet hodín v r. 2021** | 130 | 26 | 0 | 82 |

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

Tabuľka 3j Aktivity pracovníkov na VŠ

| | | |
|---|---|---|
| **1.** | **Počet pracovníkov, ktorí pôsobili ako vedúci alebo konzultanti diplomových a bakalárskych prác** | 9 |
| **2.** | **Počet vedených alebo konzultovaných diplomových a bakalárskych prác** | 14 |
| **3.** | **Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)** | 5 |
| **4.** | **Počet školených doktorandov (aj pre iné inštitúcie)** | 9 |
| **5.** | **Počet oponovaných dizertačných a habilitačných prác** | 2 |
| **6.** | **Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce** | 2 |
| **7.** | **Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác** | 0 |
| **8.** | **Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác** | 5 |
| **9.** | **Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti** | 1 |

| | | |
|---|---|---|
| | **v inauguračnom alebo habilitačnom konaní na vysokých školách** | |

### 3.9. Iné dôležité informácie k pedagogickej činnosti

Každoročne počas zimného a letného semestra prebieha študentský PhD seminár, so zameraním na precvičovanie prezentačných a soft-skills zručností študentov.

# 4. Medzinárodná vedecká spolupráca

## 4.1. Medzinárodné vedecké podujatia

### 4.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2021 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

APCOM 2021 – Applied Physics of Condensed Matter, Štrbské Pleso, Slovensko, 23.06.-25.06.2021

SURFINT-SREN 2021 – Progress in Applied Surface, Interface and Thin Film Science, Bratislava, 22.11.-25.11.2021
The main goal of the conference is to contribute to new knowledge in surface, interface, ultra-thin films and very-thin films science of inorganic and organic materials by the most rapid interactive manner - by direct communication among scientists of corresponding research fields. The list of topics indicates that conference interests cover the development of basic theoretical physical and chemical principles and performance of surfaces-, thin films-, and interface-related procedures, and corresponding experimental research on atomic scale. Topical results are applied at development of new inventive industrial equipments needed for investigation of electrical, optical, and structural properties, and other parameters of atomic-size research objects. The conference range spreads, from physical point of view, from fundamental research done on sub-atomic and quantum level to production of devices built on new physical principles. The conference topics include also presentation of principally new devices in following fields: solar cells, liquid crystal displays, high-temperature superconductivity, and sensors. During the event, special attention will be given to evaluation of scientific and technical quality of works prepared by PhD students, to deep ecological meaning of solar cell energy production, and to exhibitions of companies.

### 4.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2022 (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

| Meno pracovníka | Programový | Organizačný | Programový i organizačný |
|---|---|---|---|
| Boháč Vlastimil | 1 | 0 | 0 |
| Luby Štefan | 1 | 0 | 0 |
| Šauša Ondrej | 0 | 0 | 1 |
| Švec Peter | 0 | 0 | 2 |
| **Spolu** | 2 | 0 | 3 |

## 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. Emil Běták, DrSc.

Institute of Physics (funkcia: člen Fellowship Panelu)
Institute of Physics (funkcia: fellow)

RNDr. Pavol Butvin, CSc.

European Physical Society (funkcia: člen)

Prof. RNDr. Vladimír Bužek, DrSc.

American Physical Society (funkcia: člen)
Institute of Physics (funkcia: fellow)
Optical Society of America (funkcia: fellow)
Rakúska akadémia vied (funkcia: zahraničný člen)

Mgr. Peter Filip, PhD.

European Physical Society (funkcia: individuálny člen)

Mgr. Andrej Gendiar, PhD.

Americká fyzikálna spoločnosť (funkcia: člen)

Ing. Ján Ivančo, DrSc.

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

Ing. Matej Jergel, DrSc.

Česko-Slovenská kryštalografická spoločnosť (funkcia: člen, 1996-2002 člen Rady)
European Academy of Sciences and Arts (funkcia: člen)
Európska organizácia používateľov synchrotrónového žiarenia a FEL (European Synchrotron and FEL Users Organization) (funkcia: národný delegát)
Národný komitét IUPAP (funkcia: člen)

Ing. Štefan Lányi, DrSc.

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

prof. Ing. Štefan Luby, DrSc.

Európska akadémia vied a umení (funkcia: vedúci slovenskej delegácie)
Identifikačný kód Slovenska (funkcia: gestor za EASA)
International Union of Vacuum, Sci. and Technol. (IUVSTA) (funkcia: člen)
Medzinárodná nadácia S.T.E.P.S. Grécko - USA (funkcia: člen rady)

RNDr. Eva Majková, DrSc.

Academia Europea Scietiarum et Artium (funkcia: socius ordinarius)
International Union of Vacuum Science, Technology and Applications, IUVSTA, Divízia tenkých vrstiev (funkcia: národný reprezentant)
L'ORÉAL-UNESCO Pre ženy vo vede (funkcia: predsedníčka poroty)
Steering Committee v medzinárodnom M-ERANET programe (funkcia: členka)

RNDr. Igor Maťko, CSc.

Československá mikroskopická společnost (funkcia: člen)

RNDr. Emil Pinčík, CSc.

International Committee of Analysis in Steel and Iron Industry - ICASI (funkcia: člen medzinárodného výboru)

Doc. RNDr. Martin Plesch, PhD.

Medzinárodná federácia fyzikálnych súťaží (funkcia: vice-prezident)
Medzinárodný turnaj mladých fyzikov (funkcia: prezident)
Medzinárodný výbor IJSO (funkcia: člen)

RNDr. Daniel Reitzner, PhD.

Fulbright Commision (funkcia: Alumni)

Ing. Mgr. Peter Staňo, PhD.

American Physical Society (funkcia: člen)

prof. Ing. Ivan Štich, DrSc.

American Physical Society (funkcia: člen)
European Academy of Sciences and Arts (funkcia: člen)

Ing. Vladimír Štofanik, PhD.

IEEE-UFFC (funkcia: člen)
URSI (funkcia: člen)

Ing. Peter Švec, DrSc.

Československá mikroskopická spoločnosť (funkcia: člen)
Intl. Advisory Committe on Rapid Quenching (funkcia: member)
IUPAP (funkcia: vicechair, Comission C10 on Solid State Physics)

Ing Peter Švec Jr., PhD.

Československá mikroskopická spoločnosť (funkcia: člen výboru)
European Microscopy Society (funkcia: člen)

Mgr. Martin Venhart, PhD.

The Nuclear Physics European Collaboration Committee (funkcia: člen)

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

Tabuľka 4b Experti hodnotiaci medzinárodné projekty

| Meno pracovníka | Typ programu/projektu/výzvy | Počet hodnotených projektov |
|---|---|---|
| Jergel Matej | Marie Curie Programme - AIAS-COFUND fellowships | 8 |
| Plesch Martin | Erasmus + | 6 |

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

*Prehľad údajov o medzinárodnej mobilite pracovníkov organizácie je uvedený v Prílohe E.*
*Prehľad a údaje o medzinárodných projektoch sú uvedené v kapitole 2 a Prílohe B.*

V roku 2021 bola samotná mobilita výskumníkov silne ovplyvnená pandémiou Covid-19. Virtuálna spolupráca sa stala praxou, čoho najlepšou ilustráciou je najmä zoznam publikácií (drvivá väčšina vznikla v spolupráci so zahraničnými kolegami) a spoločných medzinárodných projektov, ktoré boli v tomto roku riešené a podané. Najvýznamnejšie prínosy sú uvedené v časti 2.3. Kolektív prof. Šticha sa stal členom konzorcia H2020 európskeho projektu „Targeting Real chemical accuracy at the Exascale“.

# 5. Koncepcia dlhodobého rozvoja organizácie

Koncepcia dlhodobého rozvoja zostáva nezmenená a rovnako nezmenene naráža na nestabilitu podpory výskumu v SR a nejasnosť vo vedecko-výskumných prioritách.

## 5.1. Odporúčania z posledného pravidelného hodnotenia organizácií SAV (akreditácie)

Splniteľné odporúčania, ktoré nezávisia na výskumnom prostredí SR a teda sú pod kontrolou zamestnancov FÚ SAV, boli splnené už v predošlých rokoch.

## 5.2. Hlavné body Akčného plánu organizácie a stav ich plnenia

Všetky hlavné body akčného plánu boli splnené (viď minuloročnú výročnú správu FÚ SAV). V tomto roku sme pokračovali v nastolenom trende udržateľnom napĺňaní hlavných bodov Akčného plánu. V roku 2021 sme:

- Prijali 6 nových PhD študentov, dvaja z nich sú hradený z vlastných prostriedkov FÚ. Je pozitívnym faktom, že pribúdajú každoročne noví kandidáti a je čoraz ťažšie vybrať nových študentov. Pridelený počty PhD pozícií z centrálnych zdrojov SAV sú naplnené na maximum.
- Prebehlo výberové konanie na novozaloženú pozíciu „IP SAS Fellow". Úmyslom je pritiahnuť na obdobie jedného roka postdoktoranda alebo zahraničného výskumníka a umožniť mu naštartovať vlastnú kariéru so svojím vedeckým programom.
- Zvyšovala sa kvalita výstupov výskumu, stúpla nám publikačná činnosť zamestnancov. Boli špeciálne odmenené publikácie s vysokým impakt faktorom a s vysokým počtom citácií na jednu publikáciu. V tomto trende budeme pokračovať aj v najbližších rokoch.
- Významný posun nastal v internacionalizácií ústavu a pätina výskumných pracovníkov je zo zahraničia, primárne najmä na úrovni doktorandov a postdoktorandov.

## 5.3. Aktualizácia Akčného plánu organizácie v roku 2021

Neprišlo k aktualizácii (nebola potreba), ani k avizovanému vytvoreniu nového akčného plánu. Identifikovali sa však slabé a silné stránky ústavu. Eliminovanie slabých a udržateľnosť silných bude predmetom nového akčného plánu, ktorého vytvorenie je prioritou vedenia FÚ na rok 2022.

# 6. Spolupráca s univerzitami/vysokými školami a inými subjektmi v oblasti vedy a techniky, okrem aktivít uvedených v kap. 2, 3, 4

## 6.1. Spoločné pracoviská organizácie

### 6.1.1. Spolupráca s univerzitami/VŠ (fakultami)

**Názov univerzity/vysokej školy a fakulty:** Dokuz Eylul University ?zmir, Turkey
**Oblasť spolupráce:** Termofyzikálne vlastnosti uhlíkových nanorúrok vypĺňajúcich polymérne kompozity
**Sídlo spoločného pracoviska (ak je vytvorené):**
**Začiatok spolupráce:** 2016
**Zhodnotenie:** Meranie termofyzikálnych vlastností polymérnych kompozitov na báze HDPE a s vláknami alebo časticami uhlíkových nano štruktúr.

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

**Oblasť spolupráce:** Experimenty na charakterizáciu vlastností keramickej peny
**Sídlo spoločného pracoviska (ak je vytvorené):**
**Začiatok spolupráce:** 2010
**Zhodnotenie:** Splupráca je v oblasti merania termofyzikálnych parametrov keramickej peny za účelom optimalizácie technológie výroby.

**Názov univerzity/vysokej školy a fakulty:** Fakulta matematiky, fyziky a informatiky UK
**Oblasť spolupráce:** Spolupráca laboratórií elektrostatických urýchľovačov
**Sídlo spoločného pracoviska (ak je vytvorené):**
**Začiatok spolupráce:** 2017
**Zhodnotenie:** V rámci spolupráce s MFF UK Bratislava a MTF STU Trnava (UVP CAMBO) sa uskutočnili prvé diskusie o spolupráci pri využití elektrostatických urýchľovačov na Slovensku. Cieľom tejto spolupráce je vymedziť špecifické úlohy riešené na jednotlivých pracoviskách, dohodnúť spoločné využitie dostupných zdrojov a zariadení a spolupráca pri riešení možných technických problémov.

**Názov univerzity/vysokej školy a fakulty:** Montanuniversitaet Leoben, Rakúsko
**Oblasť spolupráce:** experimentálne
**Sídlo spoločného pracoviska (ak je vytvorené):**
**Začiatok spolupráce:** 2011
**Zhodnotenie:** V rámci spolupráce sú vykonávané mikroštruktúrne analýzy vzoriek širšej triedy materiálov pomocou sofistikovaných metód elektrónovej mikroskopie (Cs korigovaná HRTEM a HRSTEM spojená s chemickou analýzou).

**Názov univerzity/vysokej školy a fakulty:** Prírodovedecká fakulta UK
**Oblasť spolupráce:** Katedra inžinierskej geológie
**Sídlo spoločného pracoviska (ak je vytvorené):**
**Začiatok spolupráce:** 2011
**Zhodnotenie:** Monitorovanie teplotno-vlhkostného režimu v tufovom masíve múzea sakalných obydlí v Brhlovciach.

**Názov univerzity/vysokej školy a fakulty:** Slovenská technická univerzita v Bratislave
**Oblasť spolupráce:** Experimentálne a teoretické
**Sídlo spoločného pracoviska (ak je vytvorené):**

**Začiatok spolupráce:** 2010
**Zhodnotenie:** Spolupráca s Katedrou fyziky na FEI a Katedrou stavebnej fyziky na SF je v oblasti merania termofyzikálnych parametrov stavebných materiálov. Odborným zameraním sa kolektívy navzájom dopĺňajú a tým zabezpečujú požadovanú úroveň spolupráce.

**Názov univerzity/vysokej školy a fakulty:** Slovenská technická univerzita v Bratislave
**Oblasť spolupráce:** Ústav jadrového a fyzikálneho inžinierstva
**Sídlo spoločného pracoviska (ak je vytvorené):**
**Začiatok spolupráce:** 2011
**Zhodnotenie:** spolupráca pri odvodzovaní a testovaní modelov pre prechodové metódy na meranie termofyzikálnych vlastností látok

*Pozn.: uvádzajte len tie spolupráce, na ktoré má organizácia zmluvu resp. memorandum o zriadení spoločného pracoviska, resp. o vzájomnej spolupráci v konkrétnej oblasti výskumu*

### 6.1.2. Spoločné pracoviská s inými organizáciami SAV

*Pozn.: uvádzajte len tie spolupráce, na ktoré má organizácia zmluvu resp. memorandum o zriadení spoločného pracoviska, resp. o vzájomnej spolupráci v konkrétnej oblasti výskumu*

### 6.2. Spoločné pracoviská organizácie s inými inštitúciami mimo SAV a VŠ

*Pozn.: uvádzajte len tie spolupráce, na ktoré má organizácia zmluvu resp. memorandum o zriadení spoločného pracoviska, resp. o vzájomnej spolupráci v konkrétnej oblasti výskumu*

### 6.3. Spoločné projekty s univerzitami a ostatnými inštitúciami mimo SAV

**Názov projektu:** Monitorovanie teplotno- vlhkostného režimu veže katedrále sv. Martina v Bratislave
**Agentúra:**
**číslo projektu:**
**Spolupracujúce inštitúcie:** Arcibiskupský úrad, Bratislava
**Koordinátor projektu:**
**Začiatok spolupráce:** 2011
**Zhodnotenie:** Pripravujú sa spoločné projekty s Pamiatkovým úradom ktoré zabezpečia finančný efekt pre FÚ a zároveň umožnia nadviazať užšie kontakty s organizáciami zaoberajúcimi sa ochranou pamiatok a majiteľmi pamiatkových objektov. (kontakt FÚ: J. Hudec)

**Názov projektu:** Laboratórne merania termofyzikálnych vlastností hornín
**Agentúra:**
**číslo projektu:**
**Spolupracujúce inštitúcie:** Geologische Bundesanstalt Wien v spolupráci so Štátnym geologickým ústavom Dionýza Štúra
**Koordinátor projektu:**
**Začiatok spolupráce:** 2017
**Zhodnotenie:** Merania v rámci zákazky.Projekt má priniesť poznatky pre budovanie obnoviteľných zdrojov energie v zemskom podloží spôsobom plytkých geotermálnych vrtov. Štatisticky budú zmapované oblasti v strednej Európe.

**Názov projektu:** Monitorovanie teplotno-vlhkostného režimu pilierov kostola sv. Jakuba v Levoči
**Agentúra:**
**číslo projektu:**
**Spolupracujúce inštitúcie:** Katedra inžinierskej geológie, Univerzita Komenského, Bratsialva

**Koordinátor projektu:**
**Začiatok spolupráce:** 2012
**Zhodnotenie:**

**Názov projektu:** Monitorovanie tuhnutia betónových zmesí
**Agentúra:**
**číslo projektu:**
**Spolupracujúce inštitúcie:** Technický a skúšobný ústav stavebný, n.o. Bratislava
**Koordinátor projektu:**
**Začiatok spolupráce:** 2010
**Zhodnotenie:** Pripravujú sa spoločné projekty ktoré zabezpečia finančný efekt pre FÚ a zároveň umožnia nadviazať užšie kontakty so stavebnými organizáciami. (kontakt FÚ: J. Hudec)

**Názov projektu:** Laboratórne merania termofyzikálnych vlastností hliníkovej peny.
**Agentúra:**
**číslo projektu:**
**Spolupracujúce inštitúcie:** Ústav materiálov a mechaniky strojov, SAV
**Koordinátor projektu:**
**Začiatok spolupráce:** 2017
**Zhodnotenie:** Podaný APVV projekt. Merania boli vykonané za účelom predbežne zhodnotiť prínos termofyzikálnych meraní pre spôsob aplikácie hliníkovej peny vyplnenej PCM pre možnosti uskladnenia teplenej energie.

*Pozn.: uviesť konkrétne spoločné aj bilaterálne projekty na základe platnej zmluvy o spolupráci*

### 6.4. Iné typy spoločných aktivít s inštitúciami mimo SAV

# 7. Aplikácia výsledkov výskumu v spoločenskej a hospodárskej praxi

## 7.1. Výsledky výskumu organizácie aplikované v spoločenskej a hospodárskej praxi

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

## 7.3. Iné formy aplikácie výsledkov výskumu v spoločenskej a hospodárskej praxi

# 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 |
|---|---|---|
| Mgr. Erik Bartoš, PhD. | Výbor pre koordináciu spolupráce so SÚJV v Dubne | člen |
| Doc. RNDr. Emil Běták, DrSc. | Pracovná skupina pre fyziku Akreditačnej komisie | člen |
| RNDr. Stanislav Dubnička, DrSc. | Vláda SR | Splnomocnený zástupca vlády SR v SÚJV Dubna |
| Mgr. Andrej Herzáň, PhD. | European Committee for Future Accelerators (ECFA) Early-Career Researcher (ECR) Panel, ECFA-ECR | člen |
| RNDr. Stanislav Hlaváč, CSc. | Rada Úradu jadrového dozoru SR | člen rady |
| prof. Ing. Štefan Luby, DrSc. | Zbor expertov MŠVVŠ SR pre Horizont Európa | expert pre program civilnej bezpečnosti |
| RNDr. Eva Majková, DrSc. | Stála komisia Rady vlády pre vedu, techniku a inovácie | člen |
| | pracovná skupina pre hodnotenie OP VaI | člen |
| | Komisia pre návrh štátnych vyznamenaní | člen |
| Doc. RNDr. Martin Plesch, PhD. | Štátny tajomník Ministerstva školstva SR | poradca |
| Ing. Peter Švec, DrSc. | Atestačná komisia STU | člen |
| Mgr. Martin Venhart, PhD. | Výbor pre koordináciu spolupráce so SÚJV v Dubne | člen |
| | Európska výskumná rada (ERC) | národný delegát SR pre program Horizon Europe |
| | Výbor pre spoluprácu SR s CERN | podpredseda |

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

**Názov expertízy:** Konzultant
**Adresát expertízy:** Ministerstvo vnútra SR
**Spracoval:** prof. Ing. Štefan Luby, DrSc.
**Stručný opis:** Spracovanie dokumentov pre člena Programového výboru Horizont Európa za SR, program Civilná bezpečnosť

## 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 |
|---|---|---|

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

# 9. Vedecko-organizačné a popularizačné aktivity

## 9.1.Vedecko-popularizačná činnosť

Tabuľka 9a Súhrnné počty vedecko-popularizačných činností organizácie SAV

| Typ | Počet | Typ | Počet | Typ | Počet |
|---|---|---|---|---|---|
| prednášky/besedy | 13 | tlač | 7 | TV | 1 |
| rozhlas | 3 | internet | 6 | exkurzie | 0 |
| publikácie | 0 | multimediálne nosiče | 0 | dokumentárne filmy | 0 |
| iné | 3 | | | | |

## 9.2. Vedecko-organizačná činnosť

Tabuľka 9b Vedecko-organizačná činnosť

| Názov podujatia | Domáca/ medzinárodná | Miesto | Dátum konania | Počet účastníkov |
|---|---|---|---|---|
| SFS – 25. konferencia slovenských fyzikov | domáca | Bratislava | 06.09.-09.09.2021 | 40 |
| APCOM 2021 – Applied Physics of Condensed Matter | medzinárodná | Štrbské Pleso, Slovensko | 23.06.-25.06.2021 | - |
| SURFINT-SREN 2021 – Progress in Applied Surface, Interface and Thin Film Science | medzinárodná | Bratislava | 22.11.-25.11.2021 | - |

## 9.3. Účasť na výstavách

## 9.4. Účasť v programových a organizačných výboroch národných konferencií

Tabuľka 9c Programové a organizačné výbory národných konferencií

| Meno pracovníka | Programový | Organizačný | Programový i organizačný |
|---|---|---|---|
| Bartoš Erik | 0 | 1 | 0 |
| Gendiar Andrej | 1 | 0 | 0 |
| Gmuca Štefan | 0 | 1 | 0 |
| Jergel Matej | 0 | 1 | 0 |
| Šiffalovič Peter | 0 | 1 | 0 |
| **Spolu** | 1 | 4 | 0 |

## 9.5. Členstvo v redakčných radách časopisov

Ing. Vlastimil Boháč, CSc.

International Journal of Engineering and Allied Sciences (IJEAS) (funkcia: Editorial Board Member)

Prof. RNDr. Vladimír Bužek, DrSc.

European Physical Journal D (funkcia: editor)
Journal of Modern Optics (funkcia: člen redakčnej rady)

RNDr. Stanislav Dubnička, DrSc.

MEDICUS (funkcia: člen red. rady)

Mgr. Andrej Gendiar, PhD.

Acta Physica Slovaca (funkcia: výkonný redaktor)

Ing. Ján Kliman, DrSc.

Problems of Atomic Science and Technology, Series: Nuclear and Reactor Constants (funkcia: Clen redakcnej rady)

Ing. Štefan Lányi, DrSc.

Československý časopis pro fyziku (funkcia: člen RR)

prof. Ing. Štefan Luby, DrSc.

Contemporary Materials (funkcia: člen red. rady)
Obzory matematiky, fyziky a informatiky (funkcia: Člen red. rady)

Doc. RNDr. Martin Plesch, PhD.

IYPT Magazine (funkcia: člen Advisory Board)
Scientific Reports (funkcia: člen Editorial board)

prof. Ing. Ivan Štich, DrSc.

Acta Physica Slovaca (funkcia: editorial board)

Ing. Peter Švec, DrSc.

Journal of Materials Science and Technology (funkcia: člen redakčnej rady)
PAR - Pomiary-Automatyka-Robotyka (funkcia: člen programového výboru)

Mgr. Martin Veselský, PhD.

Nuclear Science and Techniques (funkcia: člen redakčnej rady)

### 9.6. Činnosť v domácich vedeckých spoločnostiach

Mgr. Erik Bartoš, PhD.

Slovenská fyzikálna spoločnosť (funkcia: člen)

Doc. RNDr. Emil Běták, DrSc.

Jednota slov. matematikov a fyzikov (funkcia: člen)

RNDr. Juraj Boháčik, CSc.
Slovenská fyzikálna spoločnosť (funkcia: hospodár)

RNDr. Pavol Butvin, CSc.

Slovenská fyzikálna spoločnosť (funkcia: člen)
Slovenská magnetická spoločnosť pri SVTS (funkcia: člen)

RNDr. Beata Butvinová, CSc.

Slovenská fyzikálna spoločnosť (funkcia: člen)
Slovenská magnetická spoločnosť pri SVTS (funkcia: člen)

Prof. RNDr. Vladimír Bužek, DrSc.

Učená spoločnosť Slovenska (funkcia: člen)

RNDr. Stanislav Dubnička, DrSc.

Slovenská fyzikálna spoločnosť (funkcia: člen)

Mgr. Andrej Gendiar, PhD.

Slovenská fyzikálna spoločnosť (funkcia: člen)

Ing. Štefan Gmuca, CSc.

Slovenská fyzikálna spoločnosť (funkcia: podpredseda)

RNDr. Katarína Gmucová, CSc.

Slovenská fyzikálna spoločnosť (funkcia: člen)

Mgr. Andrej Herzáň, PhD.

Slovenská fyzikálna spoločnosť (funkcia: člen)

Ing. Matej Jergel, DrSc.

Jednota slovenských matematikov a fyzikov (funkcia: člen)
Slovenská fyzikálna spoločnosť (funkcia: člen)
Učená spoločnosť Slovenska (funkcia: člen)

RNDr. Pavol Kalinay, CSc.

Slovenská fyzikálna spoločnosť (funkcia: člen)

RNDr. Marián Krajčí, DrSc.

Slovenská fyzikálna spoločnosť (funkcia: člen)

Ing. Štefan Lányi, DrSc.
Slovenská fyzikálna spoločnosť (funkcia: predseda reviznej komisie)

Doc. RNDr. Martin Plesch, PhD.

Odborná komisia Turnaja mladých fyzikov (funkcia: podpredseda)

RNDr. Daniel Reitzner, PhD.

Club of Individualities, Intenda Foundation (funkcia: Member)

Dr. Rer. Nat. Peter Šiffalovič, DrSc.

Učená spoločnosť Slovenska (funkcia: člen)

prof. Ing. Ivan Štich, DrSc.

Učená spoločnosť Slovenska (funkcia: člen)

Ing. Peter Švec, DrSc.

Učená spoločnosť Slovenska (funkcia: člen)

Mgr. Martin Venhart, PhD.

Slovenská fyzikálna spoločnosť (funkcia: člen)

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

Počas roka 2021 sa naši pracovníci zapájali do popularizácie vedy, a najmä fyziky, v mnohých oblastiach. Prehľad ich výstupov spolu s odkazmi na mediálne výstupy je k nahliadnutiu na našej webstránke „My v médiách“ (https://fu.sav.sk/index.php?id=media).

V lete pracovníci FÚ SAV (Denisa Lampášová a Mario Ziman) participovali na organizácii Letnej školy mladých vedcov.

V rámci podujatia Týždeň vedy a techniky na Slovensku, **8. — 14. 11. 2021** FÚ SAV zorganizoval vlastný „(Týž)Deň otvorených dverí na FÚ SAV 2021“ určený širokej verejnosti, ale najmä študentom stredných a vysokých škôl. Pretože sa DOD odohrával hlavne v online priestore (i keď dve prednášky boli uskutočnéne osobne na škole), boli verejnosti dopredu ponúknuté témy prednášok.
Podujatia sa zúčastnili žiaci ôsmich gymnázií z Bratislavy, Dolného Kubína, Prešova, Ružomberka, Senice a Žiaru nad Hronom, ktorí niekedy aj súčasne sledovali vybrané 45 min. prednášky našich pracovníkov:

- Erik Bartoš: „Ako nám urýchľovače častíc uľahčujú život“
- Andrej Gendiar: „Kvantová fyzika v zakrivenom priestore“
- Denisa Lampášová: „Kvantová superpozícia: čo to vlastne je?“
- Andrej Liptaj: „Zobrazovanie pomocou magnetickej rezonancie“
- Andrej Liptaj: „Fyzika hudby“
- Daniel Nagaj: „Fyzikálna podstata informácie“
- Martin Plesch: „Ako veci fungujú“
- Martin Plesch: „Rumburakov neviditeľný plášť“
- Martin Venhart: „Sólo pre technécium“
- Mário Ziman: „Kvantová teleportácia“

# 10. Činnosť knižnično-informačného pracoviska

## 10.1. Knižničný fond

Tabuľka 10a Knižničný fond

| | | |
|---|---|---|
| **Knižničné jednotky spolu** | | 9592 |
| z toho | knihy a zviazané periodiká | |
| | audiovizuálne dokumenty | |
| | elektronické dokumenty (vrátane digitálnych) | |
| | mikroformy | |
| | iné špeciálne dokumenty - dizertácie, výskumné správy | |
| | Rukopisy, vzácne tlače | |
| Počet titulov dochádzajúcich periodík | | 21 |
| z toho zahraničné periodiká | | 20 |
| Ročný prírastok knižničných jednotiek | | 5 |
| v tom | kúpou | 5 |
| | darom | |
| | výmenou | |
| | bezodplatným prevodom | |
| | náhradou | |
| Úbytky knižničných jednotiek | | |
| Knižničné jednotky spracované automatizovane | | 1377 |

*Výraz **„v tom“** označuje úplné (vyčerpávajúce) údaje, ktorých súčet sa musí rovnať údaju v riadku „spolu“, čiže nadradenému riadku.*
*Výraz **„z toho“** označuje neúplné (výberové) údaje, ktorých súčet sa nemusí rovnať údaju v riadku „spolu“.*

## 10.2. Výpožičky a služby

Tabuľka 10b Výpožičky a služby

| | | |
|---|---|---|
| **Výpožičky spolu (riadok 1)** | | 411 |
| v tom z r. 1 | prezenčné výpožičky | 327 |
| | absenčné výpožičky | |
| v tom z r. 1 | odborná literatúra pre dospelých | 84 |
| | výpožičky periodík | |
| MVS iným knižniciam | | 4 |
| MVS z iných knižníc | | |
| MMVS iným knižniciam | | |
| MMVS z iných knižníc | | 3 |
| Počet vypracovaných bibliografií | | |

| | |
|---|---|
| Počet vypracovaných rešerší | 2 |

### 10.3. Používatelia

Tabuľka 10c Používatelia

| | |
|---|---|
| Registrovaní používatelia | 99 |
| Návštevníci knižnice spolu (bez návštevníkov podujatí) | 105 |

### 10.4. Iné údaje

Tabuľka 10d Iné údaje

| | |
|---|---|
| On-line katalóg knižnice na internete ( 1=áno, 0=nie) | 1 |
| Náklady na nákup knižničného fondu v € | 244,27 |

### 10.5. Iné informácie o knižničnej činnosti

# 11. Aktivity v orgánoch SAV

## 11.1. Členstvo vo Výbore Snemu SAV

RNDr. Katarína Gmucová, CSc.

- členka
- predsedníčka I. Komory
- predsedníčka Snemu SAV

## 11.2. Členstvo v Predsedníctve SAV a vo Vedeckej rade SAV

Mgr. Martin Venhart, PhD.

- Člen Predsedníctva SAV
- Člen Vedeckej rady SAV
- Popredseda SAV pre 1. oddelenie vied

## 11.3. Členstvo v komisiách SAV

Mgr. Andrej Gendiar, PhD.

- Edičná rada SAV (člen)

RNDr. Katarína Gmucová, CSc.

- Akreditačná komisia SAV (členka)
- Bytová komisia SAV (členka)
- Komisia pre transformáciu SAV (členka)
- Legislatívna komisia SAV (členka)
- Škodová komisia SAV (členka)

Ing. Matej Jergel, DrSc.

- Komisia SAV pre vyhodnocovanie medzinárodných projektov (člen)

Ing. Peter Švec, DrSc.

- Komisia SAV pre rovnosť príležitostí (člen)

Mgr. Martin Venhart, PhD.

- Komisia pre hodnotenie grantov doktorandov SAV (podpredseda)
- Komisia pre stratégiu rozvoja SAV (člen)
- Komisia pre transformáciu SAV (člen)
- Komisia SAV pre ekonomické otázky (člen)
- Komisia SAV pre médiá, komunikáciu a program Otvorená akadémia (Člen komisie)
- Komisia SAV pre rovnosť príležitostí (Člen komisie)
- Komisia SAV pre spoluprácu s vedeckými spoločnosťami (Člen komisie)

- Rada SAV pre program Otvorená akadémia (Predseda)
- Škodová komisia SAV (člen)

doc. Mário Ziman, PhD.
- Komisia SAV pre zahraničné styky (člen)

**11.4. Členstvo v orgánoch VEGA**

Mgr. Cyril Adamuščín, PhD.

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

Ing. Matej Jergel, DrSc.

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

RNDr. Igor Maťko, CSc.

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

Ing. Peter Švec, DrSc.

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

# 12. Hospodárenie organizácie

## 12.1. Výdavky organizácie

Tabuľka 12a Výdavky organizácie (skutočnosť k 31. 12. 2021 v €)

| **Typ organizácie** (RO,PO) | | **Zdroje, z ktorých sa kryli jednotlivé výdavky** | | | |
|---|---|---|---|---|---|
| **Výdavky** | **Spolu** | **kapitola SAV (111)** | **iné štátne a verejné zdroje** | **ostatné zdroje** | **% krytia z kapitoly SAV** |
| **1. Bežné výdavky** | **3203209** | **2489145** | **472394** | **241670** | **77.71** |
| z toho: mzdy (610) | 1640162 | 1441961 | 125106 | 73095 | 87.92 |
| vedecká výchova štipendiá (640) | 219533 | 197789 | 15097 | 6647 | 90.10 |
| poistné a príspevok do poisťovní (620) | 560325 | 491817 | 43466 | 25042 | 87.77 |
| tovary a služby (630) | 655336 | 340348 | 217318 | 97670 | 51.93 |
| transfery partnerom projektov (640) | 127853 | 17230 | 71407 | 39216 | 13.48 |
| **2. Kapitálové výdavky** | **573359** | **549194** | **0** | **24165** | **95.79** |
| z toho: obstarávanie kapitálových aktív | 573359 | 549194 | 0 | 24165 | 95.79 |
| kapitálové transfery | | | | | |

### 12.2. Zdroje financovania organizácie

Tabuľka 12b Zdroje financovania organizácie (skutočnosť k 31. 12. 2021 v €)

| **Typ organizácie** (RO,PO) | | **Z toho kategórie** | | | |
|---|---|---|---|---|---|
| **Zdroje** | **Spolu** | **Kapitálové zdroje** | **zdroje na mzdy (610)** | **zdroje na odvody do poisťovní (620)** | **zdroje na transfery partnerom projektov** |
| **1. kapitola SAV (111)** | **2489145** | **13332** | **1441960** | **491817** | **0** |
| z toho: VEGA | 163124 | 0 | 0 | 0 | 0 |
| MVTS výskumné projekty | 89583 | 38490 | 0 | 0 | 0 |
| MVTS podpora | 21794 | 2700 | 0 | 0 | 0 |
| SASPRO/MOREPRO | 5564.67 | 0 | 4000 | 1398 | 0 |
| Vydávanie časopisov | 0 | 0 | 0 | 0 | 0 |
| Vedecká výchova (štipendiá) | 197789 | 0 | 0 | 0 | 0 |
| OTAS (630) | 655336 | 0 | 0 | 0 | 0 |
| **2. ŠF EÚ vr. fin. zo ŠR** | **63547** | **0** | **15724** | **5643** | **0** |
| **3. medzinárodné grantové projekty** | **90204** | **0** | **25948** | **9622** | **39216** |
| z toho: H2020 | 59123 | 0 | 4500 | 2126 | 39216 |
| **4. iné štátne a verejné zdroje (spolu)** | **433845** | **0** | **109380** | **41753** | **67874** |
| z toho: APVV | 406345 | 0 | 121380 | 37821 | 67874 |
| podpora z kapitoly MŠVVaŠ SR (stimuly) | 27500 | 0 | 12000 | 3932 | 0 |
| **5. ostatné zdroje** | **265834** | **0** | **73094** | **25042** | **39216** |
| z toho: príjmy z prenájmu | 13794 | 0 | 0 | 0 | 0 |
| príjmy z podnikateľskej činnosti | 0 | 0 | 0 | 0 | 0 |
| príjmy z expertnej činnosti a služieb | 12869 | 0 | 0 | 0 | 0 |

## 13. Nadácie a fondy pri organizácii SAV

FÚ SAV je sídlom Slovenskej fyzikálnej spoločnosti, ktorá finančne podporuje výskumno-vzdelávacie aktivity v oblasti fyziky.

## 14. Informácie o aktivitách súvisiacich s uplatňovaním princípov rodovej rovnosti

### 14.1. Stručné hodnotenie stavu uplatňovania princípov rodovej rovnosti v organizácii, súvisiace aktivity a opatrenia

Princíp rodovej rovnosti je dôsledne dodržiavaný vo všetkých procesoch a nastaveniach FÚ SAV. Jediný nepomer je v absolútnom počte, ktorý kopíruje situáciu v nepomere študentov a študentiek univerzitého štúdia fyziky a príbuzných odborov. Prípadné rodové špecifiká sú identifikované a implementované tými istými postupmi, t.j. rodovo vyváženou otvorenosťou vnútornej komunikácie.

### 14.2. Rodová skladba hlavných riešiteľov (vedúcich) projektov

Tabuľka 14a Rodová skladba hlavných riešiteľov domácich projektov

| ŠTRUKTÚRA PROJEKTOV | Organizácia SAV je nositeľom projektu | | | Organizácia SAV je zmluvným partnerom | | |
|---|---|---|---|---|---|---|
| | Počet | Hlavný riešiteľ | | Počet | Hlavný riešiteľ za organizáciu | |
| | | Muž | Žena | | Muž | Žena |
| 1. Projekty VEGA | 18 | 16 | 2 | 2 | 2 | 0 |
| 2. Projekty APVV | 8 | 7 | 1 | 9 | 8 | 1 |
| 3. Projekty EŠIF | 0 | 0 | 0 | 0 | 0 | 0 |
| 4. Projekty SASPRO, MoRePro | 1 | 1 | 0 | 0 | 0 | 0 |
| 5. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.) | 0 | 0 | 0 | 1 | 1 | 0 |

Tabuľka 14b Rodová skladba hlavných riešiteľov medzinárodných projektov

| ŠTRUKTÚRA PROJEKTOV | Organizácia SAV je nositeľom projektu | | | Organizácia SAV je zmluvným partnerom | | |
|---|---|---|---|---|---|---|
| | Počet | Hlavný riešiteľ | | Počet | Hlavný riešiteľ za organizáciu | |
| | | Muž | Žena | | Muž | Žena |
| 1. Projekty Horizont 2020 a Horizont Európa | 0 | 0 | 0 | 1 | 1 | 0 |

| | | | | | | |
|---|---|---|---|---|---|---|
| **2. Projekty ERA.NET, ESA, JRP** | 0 | 0 | 0 | 5 | 5 | 0 |
| **3. Projekty COST** | 0 | 0 | 0 | 2 | 2 | 0 |
| **4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné** | 1 | 1 | 0 | 1 | 1 | 0 |
| **5. Projekty v rámci medzivládnych dohôd** | 1 | 1 | 0 | 2 | 2 | 0 |
| **6. Bilaterálne projekty MAD, Mobility, Open Mobility** | 0 | 0 | 0 | 0 | 0 | 0 |
| **7. Bilaterálne projekty ostatné** | 1 | 1 | 0 | 0 | 0 | 0 |
| **8. Podpora MVTS z národných zdrojov okrem SAV (APVV a iné)** | 0 | 0 | 0 | 2 | 2 | 0 |
| **9. SAS-UPJŠ ERC Visiting Fellowship Grants** | 0 | 0 | 0 | 0 | 0 | 0 |
| **10. Iné projekty** | 0 | 0 | 0 | 0 | 0 | 0 |

### 14.3. Výskum zameraný na rodovú problematiku

*Uveďte stručné, základné informácie o projektoch orientovaných na rodovú problematiku, ak organizácia takýto výskum realizuje. Informácie o financovaní a výsledkoch takýchto projektov sa nachádzajú v kapitole 2 a v prílohe C.*

Projekty orientované na rodovú problematiku nie sú v portfóliu výskumných oblastí riešených na FÚ SAV.

## 15. Iné významné činnosti organizácie SAV

## 16. Vyznamenania, ocenenia a ceny udelené pracovníkom organizácie v roku 2021

### 16.1. Domáce ocenenia

### 16.1.1. Ocenenia SAV

**Luby Štefan**
Ďakovný list Prededníctva SAV
*Oceňovateľ: Predsedníctvo SAV*
*Opis: Pri životnom jubileu*

**Matoušek Vladislav**, **Venhart Martin**
Cena SAV za rozvoj vedeckej infraštruktúry
*Oceňovateľ: Predsedníctvo SAV*
*Opis: Ocenenie bolo udelené za vývoj spektrometra TATRA a realizáciu experimentu IS521 v CERN*

### 16.1.2. Iné domáce ocenenia

**Gmuca Štefan**
Cena za vedu
*Oceňovateľ: Slovenská fyzikálna spoločnosť*

**Luby Štefan**
80. rokov výuky elektrotech. inžinierov na Slovemsku
*Oceňovateľ: FEI STU*
*Opis: Diplom, artefakt*

**Luby Štefan**
Cena za vedu
*Oceňovateľ: Slovenská fyzikálna spoločnosť*

### 16.2. Medzinárodné ocenenia

**Luby Štefan**
Čestný senátor Európskej akadémie vied a umení
*Oceňovateľ: Európska akadémia vied a umení*
*Opis: Po 15 rokoch členstva v Senáte akadémie, z toho 10 rokov ako viceprezident udelenie čestného titulu čestný senátor EAVU*

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

## 18. Problémy a podnety pre činnosť SAV

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

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

Schválila vedecká rada organizácie SAV dňa 31.1.2022

| **Riaditeľ organizácie SAV** | **Predseda vedeckej rady** |
| --- | --- |
| Mario Ziman | Štefan Gmuca |
| ........................................ | ........................................ |
| Doc. Mgr. Mário Ziman, PhD. | Ing. Štefan Gmuca, CSc. |

# Prílohy

*Príloha A*
**Zoznam zamestnancov a doktorandov organizácie k 31.12.2021**

**Zoznam zamestnancov podľa štruktúry**

| | Meno s titulmi | Úväzok (v %) | Ročný prepočítaný úväzok |
|---|---|---|---|
| **Vedúci vedeckí pracovníci DrSc.** | | | |
| 1. | MSc. Djeylan Vincent Ceylan Aktas, PhD. | 100 | 0.16 |
| 2. | Prof. RNDr. Vladimír Bužek, DrSc. | 100 | 1.00 |
| 3. | RNDr. Stanislav Dubnička, DrSc. | 75 | 0.75 |
| 4. | Prof.RNDr. Miroslav Grajcar, DrSc. | 25 | 0.25 |
| 5. | Ing. Ján Ivančo, DrSc. | 100 | 1.00 |
| 6. | Ing. Matej Jergel, DrSc. | 100 | 1.00 |
| 7. | Ing. Ján Kliman, DrSc. | 70 | 0.70 |
| 8. | RNDr. Marián Krajčí, DrSc. | 100 | 1.00 |
| 9. | Ing. Štefan Lányi, DrSc. | 25 | 0.25 |
| 10. | prof. Ing. Štefan Luby, DrSc. | 100 | 1.00 |
| 11. | RNDr. Eva Majková, DrSc. | 50 | 0.50 |
| 12. | RNDr. Miroslav Nagy, DrSc. | 35 | 0.35 |
| 13. | RNDr. Ladislav Šamaj, DrSc. | 100 | 1.00 |
| 14. | Dr. Rer. Nat. Peter Šiffalovič, DrSc. | 70 | 0.70 |
| 15. | prof. Ing. Ivan Štich, DrSc. | 100 | 1.00 |
| 16. | Ing. Peter Švec, DrSc. | 100 | 1.00 |
| **Vedúci vedeckí pracovníci CSc., PhD.** | | | |
| 1. | Mgr. Andrej Gendiar, PhD. | 100 | 1.28 |
| 2. | RNDr. Stanislav Hlaváč, CSc. | 50 | 0.54 |
| 3. | Mgr. Leevi Ilmari Leppäjärvi, PhD. | 100 | 0.25 |
| **Samostatní vedeckí pracovníci** | | | |
| 1. | Mgr. Cyril Adamuščín, PhD. | 100 | 1.00 |
| 2. | Mgr. Erik Bartoš, PhD. | 100 | 1.00 |
| 3. | Ing. Vlastimil Boháč, CSc. | 100 | 1.00 |
| 4. | RNDr. Juraj Boháčik, CSc. | 20 | 0.20 |
| 5. | Mgr. Ján Brndiar, PhD. | 100 | 0.52 |
| 6. | RNDr. Beata Butvinová, CSc. | 100 | 1.00 |
| 7. | Mgr. Peter Filip, PhD. | 20 | 0.20 |
| 8. | Mgr. Seyed Arash Ghoreishi, PhD. | 100 | 0.25 |

| | | | |
|---|---|---|---|
| 9. | Ing. Štefan Gmuca, CSc. | 100 | 1.00 |
| 10. | RNDr. Katarína Gmucová, CSc. | 100 | 1.00 |
| 11. | Mgr. Andrej Herzáň, PhD. | 100 | 1.00 |
| 12. | Ing. Irena Janotová, PhD. | 100 | 0.00 |
| 13. | RNDr. Pavol Kalinay, CSc. | 100 | 1.00 |
| 14. | Mgr. Roman Krčmár, PhD. | 100 | 1.00 |
| 15. | Dr.Rer.Nat. Ing. Mgr. Andrej Liptaj, PhD. | 100 | 1.00 |
| 16. | RNDr. Lubomir Martinovič, CSc. | 100 | 0.37 |
| 17. | RNDr. Igor Maťko, CSc. | 100 | 1.00 |
| 18. | Ing. Vladislav Matoušek, CSc. | 100 | 1.00 |
| 19. | RNDr. Marek Mihalkovič, CSc. | 100 | 1.00 |
| 20. | RNDr. Naďa Mrkývková, PhD. | 70 | 0.70 |
| 21. | Mgr. Chiranjib Mukhopadhyay, PhD. | 100 | 0.21 |
| 22. | Ing. Vojtech Nádaždy, CSc. | 100 | 1.00 |
| 23. | Mgr. Daniel Nagaj, PhD. | 100 | 1.00 |
| 24. | Mgr. Pavol Neilinger, PhD. | 25 | 0.25 |
| 25. | RNDr. Emil Pinčík, CSc. | 100 | 1.00 |
| 26. | RNDr. Matej Pivoluska, PhD. | 90 | 0.33 |
| 27. | Doc. RNDr. Martin Plesch, PhD. | 100 | 1.00 |
| 28. | Mgr. Ashutosh Rai, PhD. | 100 | 0.47 |
| 29. | RNDr. Anton Repko, PhD. | 100 | 0.33 |
| 30. | Mgr. Michal Sedlák, PhD. | 100 | 1.00 |
| 31. | Ing. Mgr. Peter Staňo, PhD. | 20 | 0.23 |
| 32. | RNDr. Ondrej Šauša, CSc. | 100 | 1.00 |
| 33. | Ing Peter Švec Jr., PhD. | 100 | 1.00 |
| 34. | Ing. Igor Travěnec, CSc. | 100 | 1.00 |
| 35. | RNDr. Robert Turanský, PhD. | 100 | 1.00 |
| 36. | Mgr. Martin Venhart, PhD. | 50 | 0.71 |
| 37. | Ing. Viliam Vretenár, PhD. | 50 | 0.50 |
| 38. | Doc. Mgr. Mário Ziman, PhD. | 100 | 1.00 |
| **Vedeckí pracovníci** | | | |
| 1. | Mgr. Adriana Annušová, PhD. | 5 | 0.44 |
| 2. | RNDr. Róbert Brunner, CSc. | 100 | 1.00 |
| 3. | Mgr. Katarína Čechová, PhD. | 10 | 0.10 |
| 4. | Mgr. David Davalos Gonzalez, PhD. | 100 | 0.33 |
| 5. | Mgr. Hazhir Dolatkhah, PhD. | 100 | 0.60 |

| | | | |
|---|---|---|---|
| 6. | Ing. Yuriy Halahovets, PhD. | 100 | 1.00 |
| 7. | RNDr. Monika Hofbauerová, PhD. | 50 | 0.21 |
| 8. | Ing. Ján Hudec, PhD. | 34 | 0.34 |
| 9. | Ing. Anna Kálosi, PhD. | 5 | 0.68 |
| 10. | Mgr. Jozef Klimo, PhD. | 100 | 1.00 |
| 11. | Ing. Pavol Konopka, PhD. | 100 | 1.00 |
| 12. | Ing. Mário Kotlár, PhD. | 15 | 0.15 |
| 13. | Mgr. Natalia Salomé Móller, PhD. | 100 | 0.77 |
| 14. | Mgr. Peter Nádaždy, PhD. | 50 | 0.21 |
| 15. | Mgr.   Rai, PhD. | 0 | 0.00 |
| 16. | Mgr. Peter Rapčan, PhD. | 100 | 1.28 |
| 17. | Ing. Jaroslav Rusnák, PhD. | 100 | 1.26 |
| 18. | Dr. Sheikh Sazim, PhD. | 90 | 0.94 |
| 19. | Mgr. Ján Škoviera, PhD. | 100 | 1.00 |
| 20. | Ing. Vladimír Štofanik, PhD. | 25 | 0.25 |
| 21. | Mgr. Rupali Tiwari, PhD. | 5 | 0.05 |
| 22. | RNDr. Kamil Tokár, PhD. | 50 | 0.50 |
| 23. | Mgr. Karol Végsö, PhD. | 90 | 0.90 |
| 24. | Dr. Sebastian Vielhauer, PhD. | 100 | 0.96 |
| **Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)** | | | |
| 1. | Ing. Muhammad Ashraf Adeel | 5 | 0.03 |
| 2. | Ing. Monika Bírová | 5 | 0.02 |
| 3. | Mgr. Alica Brunová | 5 | 0.05 |
| 4. | Mgr. Muhammad Faraz Ud Din | 5 | 0.04 |
| 5. | Ing. Alen Fos | 5 | 0.05 |
| 6. | Mgr. Vladimír Held | 5 | 0.05 |
| 7. | Mgr. Lukáš Holka | 5 | 0.02 |
| 8. | Mgr. Ali Israt | 5 | 0.03 |
| 9. | RNDr. Dušan Janičkovič | 100 | 1.00 |
| 10. | Mgr. Gulnur Kantay | 5 | 0.05 |
| 11. | Mgr. Ivan Klbik | 5 | 0.02 |
| 12. | Mgr. Denisa Lampášová | 5 | 0.02 |
| 13. | Mgr. Eva Pospíšilová | 5 | 0.05 |
| 14. | Mgr. Farnoush Salehtash | 5 | 0.05 |
| 15. | Mgr. Nana Siddhartha Yenamandala | 5 | 0.05 |
| 16. | Mgr. Shima Sousani | 5 | 0.04 |

| | | | |
|---|---|---|---|
| 17. | Mgr. Nidhin Sudarsanan Ragini | 5 | 0.05 |
| 18. | Mgr. Andrej Špaček | 5 | 0.05 |
| 19. | MSc. Tony Thomas | 5 | 0.00 |
| 20. | Mgr. Daniel Truchan | 5 | 0.02 |
| **Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)** | | | |
| 1. | Ing. Andrea Gažová | 100 | 0.50 |
| 2. | Ing. Daniel Gogola, PhD. | 30 | 0.28 |
| 3. | Ing. Lenka Kabátová | 50 | 0.08 |
| 4. | Ing. Jana Kováčová | 100 | 1.00 |
| 5. | Ing. Bc. Mária Lindorová | 20 | 0.15 |
| 6. | Bc. Simon Mičky | 100 | 0.17 |
| 7. | Ing. Beata Solčianska | 100 | 1.00 |
| 8. | Mgr. Mária Surovcová, PhD. | 100 | 1.00 |
| 9. | Mgr. Angelika Winczerová | 100 | 1.00 |
| **Odborní pracovníci ÚSV** | | | |
| 1. | Silvia Bačová | 100 | 1.00 |
| 2. | Marta Bubničová | 100 | 1.00 |
| 3. | Ingrid Erdélska | 100 | 0.50 |
| 4. | Michal Halász | 100 | 1.00 |
| 5. | Emília Hoffmannová | 100 | 1.00 |
| 6. | Jana Koláriková | 100 | 1.00 |
| 7. | Marian Markovič | 100 | 1.00 |
| 8. | Monika Rácová | 100 | 0.00 |
| 9. | Ivan Sabo | 60 | 0.60 |
| 10. | Oľga Švančarová | 70 | 0.70 |
| 11. | Zita Vaňovičová | 75 | 0.75 |
| 12. | Jana Zvončeková | 100 | 1.00 |
| **Ostatní pracovníci** | | | |
| 1. | Róbert Kostka | 100 | 0.38 |

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

| | Meno s titulmi | Dátum odchodu | Ročný prepočítaný úväzok |
|---|---|---|---|
| **Vedúci vedeckí pracovníci DrSc.** | | | |
| 1. | Doc. RNDr. Emil Běták, DrSc. | 30.9.2021 | 0.53 |
| **Samostatní vedeckí pracovníci** | | | |
| 1. | RNDr. Daniel Reitzner, PhD. | 10.10.2021 | 0.45 |

| | | | |
|---|---|---|---|
| **Vedeckí pracovníci** | | | |
| 1. | Mgr. Michal Bodík, PhD. | 30.6.2021 | 0.06 |
| 2. | Mgr. Jakub Hagara, PhD. | 5.3.2021 | 0.03 |
| 3. | Mgr. Jozef Klimo, PhD. | 31.12.2021 | 1.00 |
| 4. | Mgr. Martina Miklošovičová, PhD. | 30.6.2021 | 0.35 |
| 5. | Mgr. Mohammed Hamed Mohammady, PhD. | 28.2.2021 | 0.17 |
| 6. | Ing. Matúš Sedlák, PhD. | 31.8.2021 | 0.67 |
| 7. | MSc. Ashin Shaji, PhD. | 31.8.2021 | 0.05 |
| 8. | Dr. Sourbh Thakur, PhD. | 31.5.2021 | 0.42 |
| **Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)** | | | |
| 1. | Mgr. Gulnur Kantay | 31.12.2021 | 0.05 |
| 2. | Mgr. Jakub Krajňák | 31.7.2021 | 0.03 |
| 3. | Mgr. Jaroslav Pavličko | 30.6.2021 | 0.05 |
| 4. | Ing. Rudolf Senderák, Piešťany | 22.6.2021 | 0.30 |
| **Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)** | | | |
| 1. | Mgr. Ursula Juhásová | 28.2.2021 | 0.00 |
| 2. | Ing. Mária Jusková | 4.10.2021 | 0.35 |
| **Odborní pracovníci ÚSV** | | | |
| 1. | Rebeca Voleková | 31.8.2021 | 0.50 |

**Zoznam doktorandov**

| | Meno s titulmi | Škola/fakulta | Študijný odbor |
|---|---|---|---|
| **Interní doktorandi hradení z prostriedkov SAV** | | | |
| 1. | Mgr. Israt Ali | Fakulta matematiky, fyziky a informatiky UK | 4.1.4 kvantová elektronika a optika |
| 2. | Mgr. Muhammad Adeel Ashraf | Fakulta matematiky, fyziky a informatiky UK | 4.1.4 kvantová elektronika a optika |
| 3. | Mgr. Monika Bírová | Fakulta matematiky, fyziky a informatiky UK | 4.1.5 jadrová a subjadrová fyzika |
| 4. | Mgr. Alica Brunová | Fakulta matematiky, fyziky a informatiky UK | 4.1.4 kvantová elektronika a optika |
| 5. | Ing. Alen Fos | Fakulta elektrotechniky a informatiky STU | 5.2.48 fyzikálne inžinierstvo |
| 6. | Mgr. Vladimír Held | Fakulta matematiky, fyziky a informatiky UK | 4.1.4 kvantová elektronika a optika |
| 7. | Mgr. Lukáš Holka | Fakulta matematiky, fyziky a informatiky UK | 4.1.5 jadrová a subjadrová fyzika |
| 8. | Mgr. Gulnur Kantay | Fakulta matematiky, fyziky a informatiky UK | 4.1.5 jadrová a subjadrová fyzika |
| 9. | Mgr. Ivan Klbik | Fakulta matematiky, fyziky a informatiky UK | 4.1.3 fyzika kondenzovaných látok a akustika |

| | | | |
|---|---|---|---|
| 10. | Mgr. Denisa Lampášová | Fakulta matematiky, fyziky a informatiky UK | 4.1.2 všeobecná fyzika a matematická fyzika |
| 11. | Mgr. Ijaz Ahamed Mohammad | Fakulta matematiky, fyziky a informatiky UK | 4.1.2 všeobecná fyzika a matematická fyzika |
| 12. | Mgr. Jaroslav Pavličko | Fakulta matematiky, fyziky a informatiky UK | 4.1.2 všeobecná fyzika a matematická fyzika |
| 13. | Mgr. Eva Pospíšilová | Fakulta matematiky, fyziky a informatiky UK | 4.1.2 všeobecná fyzika a matematická fyzika |
| 14. | MSc. Ricardo Rivera Cardoso | Fakulta matematiky, fyziky a informatiky UK | 4.1.2 všeobecná fyzika a matematická fyzika |
| 15. | Mgr. Farnoush Salehtash | Fakulta matematiky, fyziky a informatiky UK | 4.1.4 kvantová elektronika a optika |
| 16. | MSc. Nana Siddhartha Yenamandala | Fakulta matematiky, fyziky a informatiky UK | 4.1.2 všeobecná fyzika a matematická fyzika |
| 17. | MSc. Nidhin Sudarsanan | Fakulta matematiky, fyziky a informatiky UK | 4.1.2 všeobecná fyzika a matematická fyzika |
| 18. | Mgr. Andrej Špaček | Fakulta matematiky, fyziky a informatiky UK | 4.1.5 jadrová a subjadrová fyzika |
| 19. | Mgr. Daniel Truchan | Fakulta matematiky, fyziky a informatiky UK | 4.1.4 kvantová elektronika a optika |
| **Interní doktorandi hradení z iných zdrojov** | | | |
| 1. | MSc. Faizan Ahmad | Fakulta matematiky, fyziky a informatiky UK | 4.1.3 fyzika kondenzovaných látok a akustika |
| 2. | Mgr. Muhammad Faraz Ud Din | Fakulta elektrotechniky a informatiky STU | 5.2.48 fyzikálne inžinierstvo |
| 3. | Mgr. Shima Sousani | Fakulta matematiky, fyziky a informatiky UK | 4.1.4 kvantová elektronika a optika |
| 4. | Mgr. Tony Thomas | Fakulta matematiky, fyziky a informatiky UK | 4.1.2 všeobecná fyzika a matematická fyzika |
| **Externí doktorandi** | | | |
| *organizácia nemá externých doktorandov* | | | |

**Zoznam zamestnancov prijatých do jedného roka od získania PhD.**

| | Meno s titulmi | Dátum obhajoby | Dátum prijatia | Úväzok (v %) |
|---|---|---|---|---|

**Zoznam emeritných vedeckých zamestnancov**

| | Meno s titulmi |
|---|---|
| 1. | RNDr. Emília Illeková, DrSc. |
| 2. | Ing. Ľudovít Kubičár, DrSc. |
| 3. | Prof., RNDr. Eva Majerníková, DrSc. |
| 4. | RNDr. Peter Mrafko, CSc. |
| 5. | RNDr. Anton Šurda, CSc. |

***Príloha B***

**Projekty riešené v organizácii**

## Medzinárodné projekty

## Programy: Medzivládna dohoda

**1.) Cieľový projekt — Fundamental Interactions of Fields and Particles** *(Fundamental Interactions of Fields and Particles)*

| | |
|---|---|
| **Zodpovedný riešiteľ:** | Stanislav Dubnička |
| **Trvanie projektu:** | 1.7.2017 / 31.12.2023 |
| **Evidenčné číslo projektu:** | 01-3-1135-2019/2023 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Spojený ústav jadrových výskumov v Dubne |
| **Počet spoluriešiteľských inštitúcií:** | 1 - Rusko: 1 |
| **Čerpané financie:** | - |

<u>*Dosiahnuté výsledky:*</u>

V roku 2021 sa pokračovalo v spolupráci so skupinou prof. M. A. Ivanova z BLTP na vypracovaní predpovedí merateľných veličín v procesoch rozpadov ťažkých multikvarkových stavov (mezónov, baryónov, tetrakvarkov,...) za pomoci využitia tzv. kovariantného kvarkového modelu. Zameranie našej práce bolo orientované na tie rozpady B mezónu, ktoré v konečnom stave obsahujú ľahkú časticu \phi alebo \rho spolu s časticou D. Jedná sa o množinu rozpadov s bohatými vlastnosťami. Jednotlivé procesy sa odlišujú spinovou a „flavor“ štruktúrou ako aj topológiou Feynmanových diagramov. Bolo vyhodnotených dokopy 22 rozpadových procesov popísaných troma topológiami diagramov. Možno konštatovať, že bol dosiahnutý, sčasti očakávane, limit použiteľnosti predpokladu faktorizácie pri tzv. „color-supressed“ procesoch.

**2.) Cieľový projekt — Research on Relativistic Heavy and Light Ion Physics. Experiments at the Accelerator Complex Nuclotron/NICA at JINR and CERN SPS** *(Research on Relativistic Heavy and Light Ion Physics. Experiments at the Accelerator Complex Nuclotron/NICA at JINR and CERN SPS)*

| | |
|---|---|
| **Zodpovedný riešiteľ:** | Štefan Gmuca |
| **Trvanie projektu:** | 1.1.2009 / 31.12.2023 |
| **Evidenčné číslo projektu:** | 02-1-1087-2009/2023 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Fyzikálny ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 1 - Rusko: 1 |
| **Čerpané financie:** | - |

<u>*Dosiahnuté výsledky:*</u>

V rámci témy sme ďalej pokračovali v mapovaní nelokálnej výmennej časti interakcie relativistického Dirac–Hartree–Fock prístupu pre hustú jadrovú hmotu. Bola získaná nová tvarová funkcia pre nelineárne self–interakčné členy. Započali sme tiež so zahrnutím chirálnej symetrie. V rámci projektu sa buduje nový hybridný magnetický spektrometer SCAN-3 na detekciu nabitých a neutrálnych častíc produkovaných v stanici vnútorných terčov na Nuklotróne. Boli vyvinuté nové algoritmy pre offline spracovanie digitalizovaných signálov z detektorov. Vyvíjaný dirakovský fukcionál hustoty bude v nadchádzajúcom období aplikovaný na problematiku eta–jadier, viazaného exotického systému eta–mezónu a atómového jadra.

**3.) Cieľový projekt — Synthesis and Properties of Superheavy Elements, Structure of Nuclei at the Limits of Nucleon Stability** *(Synthesis and Properties of Superheavy Elements, Structure of Nuclei at the Limits of Nucleon Stability)*

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|---|---|
| **Zodpovedný riešiteľ:** | Ján Kliman |
| **Trvanie projektu:** | 1.1.2009 / 31.12.2023 |
| **Evidenčné číslo projektu:** | 03-5-1130-2017/2023 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Spojený ústav jadrových výskumov v Dubne |
| **Počet spoluriešiteľských inštitúcií:** | 1 - Rusko: 1 |
| **Čerpané financie:** | - |

*Dosiahnuté výsledky:*

V systematickom prístupe boli prvýkrát získané absolútne účinné prierezy tvorby výparných rezíduí pri reakciách tažkých iónov 36Ar, 40Ar, 40Ca a 48Ca s jadrami 144Sm, 148Sm, 144Nd, 166Er a natSm, blízkymi uzavretej neutrónovej šupke N = 126. Jadrové reakcie bol realizované pri okolobariérovej excitačnej energii deformovaných a nedeformovaných jadier terča a projektilu. Výsledky experimentov potvrdzujú, že výška bariéry sa v závislosti od ich deformácie mení o 5 až 7 MeV. Takáto závislosť výšky fúznej bariéry od deformácie jadier projektilu a terča bola experimentálne získaná prvýkrát.

Experimentálne bola skúmaná vhodnosť použitia nových materiálov pri syntéze 283Fl s cieľom zvýšenia efektívnosti a stability hmotnostného spektrometra MASHA. Boli skúmané výparné fólie z grafénu a nanotrubiek.

Veľký objem prác bol vykonaný pri projektovaní a konštrukcii nového kryogénneho plynového chladiča a lapača (trap) syntetizovaných iónov superťažkých atómov v spolupráci s Max Planck Institute, Heidelberg.

## Programy: COST

**4.) Lapené ióny: Rozvoj klasických a kvantových aplikácií** *(Trapped ions: Progress in classical and quantum applications)*

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|---|---|
| **Zodpovedný riešiteľ:** | Vladimír Bužek |
| **Trvanie projektu:** | 19.12.2019 / 17.9.2022 |
| **Evidenčné číslo projektu:** | CA 17113 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Stockholms Universitet |
| **Počet spoluriešiteľských inštitúcií:** | 11 - Rakúsko: 1, Česko: 1, Nemecko: 1, Dánsko: 1, Fínsko: 1, Francúzsko: 2, Veľká Británia: 1, Holandsko: 1, Nórsko: 1, Poľsko: 1 |
| **Čerpané financie:** | -<br>Podpora medzinárodnej spolupráce z národných zdrojov: 2870 € |

*Dosiahnuté výsledky:*

Pripravili sme článok na tému PQC.

**5.) Vysoko-výkonné uhlíkové kompozity s inovatívnymi vlastnosťami pre aplikácie pokročilého snímania** *(High-performance Carbon-based composites with Smart properties for*

*Advanced Sensing Applications)*

**Zodpovedný riešiteľ:** Peter Šiffalovič
**Trvanie projektu:** 21.10.2020 / 20.10.2024
**Evidenčné číslo projektu:** CA19118
**Organizácia je koordinátorom projektu:** nie
**Koordinátor:** Fyzikálny ústav SAV
**Počet spoluriešiteľských inštitúcií:** 0
**Čerpané financie:** -
Podpora medzinárodnej spolupráce z národných zdrojov: 3588 €

*Dosiahnuté výsledky:*

## Programy: Multilaterálne - iné

**6.) Rozvoj učenia založeného na bádaní pomocou IYPT** *(Development of Inquiry Based Learning via IYPT)*

**Zodpovedný riešiteľ:** Martin Plesch
**Trvanie projektu:** 1.11.2019 / 30.6.2022
**Evidenčné číslo projektu:** 2019-1-SK01-KA201-060798
**Organizácia je koordinátorom projektu:** áno
**Koordinátor:** Fyzikálny ústav SAV
**Počet spoluriešiteľských inštitúcií:** 7 - Rakúsko: 2, Bulharsko: 1, Česko: 1, Maďarsko: 1, Slovensko: 1, Slovinsko: 1
**Čerpané financie:** Erasmus+: 18000 €
MVTS SAV: 2870 €

*Dosiahnuté výsledky:*
Projekt sa po stabilizácie pandemickej situácie rozbehol, boli spracované kľúčové výstupy projektu a prebehlo multiplikačné podujatie v Bratislave.

**7.) Kvantovo informačná štruktúra priestoročasu** *(Quantum Information Structure of Spacetime)*

**Zodpovedný riešiteľ:** Mário Ziman
**Trvanie projektu:** 1.12.2019 / 31.8.2022
**Evidenčné číslo projektu:** JTF-61466
**Organizácia je koordinátorom projektu:** nie
**Koordinátor:** Université d' Aix-Marseille, Center for Theoretical Physics
**Počet spoluriešiteľských inštitúcií:** 11 - Rakúsko: 1, Belgicko: 1, Kanada: 2, Veľká Británia: 1, Hongkong: 1, Taliansko: 1, Mexiko: 1, Poľsko: 1, USA: 2
**Čerpané financie:** John Templeton Foundations: 32636 €
Podpora medzinárodnej spolupráce z národných zdrojov: 2870 €

*Dosiahnuté výsledky:*
Navrhli sme protokol pre kvantový switch v gravitačnom poli sférickej hmoty a určili časový interval potrebný na jeho realizáciu v gravitačnom poli Zeme. Preskúmali sme previazanie medzi vlastným časom a polohou ako zdroj pre implementáciu kvantového switchu. Publikovali sme 2 články.

## Programy: Bilaterálne - iné

**8.) Širokopásmové detektory na báze perovskitov - od kvantovej bodky k funkčnému detektoru** *(Perovskites Quantum Dots based Broadband Detectors – from a quantum dot to a functional detector)*

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|---|---|
| **Zodpovedný riešiteľ:** | Peter Šiffalovič |
| **Trvanie projektu:** | 1.11.2021 / 31.10.2024 |
| **Evidenčné číslo projektu:** | |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Fyzikálny ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 8 - Česko: 2, Maďarsko: 2, Japonsko: 2, Poľsko: 2 |
| **Čerpané financie:** | -<br>Podpora medzinárodnej spolupráce z národných zdrojov: 4133 € |

*Dosiahnuté výsledky:*
V prvej fáze projektu sme sa zamerali na prípravu Langmuirových filmov zo samousporiadaných perovskitových kvantových bodiek (PQD). Identifikovali sme vhodnú kvapalnú subfázu, ktorá podporuje tvorbu samousporiadaných monovrstiev PQDs. Stabilitu Langmuirových filmov sme overili meraniami fotoluminiscencie in-situ a technikami charakterizácie povrchu ex-situ vrátane AFM a GISAXS. Tento výsledok otvára možnosť samousporiadania PQDs do veľkých, priestorovo homogénnych filmov a ich následného prenosu na ľubovoľné substráty.

## Programy: ERANET

**9.) Kvantové technolólgie založené na supraindukovanej ultrasilnej väzbe** *(Superinductor-based Quantum Technologies with Ultrastrong Couplings)*

| | |
|---|---|
| **Zodpovedný riešiteľ:** | Miroslav Grajcar |
| **Trvanie projektu:** | 1.4.2020 / 31.7.2023 |
| **Evidenčné číslo projektu:** | |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Barcelona Supercomputing Center |
| **Počet spoluriešiteľských inštitúcií:** | 4 - Nemecko: 2, Francúzsko: 1, Taliansko: 1 |
| **Čerpané financie:** | -<br>Podpora medzinárodnej spolupráce z národných zdrojov: 33333 € |

*Dosiahnuté výsledky:*
Vyvinuli sme novú jednoduchú metódu na určovanie frekvenčnej závislosti komplexnej vodivosti neusporiadaných supravodičov [1,2]. Neusporiadané supravodiče boli použité na prípravu

planárnych štruktúr s vysokou kinetickou indukčnosťou vhodnou pre produkciu superindukčností a navrhli sme ich využitie v obvodoch cQED ako planárnych filtrov. Kinetická indukčnosť bola určená z mikrovlnných meraní [3,4]. Taktiež sme merali a analyzovali pole Josephsonových spojov silno naviazaných na supravodivý koplanárny rezonátor [5]. Bolo tiež navrhnuté pole antiferomagnetických viazaných supravodivých qubitov umiestnených vo vnútri supravodivého koplanárneho rezonátora. Antiferomagnetická väzba bola realizovaná Josephsonovou indukčnosťou. Pole qubitov bolo simulované kvantovým Isingovým modelom. Magnetizácia takéhoto systému vykazuje hysterézne správanie so skokmi. Očakávame, že prechádzajúci fotón zmení väzbovú energiu, čo spôsobí prepnutie magnetizácie z kladnej do zápornej hodnoty a naopak. Dizajn bol optimalizovaný pre IPHT Jena technológiu niobových submikrónových Josephsonových spojov, kde bude dizajn realizovaný.

Prebudovali sme našu experimentálnu aparatúru namontovaním mikrovlnných prepínačov do refrigerátora, inštalovali sme nové koaxiálne káble a pripojili a testovali sme nový nízkošumový širokopásmový zosilňovač. To nám umožní merať viac vzoriek pri jednom schladení refrigerátora.

**10.) Z vesmíru do laboratória: vývoj nového typu permanentných magnetov na báze fázy L10-FeNi** *(From the Cosmos to the Lab: Development of the L10-FeNi Phase as a Disruptive Permanent Magnet Alternative)*

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|---|---|
| **Zodpovedný riešiteľ:** | Peter Švec |
| **Trvanie projektu:** | 1.10.2020 / 30.9.2023 |
| **Evidenčné číslo projektu:** | nepridelené |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | IMDEA Nanociencia, Madrid |
| **Počet spoluriešiteľských inštitúcií:** | 2 - Španielsko: 2 |
| **Čerpané financie:** | -<br>Podpora medzinárodnej spolupráce z národných zdrojov: 25000 € |

*Dosiahnuté výsledky:*

V spolupráci s partnermi sme navrhli a rozpracovali viacero fyzikálnych a technologických prístupov zameraných na transformácie v systémoch pripravených v nerovnovážnom stave s kvázi-equiatomárnym obsahom Fe a Ni s cieľom preskúmať reakčné cesty riadiace usporiadanie atómov Fe a Ni v kubických a tetragonálnych mriežkach. Zostavili sme zariadenie na tzv. hot-casting a pripravili sme prvé série vzoriek zachladením na teploty v okolí fázového prechodu medzi kubickou a usporiadanou tetragonálnou štruktúrou L10-FeNi, spravili sme počiatocné štruktúrne, magnetické a chemické analýzy vzoriek po príprave a po následnom spracovaní. Popri konvenčných technikách spracovania sme aplikovali širokú škálu dostupných termodynamických parametrov na cielenú podporu procesov vzájomného usporiadania atómov Fe a Ni, najmä skokové a cyklické žíhanie kombinované so spracovaním v magnetických poliach. Pripravili sme aj systémy s chemickou modifikáciou rozmerov základnej kubickej bunky prekurzora na zvýšenie koeficientu vzájomnej difúzie oboch prvkov, kde sme výhodne využili zvýšenie sklotvornosti a nárast mrieškového parametra bcc mriežky legovaním malými množstvami Sn. Pripravili sme aj metodiky štruktúrnej analýzy umožňujúce detekciu štruktúry L10 a analýzy tenkovrstvových vzoriek partnerov.

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

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|---|---|
| **Zodpovedný riešiteľ:** | Mário Ziman |
| **Trvanie projektu:** | 1.4.2018 / 30.3.2021 |
| **Evidenčné číslo projektu:** | |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Centre National de la Recherche Scientifique |
| **Počet spoluriešiteľských inštitúcií:** | 4 - Rakúsko: 1, Francúzsko: 1, Veľká Británia: 1, Taliansko: 1 |
| **Čerpané financie:** | -<br>Podpora medzinárodnej spolupráce z národných zdrojov: 6250 € |

*Dosiahnuté výsledky:*

Ukázali sme, že pinned komutujúci a pinned stokvastický lokálny Hamiltonián je QMA úplný a študovali sme teoretické ohraničenia na postprocesovanie kvantových inštrumentov. Opublikovali sme dva články.

## Programy: Horizont 2020

### 12.) Targeting Real chemical accuracy at the EXascale *(Targeting Real chemical accuracy at the EXascale)*

| | |
|---|---|
| **Zodpovedný riešiteľ:** | Ivan Štich |
| **Trvanie projektu:** | 1.6.2021 / |
| **Evidenčné číslo projektu:** | 952165 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Fyzikálny ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | Horizon 2020: 9304 € |

*Dosiahnuté výsledky:*

IPSAS team will be involved in development of the TREX educational visual QMC software tool, breakthrough applications, mainly in the field of low-D materials, and the organization of the dissemination and training events (WP6, T6.2, T6.3). The tasks will be performed at the Center for Computational Materials Science (CCMS) of the IPSAS. To fulfil the mission in the area of materials research, IPSAS/CCMS has developed expertise ranging from theoretical modelling using ab-initio methods at various levels of sophistication, such as DFT methods, post- Hartree Fock, and stochastic QMC for both finite, extended, and low-D (1D, 2D) materials. In the relevant experimental materials science, IPSAS is very active in research of thin films and multilayers for applications in X-UV optics, spintronics and sensors, metal and metal oxide nanoparticles, nanoparticle self-assemblies, organic solar cells, graphene and graphene oxide thin films and advanced X-ray methods.

## Programy: JRP

### 13.) Stavy tenzorových sietí Algoritmy a aplikácie *(Tensor-Network States Algorithms and Applications)*

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|---|---|
| **Zodpovedný riešiteľ:** | Andrej Gendiar |
| **Trvanie projektu:** | 1.1.2021 / 31.12.2022 |

**Evidenčné číslo projektu:** 108-2112-M-002-020-MY3
**Organizácia je koordinátorom projektu:** nie
**Koordinátor:** National Taiwan University
**Počet spoluriešiteľských inštitúcií:** 1 - Taiwan: 1
**Čerpané financie:** -
Podpora medzinárodnej spolupráce z národných zdrojov: 25000 €

<u>*Dosiahnuté výsledky:*</u>

Tenzorová sieť je robustný matematický koncept, pomocou ktorého efektívne aproximujeme neznámy kvantový stav. Študovali sme dve úlohy. (1) Vyšetrovali sme špecifickú tenzorovú sieť spinového modelu s fraktálnou dimenziou d=1,792. Pomocou jedného parametra spojito meníme fraktál na homogénny systém s celočíselnou dimenziou d=2. V tejto úlohe sme analyzovali kritické vlastnosti J1-J2 modelu. Nami navrhnutá metodológia je stabilná a aplikovateľná na širokú triedu úloh s fraktálnymi štruktúrami. (2) Skúmali sme kritické správanie Isingovho feromagnetu s alternujúcim externým magnetickým poľom s rýdzo imaginárnou zložkou. Určili sme kritické exponenty, ktoré doposiaľ neboli známe a porovnali sme ich s antiferomagnetom v konštantnom, homogénnom a imaginárnom magnetickom poli. Obidva rukopisy sú v recenznom konaní časopisu Physical Review E (arXiv:2107.11406, arXiv:2112.09536).

**14.) Nové magneticky mäkké jadrá pre satelitné zariadenia a magnetometre pracujúce v kozmických podmienkach** *(Novel soft magnetic cores tailored for use in space qualified magnetometers and satellite devices)*

**Zodpovedný riešiteľ:** Ivan Škorvánek
**Zodpovedný riešiteľ v organizácii SAV:** Peter Švec
**Trvanie projektu:** 1.9.2018 / 31.12.2021
**Evidenčné číslo projektu:**
**Organizácia je koordinátorom projektu:** nie
**Koordinátor:** Ústav experimentálnej fyziky SAV
**Počet spoluriešiteľských inštitúcií:** 1 - Turecko: 1
**Čerpané financie:** -
Podpora medzinárodnej spolupráce z národných zdrojov: 8333 €

<u>*Dosiahnuté výsledky:*</u>

Pseudoobjemové vzorky v tvare dvoj a viacvrstiev kovových skiel boli využité na prípravu vysokocitlivých detektorov ultranízkych magnetických polí (publikácia v IEEE Sensors Journal). Podrobnejšie sme pseudoobjemové viacvrstvové vzorky prezentovali na medzinárodných konferenciách PM'21 v Poľsku (plenárna prednáška) a ICSM 2021 v Turecku (pozvaná prednáška a ďalšie dve prednášky). Obzvlášť vzbudili pozornosť výsledky v pozvanej prednáške, kde sme ukázali potenciál skúmaných materiálov v kombinácii optimalizácie zloženia a spracovania s vrstvením pások formou simultánneho rýchleho ochladenia vrstiev rovnakého alebo rôzneho zloženia, napr. viacvrstvový senzor magnetických polí pracujúci na báze javu obrovskej magnetoimpedancie, ktorý vykazoval dvojnásobnú citlivosť a odolnosť voči rušivým vplyvom. Naše súčasné výsledky a predošlé výstupy viedli aj k pozvaniu spoluorganizovať a viesť jednu zo sekcií tejto konferencie (Magnetic Recording, Sensors and Microwave Devices, spoločne s tureckým partnerom).

**Domáce projekty**

## Programy: VEGA

**1.) Využitie SU(3) symetrie a analytičnosti na nové teoretické vyhodnotenie g-2 anomálie, predpovedanie správania sa hyperónových elektromagnetických formfaktorov a vyhodnotenie vybraných rozpadov hadrónov** *(An utilization of the SU(3) symmetry and the analyticity for a new theoretical evaluation of the g-2 anomaly, the prediction of the behavior of hyperon electromagnetic form factors and the evaluation of selected hadronic decays)*

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| **Zodpovedný riešiteľ:** | Erik Bartoš |
| **Trvanie projektu:** | 1.1.2021 / 31.12.2024 |
| **Evidenčné číslo projektu:** | 2/0105/21 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Fyzikálny ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA SAV: 6468 € |

*Dosiahnuté výsledky:*

Zaujímavým výsledkom bolo po prvý krát predpovedanie správania sa neutrónových formfaktorov v celom priestore ich definície len za pomoci údajov o protónových elektromagnetických formfaktoroch. Takto získaný výsledok sa podarilo dosiahnuť pomocou nami rozpracovaného unitárneho a analytického modelu pre nukleónové elektromagnetické formfaktory s kanonickými normalizačnými podmienkami, QCD asymptotickým správaním a špecifickými transformačnými vlastnosťami nukleónového elektromagnetického prúdu v izotopovom priestore. Boli publikované tri publikácie z oblasti numerických a matematických metód, zaoberajúce sa numerickou implementáciou metód diferencovania pomocou integrácie a ich maximálnym zovšeobecnením, ako aj viacdimenzionálnou numerickou integráciou.

**2.) Výskum optických a morfologických vlastností nerovných a poréznych povrchov p-typu kryštalického kremíka s cieľom jednoznačne dokázať za akých podmienok pozorujeme jav kvantového uväznenia v kremíkových nanokryštáloch**

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| **Zodpovedný riešiteľ:** | Róbert Brunner |
| **Trvanie projektu:** | 1.1.2020 / 31.12.2023 |
| **Evidenčné číslo projektu:** | 2/0071/20 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Fyzikálny ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA SAV: 3551 € |

*Dosiahnuté výsledky:*

Boli editorsky spracované príspevky zo SURFINT-SREN konferencie a boli opublikované v rôznych číslach časopisu Applied Surface Science.

**3.) Jadrová štruktúra v okolí uzavretých protónových vrstiev**

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| **Zodpovedný riešiteľ:** | Andrej Herzáň |
| **Trvanie projektu:** | 1.1.2021 / 31.12.2023 |
| **Evidenčné číslo projektu:** | |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Fyzikálny ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA: 27656 € |

<u>*Dosiahnuté výsledky:*</u>

Úspešne sme realizovali 14 dňový experiment zameraný na štúdium štruktúry exotických jadier Bi-191,192 metódami in-beam gama spektroskopie a rozpadovej spektroskopie. Hlavný riešiteľ grantu, Andrej Herzáň, bol zároveň spokesperson daného experimentu. Experiment sa uskutočnil v Urýchľovačovom laboratóriu Univerzity v Jyväskylä (JYFL) vo Fínsku v rámci kolaborácie FÚ SAV, JYFL Fínsko, University of Liverpool (UK) a Abo Akademi (FI). Namerané dáta a ich analýza nám poskytnú hlbší pohľad na dôležité štrukturálne efekty v oblasti uzavretej protónovej Z = 82 vrstvy. V izotope Bi-191 bol identifikovaný nový krátkožijúci izomér.

Zároveň bola ukončená prvá fáza R&D aktivít súvisiacich s novým polarimetrom, ktorý bude umiestnený v Tandetrónovom laboratóriu v Piešťanoch. Ten prispeje k rozšíreniu experimentálneho výskumného programu na FÚ SAV.

Počet publikácií v rámci riešenia grantu v r. 2021: 3

**4.) Kombinácia nanočastíc a esenciálnych olejov na zmiernenie biologického poškodenia rôznych typov stavebných materiálov** *(Combination of nanoparticles and essential oils for mitigating the biodeterioration on various types of building materials)*

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| **Zodpovedný riešiteľ:** | Monika Hofbauerová |
| **Trvanie projektu:** | 1.1.2019 / 31.12.2021 |
| **Evidenčné číslo projektu:** | 2/0059/19 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Fyzikálny ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA SAV: 8238 € |

<u>*Dosiahnuté výsledky:*</u>

V súlade s harmonogramom projektu sme počas tretieho roku riešenia projektu pokračovali vo výskume antimikrobiálneho efektu esenciálnych olejov (EOs) v kombinácii s hydrofóbnymi uhlíkovými kvantovými bodkami (hCQDs) a polycaprolaktónovými nanokapsulami (PCLNs). Nadväzovali sme na výskum realizovaný v prvej a druhej fáze projektu. Sledovali sme antimikrobiálny efekt na dvoch druhoch stavebného materiálu: drevo-smrekovec a pieskovec. Na stanovenie antimikrobiálneho účinku EOs a hCQDs sme použili mikrovláknité huby izolované zo stavebného materiálu, kde sme skúmali efekt z hľadiska ochrany povrchu materiálu. Tu sme však nedosiahli výrazného účinku pôsobenia hCQDs, kde antimikrobiálne účinky sú vyvolané tvorbou singletového kyslíka, ktorý je aktivovaný pôsobením modrého svetla. Pri použití PCLNs sme v niektorých prípadoch zaznamenali 100% antimikrobiálny efekt, ktorý bol sledovaný na rôznych druhoch mikrokultúr.

Publikované výsledky: 2 články v CC

**5.) Vrstvy trioxidu volfrámu pre chemirezistívne senzory stopových koncentrácií acetónu vo vzduchu** *(Tungsten-trioxide layers for chemiresistive sensing of trace concentration of acetone vapours in air)*

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| **Zodpovedný riešiteľ:** | Ján Ivančo |
| **Trvanie projektu:** | 1.1.2020 / 31.12.2022 |
| **Evidenčné číslo projektu:** | 2/0156/20 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Fyzikálny ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA SAV: 3562 € |

*Dosiahnuté výsledky:*

Projekt je zameraný na štúdium štruktúrnych vlastností nanočastíc polymorfného trioxidu volfrámu (WO3), ktorý je aplikovateľný napr. v chemi-odporových senzoroch plynov Teplotné rozsahy pre jednotlivé kryštalografické fázy v objemovom a nanoštruktúrovanom WO3 sa môžu líšiť, v nanoštruktúrovanom WO3 môžu koexistovať dve fázy. V predchádzajúcom období sme pomocou Ramanovej spektroskopie s vysokým rozlíšením demonštrovali, že pásy, ktoré bývajú pozorované pri cca 92 a 144 cm-1, sú dublety; jednotlivé zložky dubletov sme priradili k špecifickým kryštalografickým fázam WO3 identifikovaným pomocou rtg difrakcie.

V predchádzajúcom období sme vykonali experiment, v ktorom sme skúmali jemnú štruktúru absorpčného spektra v rtg oblasti (XAFS, x-ray absorption fine spectroscopy, ELETTRA, Trieste) nanočastíc FeOx. Cieľom bolo demonštrovať, že expozícia nanočastíc FeOx dokonca aj stopovými koncentráciami acetónových pár (primiešaných do vzduchu) vedie k zmene v chemickom zložení FeOx, a nie iba k adsorpcii molekúl acetonu. Vyhodnocovanie experimentu je rozpracované, predbežný výsledok potvrdzuje náš predpoklad, čo umožní preformulovať model pre mechanizmus detekcie chemi-odporového senzora(ov). Získané 4 publikácie.

**6.) Efekty v priestorovo ohraničených difúznych systémoch** *(Effects in spatially confined diffusion systems)*

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| **Zodpovedný riešiteľ:** | Pavol Kalinay |
| **Trvanie projektu:** | 1.1.2021 / 31.12.2023 |
| **Evidenčné číslo projektu:** | 2/0044/21 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Fyzikálny ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA: 1990 € |

*Dosiahnuté výsledky:*

Študovali sme efekt usmernenia (ratchet) náhodného pohybu častice difundujúcej buď na čiare v 1D potenciáli, alebo v 2D kanáli s premenným prierezom. Častica je budená náhodnou silou (vonkajšou, alebo vlastnou ako Janusova častica) dopredu alebo dozadu. Rozšírená metóda mapovania dynamiky takéhoto systému na pozdĺžnu súradnicu umožňuje nájsť zovšeobecnenú 1D Fick-Jacobsovu (FJ) rovnicu s efektívnym potenciálom a difúznym koeficientom v tvare rozvoja v inverznej frekvencii zmien orientácie budiacej sily. Efektívny potenciál v asymetrickom periodickom kanáli nadobúda rastúcu/klesajúcu zložku zodpovedajúcu sile, ktorá efektívne ženie častice jedným smerom pozdĺž kanála; zodpovedajúci usmernený tok častíc je možné jednoducho vypočítať. Ukázali sme, že štandardne používaná FJ aproximácia, redukujúca 2D kanál na entropický 1D potenciál môže byť nepresná o viac než rád. Výsledky sú publikované v dvoch článkoch vo Phys. Rev. E.

**7.) Metóda prípravy vzoriek pre IBA a XRF aplikácie**

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| **Zodpovedný riešiteľ:** | Ján Kliman |
| **Trvanie projektu:** | 1.1.2021 / 31.12.2023 |
| **Evidenčné číslo projektu:** | 2/0181/21 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Fyzikálny ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA SAV: 4229 € |

*Dosiahnuté výsledky:*

Dosiahol sa pokrok v našom úsilí vyvinúť diracovský funkcionál hustoty pre hustú jadrovú hmotu. Výmenná časť hustoty energie lineárneho modelu Dirac-Hartree-Fock (DHF) v symetrickej jadrovej hmote bola získaná v uzavretej forme bez parametrov a v tvare vhodnom pre funkcionál hustoty. Hustotná závislosť efektívnych väzbových konštánt odráža výmenné korelácie. Vyvinutý formalizmus je potom rozšírený aj na nelineárnu aproximáciu DHF. V konečnej fáze sa Diracov funkcionál hustoty použije na výpočet štruktúry exotických eta-jadier.

Ukazuje sa, že pomocou jednoduchého modelu pi-NN efektívnej interakcia vyjadrenej v tvare lineárnej kombinácie pseudoskalárnych (PS) a pseudovektorových (PV) väzieb je možné získať kvantitatívny popis vlastností jadrovej hmoty. Pseudoskalárna prímes iba 25-35% predstavuje veľkú časť potrebnej hustotnej závislosti pre vektorové a skalárne sektory DHF modelu mapovaného na relativistickú aproximáciu stredného poľa. Koeficient nestlačiteľnosti jadrovej hmoty pri nasýtení, K, citlivo závisí od podielu PS interakcie.

Využitie izolovaných rezonancií elastického spätného rozptylov (EBS) ľahkých iónov na ľahkých jadrách predstavuje atraktívnu možnosť pre energetickú kalibráciu zväzku malých urýchľovačov, ktoré sa často používajú v aplikáciách IBA. V porovnaní s prevládajúcou metódou kalibrácie pomocou radiačného záchytu a/alebo prahových reakcií emisie neutrónov je tento prístup vo všeobecnosti jednoduchší a časovo menej náročný. Ukázalo sa, že odvodená formula pre výťažky EBS rezonancií, napriek ich vlastnej závislosti od uhla rozptylu, je dobre opísaná zovšeobecneným Breit-Wignerovým vzorcom. Môže sa použiť na odvodenie parametrov rezonancie z meraní na tenkom/hrubom terči bez zahrnutia formalizmu R-matice.

Počas prvého roku riešenia boli všetky aktivity sústredené na návrh konštrukcie produkčnej komory a zhotovenie vákuového systému, umožňujúceho výrobu tenkých samonosných terčov pri rôznych parciálnych tlakoch. Okrem konštrukčných prác a komplektovania niektorých častí zariadenia boli taktiež urobené dlhodobé vysokonapäťové skúšky. Vzhľadom na pretrvávajúcu pandemickú situáciu po väčšinu minulého roka, ktorá výrazne obmedzovala prístup k experimentálnym zariadeniam, nebolo možné dokončiť depozíciu všetkých plánovaných vzoriek novoaplikovanou metódou HIVIPP. Tento zámer sa odkladá a presúva na ďalšie obdobie. Bola však započatá príprava nového zariadenia HIVIPP pre depozíciu práškových vzoriek vo vákuu.

**8.) Kritické vlastnosti neštandardných tenzorových sietí** *(Critical properties of non-standard tensor networks)*

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| **Zodpovedný riešiteľ:** | Roman Krčmár |

**Trvanie projektu:** 1.1.2019 / 31.12.2021
**Evidenčné číslo projektu:** 2/0123/19
**Organizácia je koordinátorom projektu:** áno
**Koordinátor:** Fyzikálny ústav SAV
**Počet spoluriešiteľských inštitúcií:** 0
**Čerpané financie:** VEGA SAV: 2985 €

*Dosiahnuté výsledky:*

V roku 2021 sme pracovali na vylepšení našich numerických metód a pomocou nich sme skúmali Isingov model na štvorcovej mriežke v externom poli, ktoré nadobúda imaginárne hodnoty. Tento výskum sme zhrnuli v článku, ktorý prechádza oponentským posudzovaním v časopise Physical Review E.

**9.) Vplyv zabudovania MXénov do perovskitových solárnych článkov Effect of incorporation of MXenes in the perovskite solar cells** *(Effect of incorporation of MXenes in the perovskite solar cells)*

**Zodpovedný riešiteľ:** Eva Majková
**Trvanie projektu:** 1.1.2021 / 31.12.2023
**Evidenčné číslo projektu:** 2/0046/21
**Organizácia je koordinátorom projektu:** áno
**Koordinátor:** Fyzikálny ústav SAV
**Počet spoluriešiteľských inštitúcií:** 0
**Čerpané financie:** VEGA: 12824 €

*Dosiahnuté výsledky:*

Charakterizácia Ti-C MXénových nanovločiek a ich optimalizácia pre zabudovanie do elektrónovej transportnej vrstvy na báze SnO2 nanočastíc a pre modifikáciu rozhraní perovskitových solárnych článkov.

Preskúmali sme efekt zabudovania MXénových nanovločiek do SnO2 vrstvy na jej elektrické transportné vlastnosti v závislosti od koncentrácie dopovania.

Preskúmali sme vplyv modifikácie rozhrania ITO/SnO2 Mxénovou medzivrstvou na elektrické transportné vlastnosti.

Vyvinuli sme ďalšiu optimalizáciu perovskitových solárnych článkov typu n-i-p s cieľom zlepšiť ich účinnosť, zvýšiť reprodukovateľnosť kľúčových parametrov a krátkodobú stabilitu.
Výstupy: 3 publikácie, jedna prezentácia (poster) na medzinárodnej konferencii.

**10.) Modifikácia rozhraní pre zlepšenie parametrov perovskitových solárnych článkov** *(Interface modifications for parameters improvement of perovskite solar cells)*

**Zodpovedný riešiteľ:** Vojtech Nádaždy
**Trvanie projektu:** 1.1.2018 / 31.12.2021
**Evidenčné číslo projektu:** 2/0081/18
**Organizácia je koordinátorom projektu:** áno
**Koordinátor:** Fyzikálny ústav SAV
**Počet spoluriešiteľských** 0

**inštitúcií:**
**Čerpané financie:** VEGA SAV: 7187 €

*Dosiahnuté výsledky:*

S cieľom optimalizovať prípravu perovskitovej vrstvy študovali sme kinetiku kryštalizácie, tvorbu defektov a ich vplyv na fotokonverziu metódou in-situ GIWAXS a meraním luminiscencie v reálnom čase. Ukázali sme pozitívny vplyv podkladovej 2D vrstvy ako grafén na rast silne texturovanej vrstvy 2D perovskitu. Zistili sme zásadný vplyv hraníc zŕn ako defektných centier pre nežiarivú rekombináciu v 3D perovskite. Našli sme úzke časové okno pre pulzné laserové žíhanie perovskitovej vrstvy metódou FIRA, čo otvára možnosť kontinuálnej prípravy solárnych článkov metódou "roll-to-roll". Na súbore zmesových vrstiev polymérov s akceptorovými molekulami sme systematicky študovali energetický ofset na rozhraní polymér/akceptor, ktorý určuje fotoindukovaný prenos náboja v organických solárnych článkoch. Metódou ER-EIS sme zistili, že následkom zmiešania polyméru a akceptoru dochádza k relatívnym posunom medzi energetickými pásmi. Tieto posuny určujú efektivitu generácie voľného náboja z viazaného stavu (exitónu) do transportných pásov bez alebo s prekonaním energetickej bariéry. Vo vrstve P3HT nanesenej na bežnom substráte ITO s drsnosťou 6 nm sme identifikovali metódou GIWAXS prítomnosť dvoch polymorfných fáz, ktorá indukuje pás defektných stavov nad pásom HOMO. Taktiež sme sa zamerali na koreláciu štruktúry a optoelektronických vlastností, kde kľúčovú úlohu hrá orientácia molekúl. Súvis molekulovej a elektrónovej štruktúry sme študovali na vrstvách rôznych stereoizomérov vybraných polymérov metódami GIWAXS a ER-EIS a v kombinácii s DFT simuláciami sme objasnili, ako priestorová chemická štruktúra molekuly ovplyvňuje vlastnosti vrstvy. Metódami UV-vis spektroskopie, fotoluminiscencie a ER-EIS podporených DFT simuláciami sme študovali nové deriváty vybraných organických polovodičov z hľadiska ich vhodnosti pre optoelektronické a fotovoltické aplikácie.

Výsledky boli publikované v 7 CC časopisoch.

**11.) Benchmark Kvantových počítačov prístupných cez Klaud** *(Benchmarking Quantum computers on Cloud)*

**Zodpovedný riešiteľ:** Martin Plesch
**Trvanie projektu:** 1.1.2019 / 31.12.2022
**Evidenčné číslo projektu:** 2/0136/19
**Organizácia je koordinátorom projektu:** áno
**Koordinátor:** Fyzikálny ústav SAV
**Počet spoluriešiteľských inštitúcií:** 0
**Čerpané financie:** VEGA SAV: 5772 €

*Dosiahnuté výsledky:*

V rámci projektu bolo publikovaných 7 článkov a ďalšie 4 sú zaslané na publikovanie.

**12.) Kvantové spracovanie informácie štruktúrami vyššieho rádu** *(Higher order quantum information processing)*

**Zodpovedný riešiteľ:** Michal Sedlák
**Trvanie projektu:** 1.1.2019 / 31.12.2021
**Evidenčné číslo projektu:** 2/0161/19
**Organizácia je koordinátorom projektu:** áno
**Koordinátor:** Fyzikálny ústav SAV

**Počet spoluriešiteľských inštitúcií:** 0
**Čerpané financie:** VEGA SAV: 3682 €

Dosiahnuté výsledky:

Ústrednou témou projektu HOQIP sú zobrazenia vyššieho rádu (HOM - higher order map), popisujúce možné transformácie, ktorých vstup a výstup nie je limitovaný len na kvantové stavy, alebo kanály. Kvantové inštrumenty popisujú najvšeobecnejšie meranie stavov, t.j. zobrazenie zo stavov na (nenormované) stavy a klasické výsledky. Jednou z najjednoduchších HOM je zobrazenie z kvantových inštrumentov na kvantové inštrumenty. Tento rok sme študovali podtriedu týchto HOM, ktorá je tvorená postprocessingom kvantových inštrumentov a preskúmali sme čiastočné usporiadanie, ktoré môžeme zadefinovať na triedach ekvivalencie vzhľadom na tento postprocessing na množine inštrumentov.

Naše výsledky sme publikovali v Phys. Rev. A 103, 022615 (2021). Korektná definícia pojmov ako „práca" v kvantovej termodynamike vyžaduje korektné správanie sa takýchto veličín pri meraní s faktorizovanými stavmi systému a rezervoáru. Meranie energie v dvoch rôznych časoch (two-point energy measurement protocol) je HOM a v Phys. Rev. A 103, 042214 (2021) sme zistili aké sú podmienky pre jeho vnútornú konzistentnosť. Naše ďalšie príbuzné výsledky, ktoré charakterizujú merania termodynamických veličín, sme publikovali v Phys. Rev. Lett. 126, 210603 (2021) a Phys. Rev. E 103, 052138 (2021). Náš výsledok o rozlišovaní termálnych stavov s najmenšou chybou je v článku Phys. Rev. A 104, 062402 (2021). Množina HOM obsahuje i také zobrazenia, ktoré dokážu superponovať rôzne kauzálne poradia kvantových kanálov slúžiacich ako vstup tohto zobrazenia. Zovšeobecnili sme prototyp takéhoto zobrazenia nazývaného "quantum SWITCH" a preskúmali sme jeho klasickú komunikačnú kapacitu pre úplne depolarizujúce kanály (viď. Phys. Rev. A 103, 062610 (2021)).

Analyticky sme vypočítali Holevovu veličinu pre cyklické permutácie N vložených kanálov a pre N = 3 a 4 sme taktiež preskúmali superpozície všetkých kauzálnych poradí a rovnomernú superpozíciu kauzálnych poradí patriacich do rôznych kosetov vzhľadom na podgrupu cyklických permutácii. Nakoniec, v článku Physical Review A 104, 042414 (2021) sme preskúmali možnosti experimentálnej realizácie kvantového switchu v gravitačnom poli Zeme.

### 13.) Štatistická mechanika klasických coulombovských systémov

**Zodpovedný riešiteľ:** Ladislav Šamaj
**Trvanie projektu:** 1.1.2021 / 31.12.2023
**Evidenčné číslo projektu:**
**Organizácia je koordinátorom projektu:** áno
**Koordinátor:** Fyzikálny ústav SAV
**Počet spoluriešiteľských inštitúcií:** 0
**Čerpané financie:** VEGA: 4976 €

Dosiahnuté výsledky:

V uplynulom roku sme sa zaoberali rovnovážnou štatistickou mechanikou elektrických dvojvrstiev, t. j., systémami rovnako nabitých mobilných častíc v okolí opačne nabitej platne. Zamerali sme sa najmä vyšetrovaním vplyvu nehomogénnosti zafixovaného nábojovej hustoty na povrchu platni na hustotu mobilných častíc ako aj na efektívnu interakciu dvoch rovnobežných rovnako nabitých platní. Výsledky sú pripravené na publikáciu v dvoch CC časopisoch.

### 14.) Fyzikálne vlastnosti uväznenej vody v prostredí lipidových dvojvrstiev a vplyv kryoprotektív *(Physical properties of confined water in the environment of lipid bilayers and the*

*influence of cryoprotectants)*

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| **Zodpovedný riešiteľ:** | Ondrej Šauša |
| **Trvanie projektu:** | 1.1.2021 / |
| **Evidenčné číslo projektu:** | 2/0134/21 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Fyzikálny ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA SAV: 4677 € |

*Dosiahnuté výsledky:*

Bola urobená  štúdia na zmesi DMSO-voda v prítomnosti DMPC lipozómov, ktoré predstavovali jednoduchý model bunkovej membrány a zároveň model soft-matrice. V prípade lipozómov ide tiež o modelelový uväznený systém vody (resp. zmesí vody s ďalšími látkami) v makropóroch alebo inými slovami intracelulárne prostredie. Boli vybrané nízke koncentrácie DMSO, ktoré se využívaju pri príprave kryoprotektívnych zmesí pre uchovávanie živých buniek pri nízkych teplotách (do 10 % objemových). Potvrdila sa prítomnosť amorfnej koncentrovanej fázy DMSO v zmrazenom stave a preukázala sa jej možná kryštalizácia vo forme DMSO trihydrátu a ľadu počas rozmrazovania. Zistila sa korelácia medzi kritickým teplotným rozsahom pre stratu životaschopnosti buniek počas pomalého rozmrazovania a teplotami rekryštalizácie koncentrovanej fázy DMSO. Na základe tohto zistenia sa diskutovali možné mechanizmy kryoprotekcie DMSO s podporou výsledkov pre študovaný modelový systém. Kvantifikácia frakcie ľadovej (kryštalickej) fázy v zmrazených zmesiach odhalila, že aj nízke koncentrácie DMSO môžu vyvolať signifikantné zníženie množstva prítomného ľadu. Tieto základné experimenty poukazujú na potrebu rozšíreného štúdia nízkokoncentrovaných kryoprotektívnych zmesí dobudúcna, vzhľadom na praktický dosah takýchto výsledkov v medicínskej a biologickej praxi.

DSC merania ukázali:

- Prítomnosť DMSO spôsobuje kvalitatívne zmeny vo fázovom správaní vody uväznenej v lipozómoch – teplota kryštalizácie je výrazne znížená až k teplotám nižším ako 235 K (teplota homog. nukleácie). Tento jav bol interpretovaný tak, že DMSO vytvára ochrannú vrstvu okolo lipidovej dvojvrstvy, čo zamedzuje poškodeniu v jej celistvosti počas zmrazovania.
- Teplota kryštalizácie vody uväznenej v lipozómoch klesá s narastajúcou koncentráciou DMSO.
- Množstvo kryštalickej fázy ľadu klesá s narastajúcou koncentráciou DMSO, inými slovami narastá množstvo amorfnej fázy v mrznúcej zmesi.

PALS merania ukázali:

- že rekryštalizácia počas pomalého ohrevu nad 160 K pozorovaná pre bulkové systémy bola potvrdená aj pre systém obsahujúci lipozómy,
- koreláciu medzi kritickým teplotným rozsahom pre stratu životaschopnosti buniek počas ich pomalého rozmrazovania a teplotami kedy dochádza ku rekryštalizácii amorfnej frakcie.
- že množstvo amorfnej fázy (frakcie) je úmerné množstvu DMSO v zmesi, čo súhlasí s výsledkom z DSC (množstvo ľadu). 1 odosl. publ. (RSC Advances), 1 príspevok na konf. (PPC12.5).

### 15.) Nízko-dimenzionálne materiály- manipulácia, funkcionalizácia a bioaplikácie: LOW-D-MATTER

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| **Zodpovedný riešiteľ:** | Ivan Štich |
| **Trvanie projektu:** | 1.1.2021 / |
| **Evidenčné číslo projektu:** | |
| **Organizácia je koordinátorom projektu:** | áno |

**Koordinátor:** Fyzikálny ústav SAV
**Počet spoluriešiteľských inštitúcií:** 0
**Čerpané financie:** VEGA SAV: 9578 €

Dosiahnuté výsledky:

V prvom roku riešenia projektu sme študovali metódami bezkontaktnej silovej mikroskopie a Kelvinovej silovej mikroskopie Au nanozhluky na oxidovanom povrchu rutilového povrchu TiO2(110). Kelvinovou mikroskópiou sme zistili, že tieto nanočastice sú nabité kladne a že transfér náboja z Au nanočastice do substrátu je silne závislý od veľkosti klastra. Počítačové simulácie objasnili mechanizmus vybíjania pomocou dvojkrokového modelu. Použitím triboelektrického efektu sa nám podarilo ukázať, že dynamicky je možné zmeniť redox stav Au klastrov z pozitívneho na negatívny a vypracovali sme model tohto procesu.

Koloídne kremíkové kvantové bodky vykazujú viaceré vynikajúce vlastnosti ako napr. šírku zakázaného pásu a luminiscenciu kontrolovanú veľkosťou a termináciou nanobodky a naviac sú netoxické a vhodné na biomedicínske aplikácie. Ich atomárna štruktúra je z dôvodu prítomnosti štruktúrnej neusporiadanosti a experimentálnych obmedzení neznáma. Vyvinuli sme simulačné metódy, ktoré umožňujú modelovať štruktúru týchto nanobodiek a aplikovali sme ich na silne B a P kodopované kremíkové nanobodky a následne sme študovali ich štruktúrne, elektrónové a vibračné vlastnosti.

Výsledky boli publikované v 4 CC publikáciách.

**16.) Riadenie vlastností kovových systémov modifikáciou štruktúry na atomárnej škále pomocou vnútorných a vonkajších faktorov** *(Property control of metallic systems by tailoring of structures on atomic scales by internal and external factors)*

**Zodpovedný riešiteľ:** Peter Švec
**Trvanie projektu:** 1.1.2021 / 31.12.2024
**Evidenčné číslo projektu:** 2/0144/21
**Organizácia je koordinátorom projektu:** áno
**Koordinátor:** Fyzikálny ústav SAV
**Počet spoluriešiteľských inštitúcií:** 0
**Čerpané financie:** VEGA: 23635 €

Dosiahnuté výsledky:

Kombináciou metód merania teplotne-časových závislostí fyzikálnych vlastností, kalorimetriou a špičkovými štruktúrno-analytickými metódami (rtg. difrakcia, STEM/EDS/EELS, rastrovacia elektrónova difrakcia a pod.) sme preskúmali vývoj mikroštruktúry a lokálneho usporiadania v dvoch amorfných zliatinách Al-Ni-Co-Gd s rôznym pomerom Ni/Co s cieľom vysvetliť anomálny nesúlad medzi zmenami fyzikálnych parametrov počas druhého transformačného stupňa a zdanlivou absenciou nových kryštalických fáz podľa rtg. záznamov. Detailnou vysokorozlišovacou elektrónomikroskopickou analýzou sme ukázali, že jav je spojený so vznikom špeciálneho preusporiadania atómov na sub-nanometrových škálach bez dlhodosahového chemického preusporiadania zvyškovej matrice, ktorá zvyčajne zostáva amorfná po ukončení prvého transformačného stupňa. V skúmaných zliatinách však vzniká unikátna intergranulárna nanokryštalická fáza s vysokým obsahom vrstevných chýb a s mriežkovými parametrami meniacimi sa v širokom rozsahu hodnôt. Takouto štruktúrou optimalizovanou VASP výpočtami bolo možné skorelovať doteraz pozorované rtg. záznamy a chemickú distribúciu zložiek na nanometrovej úrovni. Jav sme potvrdili aj v ternárnej zliatine Al-Ni-Gd (JALCOM, pozvaná prednáška na konferencii MC 2021, Viedeň).

Úplný popis kryštalizačných stupňov v týchto kvaternárnych a ternárnych systémoch sme doplnili aj stanovením teplotnej závislosti hustoty v roztavenom a tuhom stave v širokom intervale teplôt (Physica B).

I ntenzívne sme sa zaoberali aj kompozitmi vybraných materiálov s nanočasticami kovov a oxidov kovov (Metals). Zaujímavé výsledky dosiahnuté na kompozitoch s bázou z bezolovnatých spájok plnených nanočasticami kovov a bimetalickými nanočasticami sme preprezentovali na konf. EUROMAT 2021 (prednáška “keynote”).

**17.) Štúdium nízkomolekulových \pi-konjugovaných derivátov tiofénu vhodných ako organické polovodiče**

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| **Zodpovedný riešiteľ:** | Kamil Tokár |
| **Trvanie projektu:** | 1.1.2021 / 31.12.2023 |
| **Evidenčné číslo projektu:** | 2/0055/21 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Fyzikálny ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA SAV: 661 € |

<u>*Dosiahnuté výsledky:*</u>

Počas prvého roka riešenia sme sa zaoberali návrhom syntetických postupov pre organické zlúčeniny na báze substituovaných Thiazolo[5,4-d]thiazolov (TzTz), ktoré sú vhodné ako aktívne jednotky v organickej fotovoltaike a optoelektronických materiáloch (OPV, OLED, OFET). Táto etapa projektu bola zameraná na štúdium reakčných procesov, ich optimalizáciu a evaluáciu chemicky syntetizovaných stabilných produktov typu thiazolo[5,4-d]thiazoly na laboratórnom pracovisku FPV UCM v Trnave. Namerané fyzikálno-chemické, elektronický EDOS (metóda ER-EIS, realizovaná vrámci FU SAV), pre furánovo-substituované thiazolo[5,4-d]thiazoly, a optické vlastnosti molekúl (UV-vis spektroskopia) boli verifikované hybridnými-DFT kvantovými simuláciami v lokalizovaných bázach. Stanovené parametre elektronického systému nasyntetizovaných substituovaných TzTz molekúl sa ukazujú byť vhodné z hľadiska integrácie v prvkoch a heteroštruktúrach organickej elektroniky a optoelektroniky.

Výsledky dosiahnuté vrámci projektovej činnosti boli zatiaľ odprezentované v 2 publikáciách (1 CC), 2 konferenčných príspevkoch (zahran., SR) a takisto v 2 študentských záverečných prácach (riešiteľ: FPV UCM, TT).

**18.) Výskum vybraných vlastností trvalo udržateľných izolačných materiálov s potenciálom využitia v drevostavbách** *(Research of selected properties of sustainable insulating materials with the potential for use in wooden buildings)*

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| **Zodpovedný riešiteľ:** | Viliam Vretenár |
| **Trvanie projektu:** | 1.1.2021 / 31.12.2023 |
| **Evidenčné číslo projektu:** | 1/0714/21 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Katedra fyziky, elektrotechniky a aplikovanej mechaniky, Drevárska fakulta, Technická univerzita, Zvolen |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA SAV: 3276 € |

*Dosiahnuté výsledky:*

V prvom roku riešenia stanovených úloh boli vybrané materiály z ktorých boli pripravené sady vzoriek na meranie tepelných vlastností pomocou impulznej metódy. Rôzne druhy drevených a kompozitných materiálov na báze dreva s rôznym typom pojiva boli vybrané v spolupráci so Zvolenskou technickou univerzitou. Ďalšie vzorky boli pripravené v spoluprici s School of Agricultural, Forestry and Environmental Sciences, University of Basilicata, Italy. Zatiaľ boli zmerané vlastnosti vzoriek cédrového dreva (It) a smreku (Sk). Na stanovenie termofyzikálnych parametrov bola použitá impulzná metóda s modelom pre vzorky v tvare kvádrov. Hodnoty stanovených parametrov zodpovedajú referenčným hodnotám v literatúre. Výsledky budú priebežne publikované.

**19.) Vysokovýkonná zakrivená röntgenová optika pripravená pokročilou technológiou nanoobrábania** *(High-performance curved X-ray optics prepared by advanced nanomachining technology)*

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| **Zodpovedný riešiteľ:** | Zdenko Zápražný |
| **Zodpovedný riešiteľ v organizácii SAV:** | Matej Jergel |
| **Trvanie projektu:** | 1.1.2021 / 31.12.2023 |
| **Evidenčné číslo projektu:** | 2/0041/21 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Elektrotechnický ústav SAV, v. v. i. |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | VEGA: 5164 € |

*Dosiahnuté výsledky:*

Metódou vysoko presného pokročilého nanoobrábania založeného na jednobodovom sústružení diamantovým hrotom (single-point diamond turning - SPDT) boli pripravené kremíkové membrány pre vybrané rtg a MEMS aplikácie. Ukázali sme, že táto metóda umožňuje prípravu membrán so zvlnením až do 500 nm na oblasti o priemere 7800 ?m. Na nedeštruktívne meranie distribúcie hrúbky takejto tenkej monokryštalickej Si membrány bola implementovaná rtg digitálna rádiografia s polovodičovým Gallium Arsenide (SI GaAs) pixel detektorom. Porovnávacie kontaktné meranie hrúbky s mikrometrickým meradlom potvrdili výsledky rádiografie.
Výstupy - 1 patent, 6 publikácii v časopisoch WOS, 1 príspevok v zborníku z medzinárodnej konferencie

**20.) Dizajn zložitých kvantových meraní (DESCOM)** *(Design of complex quantum measurements (DESCOM))*

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| **Zodpovedný riešiteľ:** | Mário Ziman |
| **Trvanie projektu:** | 1.1.2021 / 31.12.2024 |
| **Evidenčné číslo projektu:** | 2/0183/21 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Fyzikálny ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |

**Čerpané financie:** VEGA SAV: 23013 €

*Dosiahnuté výsledky:*

V súlade s plánom projektu bolo rozpracovaných viacero tém. Bolo pripravených 6 článkov, ktoré predpokladáme vyjdú v priebehu ďalšieho roka.

## Programy: APVV

**21.) Využitie nanomedicíny v boji proti rakovine pankreasu prostredníctvom zacielenia nádorovo-asociovanej karbonickej anhydrázy IX.** *(Nanomedical approach to fight pancreatic cancer via targeting tumor- associated carbonic anhydrase IX)*

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| **Zodpovedný riešiteľ:** | Lucia Csáderová |
| **Zodpovedný riešiteľ v organizácii SAV:** | Adriana Annušová |
| **Trvanie projektu:** | 1.7.2021 / 30.6.2025 |
| **Evidenčné číslo projektu:** | APVV-20-0485 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Biomedicínske centrum SAV, v. v. i. |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | APVV: 4752 € |

*Dosiahnuté výsledky:*

V rámci tohto projektu sme v roku 2021 zamerali na metódu prípravy nestechiometrických 2D MoOx nanovločiek rozmerov 210 nm, ktoré vykazujú efekt LSPR v NIR oblasti. Použili sme metódu exfoliácie v tekutej fáze kryštalického prášku MoO2. Pripravený nanomateriál sme študovali pomocou XRD, XPS, AFM, TEM a konfokálnej Ramanovej mikroskopie. Fototermálne vlastnosti sme overili pomocou UV-VIS-IR spektrofotometra a meraním fototermálnej konverzie. Po ožiarení MoOx nanovločiek laserom (808 nm, t.j. z okolia max absorbancie), sa teplota v okolí nanovločiek zvýšila až o 20°C. V ďalšom kroku sme sa zamerali na funkcionalizáciu MoOx špecifickou protilátkou pre cielenú identifikáciu a penetráciu rakovinových buniek. Protilátka M75 sa špeciálne pripája na antigény CAIX z povrchu rakovinových buniek (systém antigén protilátka). Funkcionalizáciu sme zrealizovali dvomi spôsobmi: cez biotin avidin biotin mostík, ktorá je špecifická nekovalentná väzba, a cez kovalentnú väzbu pomocou molekuly APPA (3-aminopropylphosphonic acid). Rôzne kroky funkcionalizácie sme sledovali pomocou XPS, XRD a konfokálnej Ramanovej mikroskopie.

**22.) Cielený dizajn hydrogélových mikrokapsúl pre imunitnú ochranu pankreatických ostrovčekov v liečbe cukrovky** *(Rational design of hydrogel microcapsules for immunoprotection of transplanted pancreatic islets in diabetes treatment)*

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| **Zodpovedný riešiteľ:** | Igor Lacík |
| **Zodpovedný riešiteľ v organizácii SAV:** | Peter Šiffalovič |
| **Trvanie projektu:** | 7.1.2019 / 30.6.2023 |
| **Evidenčné číslo projektu:** | APVV-18-0480 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Ústav polymérov SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | - |

*Dosiahnuté výsledky:*

Použili sme techniku povrchom zosilneného Ramanovho rozptylu (SERS) na detekciu fyziologicky relevantných koncentrácií inzulínu pomocou planárnych substrátov Ag-SERS a zároveň sme testovali ich použitie na monitorovanie difúzie inzulínu cez alginátové matrice. Použili sme substráty od spoločnosti SERSitive (Poľsko) pripravené elektrodepozíciou nanočastíc striebra na povrch skla z oxidu india a cínu (ITO). Substráty SERS sme inkubovali 24 hodín v 200 ?l inzulínu v koncentráciách od 10-3 do 10-12 M (mM-pM). Dosiahol sa detekčný limit približne 1 pM koncentrácie. Okrem toho sme potvrdili, že skrátenie času depozície je možné, ak sa použije striedavé elektrické pole s polaritou závislou od náboja analytu. Nakoniec sme skúmali signály inzulínu deponované na substrátoch ponorených do vody s cieľom simulovať dynamickú detekciu in situ inzulínu alginátovými matricami. Inzulínové píky sa identifikovali až po zvýšení výkonu z 5 na 30 mW. Ich intenzita sa však výrazne znížila v porovnaní so signálom z vysušeného substrátu. To kladie obmedzenia na dynamickú detekciu in situ inzulínu vo vode. Okrem toho, keďže inzulín je rozpustený vo vode, funkčné skupiny sú nabité v závislosti od pH. To následne ovplyvňuje ich schopnosť zostať spojené so substrátom a ovplyvňuje zosilnenie signálu. Naše výsledky boli prezentované na medzinárodnej konferencii NANOCON 2021.

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

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| **Zodpovedný riešiteľ:** | Naďa Mrkývková |
| **Trvanie projektu:** | 1.7.2018 / 30.6.2022 |
| **Evidenčné číslo projektu:** | APVV-17-0352 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Fyzikálny ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | APVV: 24928 € |

<u>*Dosiahnuté výsledky:*</u>

V roku 2021 sme sa v rámci projektu skúmali štruktúrne a morfologické usporiadanie malých organických molekúl na nízkodimenzionálnych substrátoch MoS2 pomocou. Konkrétne sme sa zamerali na defektov v orientácii molekúl. Analýza defektov zohráva kľúčovú úlohu pri vývoji a zlepšovaní zariadení založených na organických molekulárnych polovodičoch. Avšak kvôli slabým molekulárnym interakciám, ktoré chýbajú v anorganických polovodičoch, sú tenké organické vrstvy relevantné pre zariadenia náchylné na vznik defektov v molekulárnej orientácii, ktoré majú následne zásadný vplyv na výkon v optoelektronických aplikáciách. Na riešenie tohto problému sme rozšírili použiteľnosť skenovacej optickej mikroskopie s blízkym poľom (s-SNOM) a využívame svetlom indukovanú anizotropnú odozvu vibračných na odhalenie defektov v orientácii molekúl. Ukázali sme, že v prípade molekulových ostrovov so strmými kryštálovými hranami iba rozptýlená s-SNOM optickej amplitúdy možno využiť na opis molekulárnych usporiadanie spoľahlivo, zatiaľ čo fázová analýza vedie k artefaktom. Takáto s-SNOM analýza molekulárnych defektov môže byť univerzálne aplikovať na rôzne topografie, dokonca aj v nanorozmeroch.

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

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| **Zodpovedný riešiteľ:** | Ondrej Šauša |
| **Trvanie projektu:** | 1.7.2017 / 30.6.2021 |
| **Evidenčné číslo projektu:** | APVV-16-0369 |
| **Organizácia je koordinátorom projektu:** | áno |

**Koordinátor:** Fyzikálny ústav SAV
**Počet spoluriešiteľských inštitúcií:** 0
**Čerpané financie:** APVV: 15506 €

<u>*Dosiahnuté výsledky:*</u>

Boli dokončené štúdie na zvolenom modelovom polárnom aprotickom médiu acetonitrile, ACN v bulk a uväznených stavoch v matriciach SG100-SIL, SG100-C4 a MCM-41-SIL pomocou kombinácie ESR, PALS a DSC techník. Pokračovalo sa v systematickej práci na optimálnej chemickej modifikácii vybratej anorganickej matrice na báze SiO2, ktorú treba zavŕšiť doladenim geometrických parametrov distribúcie pórov v modifikovanej matrici. V prípade reťazcových médií sa vykonalo systematické BDS a DSC vyšetrovanie oligomérneho PDMS 1.2k v bulk a confined stave za použitia AAO matrice. Pritom sa dosiahli orignálne výsledky ohladne vplyvu priestorového obmedzenia na sklovitý prechod a nerovnovážne chovanie pod istou kritickou teplotou. Stanovenie frakcie kryštalickej fázy v zmrazených zmesiach vody s nízkym obsahom DMSO v prostredí lipozómov ukázalo, že aj nízke koncentrácie DMSO môžu vyvolať signifikantné zníženie množstva prítomného ľadu. Merania potvrdili kryštalizáciu vody pri pomalom ohreve aj v prítomnosti lipozómov, teplota kryštalizácie je výrazne znížená až k teplotám nižším ako 235 K a klesá s narastajúcou koncentráciou DMSO.

Publikácie v 7 CC časopisoch.

**25.) Anódy pre Li-iónové batérie na báze uhlík-kremíkových kompozitov** *(Carbon-silicon based composite anodes for Li-ion batteries)*

**Zodpovedný riešiteľ:** Peter Šiffalovič
**Trvanie projektu:** 1.7.2020 / 30.6.2024
**Evidenčné číslo projektu:** APVV-19-0461
**Organizácia je koordinátorom projektu:** nie
**Koordinátor:** Fyzikálny ústav SAV
**Počet spoluriešiteľských inštitúcií:** 0
**Čerpané financie:** APVV: 6551 €

<u>*Dosiahnuté výsledky:*</u>

V roku 2021 sme uskutočnili prvé testy lítium-iónových batérií s anódou na báze Si. Pre tento účel sme použili komerčne dostupné katódy s 20 % obsahom Si v anóde na báze grafitu. Výsledkom bola stabilná batéria s katódami NMC (lítium nikel mangán kobalt oxid). Z výsledkov výskumu publikovaných v roku 2021 navyše vyplynula možnosť použitia anódy s čistým Si. Otestovali sme tento prístup a vyrobili sme Li-iónovú batériu na báze kvapalného elektrolytu s monokryštalickou Si anódou a katódou zloženou z NMC materiálov. Prvé výsledky potvrdzujú spoľahlivú cyklickú prevádzku batérie. V tomto období sme tiež zostrojili batériový článok pre in-operando štúdium rozptylu röntgenového žiarenia. Táto cela umožní vykonávať časovo rozlíšené štúdie rozptylu röntgenového žiarenia na báze synchrotrónu v prierezovej geometrii.

**26.) Hybridné nízkorozmerné vrstevnaté materiály s novými funkciami** *( Hybrid Low Dimensional Layered Materials with new Functionalities)*

**Zodpovedný riešiteľ:** Peter Šiffalovič
**Trvanie projektu:** 1.7.2020 / 31.12.2023
**Evidenčné číslo projektu:** APVV-19-0465

**Organizácia je koordinátorom projektu:** nie
**Koordinátor:** Fyzikálny ústav SAV
**Počet spoluriešiteľských inštitúcií:** 0
**Čerpané financie:** APVV: 28520 €

*Dosiahnuté výsledky:*

Počas tohto projektového obdobia sme úspešne zvládli samousporiadanie MXenových flakov do Langmuirových vrstiev na vodnej subfáze a ich následný prenos na ľubovoľné substráty. Vrstvy MXénov sa skúmali pomocou mnohých povrchových charakterizačných techník vrátane SEM, XPR, XRD, Ramanovej spekroskopie, zobrazovacej elipsometrie a meraní kontaktného uhla. Výsledkom bolo overenie, že dokážeme vyrobiť vysokokvalitné MXénové vrstvy na veľkej ploche povrchu vhodné pre optoelektronické aplikácie. Okrem toho sme merali elektrickú vodivosť jednoduchých a dvojitých MXenových vrstiev, ktorá bola lepšia ako vodivosť grafénu.

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

**Zodpovedný riešiteľ:** Peter Šiffalovič
**Trvanie projektu:** 1.10.2018 / 30.9.2021
**Evidenčné číslo projektu:** SK-CN-RD-18-0006
**Organizácia je koordinátorom projektu:** áno
**Koordinátor:** Fyzikálny ústav SAV
**Počet spoluriešiteľských inštitúcií:** 0
**Čerpané financie:** APVV: 36345 €

*Dosiahnuté výsledky:*

Realizovaný bilaterálny projekt výrazne zlepšil súčasné výrobné postupy perovskitových tenkých vrstiev pre novú generáciu perovskitových solárnych článkov. Najmä in-situ technika rozptylu röntgenového žiarenia vyvinutá v rámci projektu v kombinácii s fotoluminiscenčnými meraniami otvorila novú cestu pre presné sledovanie rôznych fáz tvorby perovskitových filmov. To umožnilo výrobu vysokokvalitných perovskitových filmov z hľadiska vysokej kryštalinity, nízkej mozaicity a nízkej hustoty defektov. Metodika vyvinutá v rámci projektu umožnila výrobu vysokoúčinných 3D a 3D perovskitových solárnych článkov. Okrem toho projekt podnietil novú spoluprácu nad rámec pôvodnej bilaterálnej spolupráce, čo sa jasne odráža v publikovaných vedeckých prácach s vysokými impakt faktormi. Výsledkom realizácie tohto projektu boli aj minimálne tri ďalšie vedecké projekty podané do rôznych národných a medzinárodných projektových výziev

**28.) Metalické 2D dichalkogenidy prechodných kovov: príprava, štúdium vlastností a korelované stavy** *( Fabrication, physics and correlated states in metallic 2D transition metal dichalcogenides)*

**Zodpovedný riešiteľ:** Peter Šiffalovič
**Trvanie projektu:** 1.7.2020 / 30.6.2023
**Evidenčné číslo projektu:** APVV-19-0365
**Organizácia je koordinátorom projektu:** áno
**Koordinátor:** Fyzikálny ústav SAV

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| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | APVV: 20748 € |

<u>Dosiahnuté výsledky:</u>

V spolupráci s Elektrotechnickým ústavom SAV sme skúmali rast PtSe2 vrstiev na NbN vrstvách selenizáciou vopred nanesených 3 nm hrubých Pt vrstiev. Potvrdili sme, že parametre selenizácie zachovávajú chemickú a štrukturálnu integritu filmov PtSe2 a NbN. Okrem toho sa orientácia PtSe2 filmov dá regulovať zmenou rýchlosti prietoku dusíka cez CVD reakčnú komoru. Pomocou širokouhlého röntgenového rozptylu (GIWAXS) sme sledovali atomárnu orientáciu vrstiev PtSe2 a overili sme hraničnú rýchlosť prietoku potrebnú na dosiahnutie špecifického usporiadania atómových vrstiev. Výsledky boli publikované v odbornom časopise.

**29.) Pokročilé lítiové batérie s dlhou životnosťou** *(Towards lithium based batteries with improved lifetime)*

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| **Zodpovedný riešiteľ:** | Peter Šiffalovič |
| **Zodpovedný riešiteľ v organizácii SAV:** | Peter Šiffalovič |
| **Trvanie projektu:** | 1.7.2021 / 30.6.2025 |
| **Evidenčné číslo projektu:** | APVV-20-0111 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Centrum pre využitie pokročilých materiálov SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | APVV: 3739 € |

<u>Dosiahnuté výsledky:</u>

V prvom projektovom období sme sa zamerali na testovanie depozície atómovej vrstvy (ALD) na výrobu tenkých oxidových vrstiev na katódových vrstvách pre Li-ion batérie. Pre tento účel sme vybrali bežný katódový materiál na báze LFPO (lithium iron phosphorus oxide), ktorý je dobre preskúmaný a najvhodnejší ako testovací materiál. Na katóde LFPO sme pripravili ALD vrstvy rôznych hrúbok a zostavili sme Li-iónové batérie s Li-kovovými anódami, bežnými kvapalnými elektrolytmi a štandardnými separátormi zo sklenených vlákien. Prvé výsledky sú pozitívne a naznačujú zvýšenú cyklickú stabilitu v zmysle lepšieho zachovania kapacity náboja V blízkej budúcnosti chceme určiť najúčinnejšiu hrúbku vrstvy ALD a použiť pokročilé charakterizačné techniky na lepšie pochopenie jej úlohy pri transporte Li iónov a stabilizácii materiálu katódy.

**30.) AFM: Zobrazovanie, manipulácia, simulácia na atomárnej škále** *(AFM: Imaging, manipulation, atomic-scale simulation)*

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| **Zodpovedný riešiteľ:** | Ivan Štich |
| **Trvanie projektu:** | 1.7.2019 / 30.6.2022 |
| **Evidenčné číslo projektu:** | APVV-18-0211 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Fyzikálny ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 1 - Slovensko: 1 |
| **Čerpané financie:** | - |

Dosiahnuté výsledky:

Venovali sme sa analýzam atómov kyslíka deponovaným na povrchu TiO2(110), ktorý je modelovým katalytickým povrchom. Zistili sme, že kyslík sa adsorbuje v atomárnej a molekulárnej forme, pričom atomárny kyslík vytvára jednoatómové kvantové bodky (single-atom quantum dots, SAQD) a kyslík v molekulárnej forme vytvára tzv. reaktívne formy kyslíka (reactive oxygen species, ROS). Ukázali sme, že nábojové stavy ROS a SAQD je možné prepínať metódami Kelvinovej spektroskopie (KPFS). Navrhli sme novú experimentálnu metódu na meranie rýchlosti tunelovania elektrónov (rates) metódami KPFS, ktorá je o rád rýchlejšia ako alternatívne metódy, ktorá umožňuje merania aj pri vyšších teplotách.

Ukázali sme, že atómy kyslíka na rutilovom povrchu TiO2(110) vytvárajú ultra rýchly vodivostný prepínač ovládateľný hrotom AFM mikroskopu, ktorý je možné prepínať reverzibilne a opakovateľne. Atomárne spínače boli študované podstatne menej ako molekulárne, napriek tomu, že ich spínacie časy môžu byť rádovo kratšie ako u molekulových spínačov. Detailné simulácie ukázali, že sú možné viaceré spínacie mechanizmy, ktoré sú založené buď na tunelovaní elektrónu medzi hrotom AFM mikroskopu a O adatomom, alebo na hrotom indukovanom transfére elektrónu medzi O adatómom a polarónom.

Výsledky boli publikované v 4 CC publikáciách.

**31.) Nové nano / mikroštruktúrované kovové materiály pripravené nekonvenčnými spôsobmi spracovania** *(Novel nano / micro-structured metallic materials prepared by unconventional processing routes)*

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| **Zodpovedný riešiteľ:** | Peter Švec |
| **Trvanie projektu:** | 1.7.2020 / 30.6.2024 |
| **Evidenčné číslo projektu:** | APVV-19-0369 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Fyzikálny ústav SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | APVV: 31800 € |

Dosiahnuté výsledky:

Na objemových a rýchlochladených Heuslerovych zliatinach typu Ni-Fe-Ga sme porovnali magnetické vlastnosti z hľadiska prítomnosti modulácie martenzitickej štruktúry. Potvrdili sme existenciu a vznik martenzitu v oblasti paramagnetického stavu pre oba druhy vzoriek a interpretovali sme rozdiely vo vlastnostiach tejto štruktúry a teploty martenzitickej transformácie v závislosti od štruktúry prekurzora (JALCOM). V rýchlochladených Ni-Fe-Ga sme spravili neizotermickú kinetickú analyzu martenzitickej transformácie a spravili sme model tejto reakcie. Ukázali sme, že reakcia má autokatalytický charakter a jej aktivácia je významne ovplyvnená entropickým príspevkom k transformácii (Metals).

Výskyt Andersenovej lokalizácie v ikosahedrálnom polykryštalickom Al-Pd-Re sme analyzovali (Phys. Rev. B) pomocou XPS s vysokoenergetickými fotónmi, elektrického odporu a teórie funkcionálu hustoty (DFT). Na rozdiel od monokryštalického Al-Pd-Re má polykryštalická vzorka rádovo vyššiu hodnotu merného elektrického odporu a výrazne zvýšený teplotný koeficient elektrického odporu, naznačujúce Andersenovu lokalizáciu. Pomocou DFT sme ukázali, že príčiny lokalizácie elektrónov sú v 5d-Pd 4d hybridizácii atómu Re, ktorá sa objavuje vo zvýšenej miere práve v polykryštalickom stave v dôsledku rozdielom v lokálnom chemickom zložení. Práca predstavuje pozoruhodný súlad medzi experimentálnymi pozorovaniami a DFT a potvrdzuje vhodnosť využitia DFT pre riešenie podobných štruktúr.

Rovinné defekty {110} vznikajúce v 1/1 aproximante Cu-Al-Sc sme preskúmali elektrónovou mikroskopiou a 6-dimenzionálnou analýzou a následným štruktúrnym modelom. Validácia modelu sa vykonala porovnaním simulovaných a experimentálnych obrazov z HAADF-STEM a experimentálne sa potvrdila predpovedaná lokálna štruktúra rovinných defektov vrátane trojných bodov (Phil. Mag.)

Problematiku špeciálnych štruktúr a usporiadaní na mikroskopickej a nanometrovej úrovni, najmä kvázikryštálov, aproximantov kvázikryštálov, aperiodických systémov a ich analýzy kombináciou výpočtových metód a špičkových experimentálnych techník sme prezentovali v dvoch prednáškach a ako spoluautori pozvanej prednášky na konferencii IRN-Aperiodic 2021 a v hlavnej (keynote) prednáške na konferencii MRS Meeting 2021 (Pacifico Yokohama, Japan).

**32.) Nové zliatiny s viacerými základnými prvkami – dizajn, charakterizácia a vlastnosti** *(Novel multi-principal element alloys – design, characterization and properties)*

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| **Zodpovedný riešiteľ:** | Peter Švec |
| **Trvanie projektu:** | 1.7.2021 / 30.6.2025 |
| **Evidenčné číslo projektu:** | APVV-20-0124 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | MTF STU Trnava |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | APVV: 9375 € |

<u>*Dosiahnuté výsledky:*</u>

Spravili sme rozsiahlu termodynamickú a mikroštruktúrnu analyzu systému Al-Pd-Co s cieľom detailne zmapovať vybranú čast príslušného ternárneho fázového diagramu a skonštruovať modely kvázikryštalických aproximantov typu epsilon_n vznikajúcich v oblasti teplôt okolo 1035 oC. Niektoré z modifikácii tejto fázy boli pozorované a potvrdené po prvý raz metódami atomárne rozlíšenej elektrónovej mikroskopie a prvoprincípovými výpočtami (publikácia v JALCOM). Ukázali sme aj vplyv štruktúrnych defektov na dláždenie fázami epsilon_n a zhodnotili sme mieru preusporiadania atómov potrebných na transformáciu medzi jednotlivými typmi dláždenia. Podobným spôsobom sme korelovali katalytickú aktivitu intermetalických zlúčením RENi5-xAlx (RE = La, Er) a Mg2Ni obsahujúcich absorbovaný vodík. Navrhli sme nový aktivačný mechanizmus vysvetľujúci pozorované rozdiely v katalytickej aktivite skúmaných hydridov intermetalík v dôsledku zmeny elektrónových stavov v prítomnosti vodíka alebo etylénu na povrchu hydridu v kontraste s čistým povrchom intermetalika (J. Phys. Chem. C ).

Magnetické vlastnosti na nanometrovej škále sme preskúmali na systéme vysokoentropických zliatin FeCoNiAlMn s vzájomne sa meniacim pomerom Al a Mn, ktoré boli pripravené rýchlym ochladením taveniny a aj metódou 3D tlače. Stanovili sme oblasti fázovej koexistencie na nanometrovej úrovni a ukázali sme existenciu magnetických zŕn s nanometrovými rozmermi, ktoré determinujú makroskopické magnetické vlastnosti (IEEE Intl. Conf.).

**33.) Tribologické vlastnosti 2D materiálov a príbuzných nanokompozitov** *(Tribological properties of 2D materials and related nanocomposites)*

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| **Zodpovedný riešiteľ:** | Milan Ťapajna |
| **Zodpovedný riešiteľ v organizácii SAV:** | Peter Šiffalovič |
| **Trvanie projektu:** | 1.7.2018 / 30.6.2022 |
| **Evidenčné číslo projektu:** | APVV-17-0560 |

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| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Centrum pre využitie pokročilých materiálov SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | APVV: 14799 € |

*Dosiahnuté výsledky:*

Počas tohto projektového obdobia sme skúmali tribologické vlastnosti filmov pripravených samousporiadaním monovrstiev a dvojvrstiev MXenových flakov. Filmy boli pripravené ako Langmuirove filmy na povrchu vody a následne prenesené na Si substráty. Na štúdium topografie povrchu a trenia na mikroskopickej úrovni sa použila mikroskopia atómových síl v režime tappingu a mikroskopia laterálnych síl. Ako hlavný výsledok sa nám podarilo určiť koeficient trenia, ktorý je odlišný pre monovrstvy a dvojvrstvy.

**34.) Exotické kvantové stavy nízkorozmerných spinových a elektrónových systémov** *(Exotic quantum states of low-dimensional spin and electron systems)*

| | |
|---|---|
| **Zodpovedný riešiteľ:** | Hana Vargová |
| **Zodpovedný riešiteľ v organizácii SAV:** | Andrej Gendiar |
| **Trvanie projektu:** | 1.7.2017 / 30.6.2021 |
| **Evidenčné číslo projektu:** | APVV-16-0186 |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | Ústav experimentálnej fyziky SAV |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | APVV: 7440 € |

*Dosiahnuté výsledky:*

Tenzorová sieť je robustný matematický koncept, pomocou ktorého efektívne aproximujeme neznámy kvantový stav. Študovali sme dve úlohy. (1) Vyšetrovali sme špecifickú tenzorovú sieť spinového modelu s fraktálnou dimenziou d=1,792. Pomocou jedného parametra spojito meníme fraktál na homogénny systém s celočíselnou dimenziou d=2. V tejto úlohe sme analyzovali kritické vlastnosti J1-J2 modelu. Nami navrhnutá metodológia je stabilná a aplikovateľná na širokú triedu úloh s fraktálnymi štruktúrami. (2) Pomocou kvantovej entropie previazania sme skúmali frustrované spinové modely na hyperbolicky zakrivených mriežkach. Hľadali sme odpoveď na otázku, akú úlohu zohráva zmena polomeru krivosti na nespojité fázové prechody prvého rádu v q-stavovom spinovom modeli, kde q>5. Zistili sme, že hyperbolické zakrivenie spôsobuje zmenu nespojitého fázového prechod na spojitý. (3) Riešili sme q-stavový rotačný spinový model, v ktorom záporný polomer krivosti mení Kosterlitz-Thoulessov prechod nekonečného rádu na prechod druhého rádu, ktorý je závislý od okrajových podmienok. Zostavili sme fázové diagramy vzhľadom na meniaci sa pomer feromagnetickej interakcie medzi najbližšími susedmi a antiferomagnetickej interakcie medzi druhými najbližšími susedmi. Prvá úloha je v recenznom konaní časopisu Physical Review E (arXiv:2107.11406). Zvyšné dve úlohy budú publikované v roku 2022

**35.) Perspektívne elektrónové spinové systémy pre budúce kvantové technológie** *(Perspective* *electronic spin systems for future quantum technologies)*

**Zodpovedný riešiteľ:** Hana Vargová
**Zodpovedný riešiteľ v organizácii SAV:** Andrej Gendiar
**Trvanie projektu:** 1.7.2021 / 30.6.2025
**Evidenčné číslo projektu:** APVV-20-0150
**Organizácia je koordinátorom projektu:** nie
**Koordinátor:** Ústav experimentálnej fyziky SAV
**Počet spoluriešiteľských inštitúcií:** 0
**Čerpané financie:** APVV: 5970 €

*Dosiahnuté výsledky:*
Projekt bol v začiatočnej fáze riešenia.

**36.) Experimentálne štúdium deformácie a elektromagnetických vlastností atómových jadier** *(Experimental investigation of deformation and electromagnetic properties of atomic nuclei)*

**Zodpovedný riešiteľ:** Martin Venhart
**Trvanie projektu:** 1.7.2021 / 30.6.2025
**Evidenčné číslo projektu:** APVV-20-0532
**Organizácia je koordinátorom projektu:** áno
**Koordinátor:** Fyzikálny ústav SAV
**Počet spoluriešiteľských inštitúcií:** 0
**Čerpané financie:** APVV: 43681 €

*Dosiahnuté výsledky:*
Bola realizovaná prvá časť in-beam experimentov na Univerzite v Jyväskylä - štúdium neutrónovo-deficitných izotopov bizmutu. V oblasti prípravy druhého plánovaného experimentu v Jyväskylä boli navrhnuté kľúčové časti nového detektora. Pri analýze dát z predošlých experimentov sa jednoznačne ukázala nutnosť presného merania doby prieletu cez separátor. Bol objavený nový vzbudený stav v 179Au a charakterizovaný jeho rozpad.

**37.) Optimalizačné metódy pre kvantové technológie** *(Optimisation methods for quantum technologies)*

**Zodpovedný riešiteľ:** Mário Ziman
**Trvanie projektu:** 1.7.2019 / 30.6.2023
**Evidenčné číslo projektu:** APVV-18-0518
**Organizácia je koordinátorom projektu:** áno
**Koordinátor:** Fyzikálny ústav SAV
**Počet spoluriešiteľských inštitúcií:** 0
**Čerpané financie:** APVV: 47505 €

*Dosiahnuté výsledky:*
V rámci tohoto projektu sme publikovali 8 článkov, väčšinou zameraných na

termodynamické aspekty kvantové merania a teóriu kvantových inštrumentov.

## Programy: Iné projekty

### 38.) Výskum a vývoj vysoko efektívnych energetických zdrojov a technológií pre dopravné systémy s využitím princípov Industry 4.0

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|---|---|
| **Zodpovedný riešiteľ:** | Peter Švec |
| **Trvanie projektu:** | 1.12.2018 / 31.10.2021 |
| **Evidenčné číslo projektu:** | |
| **Organizácia je koordinátorom projektu:** | nie |
| **Koordinátor:** | EVPÚ, a. s. |
| **Počet spoluriešiteľských inštitúcií:** | 0 |
| **Čerpané financie:** | MŠVVŠ SR: 27500 € |

*Dosiahnuté výsledky:*

Doplnili sme štúdie z predošlého obdobia (publikácie v zamerané popri korelácii mikroštruktúry s magnetickými vlastnosťami aj na povrchy a na modifikáciu chemického zloženia rýchlochladených pások systému Fe-Sn-B (publikácia v JMMM 2021). V sérii troch prezentácií na konferencii APCOM 2021 (publikované v AIP Conf. Proc.) sme analyzovali mikroštruktúrne a technologické post-processing podmienky potrebné pre vysoké hodnoty nasýtenia, metodiku tepelného spracovania vrátane moderného práve vyvíjaného ekonomického ultrarýchleho žíhania na dosiahnutie nanokryštalickej štruktúry (minimová práca doktoranda). Zhodnotili sme aj možnosti využitia objemových vzoriek magnetických obvodov.

Pseudoobjemové vzorky v tvare dvoj a viacvrstiev kovových skiel boli využité na prípravu vysokocitlivých detektorov ultranízkych magnetických polí. Výsledky merania magnetického šumu v takýchto materiáloch boli kvantifikované v práci publikovanej v AIP Advances v spolupráci s Univ. Žilina a ÚEF SAV, kde sa magnetický Barkhausenov šum využil na vysvetlenie niektorých javov špecifických pre viacvrstvové magnetiká.

Obecnejšie bolo možné na základe dosiahnutých výsledkov konštatovať, že amorfné a nanokryštalické materiály pripravené rýchlym ochladením taveniny majú výborný potenciál pre priemyselné ekonomicky efektívne využitie aj napriek svojím menej vhodným mechanickým vlastnostiam (krehkosť po tepelnom spracovaní, ktorá je problematická pre výrobu väčích jadier a magnetických obvodov). Tento nedostatok je kompenzovaný širokou škálou úžitkových vlastností a veľkou univerzalitou použitia v rôznych oblastiach elektrotechniky a elektroniky, čoho dôkazom sú stale kladné trendy ich vývoja a výroby a využitia v kľúčových oblastiach Industry 4.0., ktoré sme kvantitatívne analyzovali vo výskumnej správe a v pozvanej prednáške na 25. konferencii slovenských fyzikov (Š. Luby).

## Programy: MoRePro

### 39.) Operačná kvantová termodynamika *(Operational quantum thermodynamics)*

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|---|---|
| **Zodpovedný riešiteľ:** | Mohammed Hamed Mohammady |
| **Trvanie projektu:** | 1.4.2020 / 31.3.2024 |
| **Evidenčné číslo projektu:** | 19MRP0027 |
| **Organizácia je koordinátorom projektu:** | áno |
| **Koordinátor:** | Fyzikálny ústav SAV |

**Počet spoluriešiteľských inštitúcií:** 0
**Čerpané financie:** P SAV: 2865 €

*Dosiahnuté výsledky:*
Projekt bol ukončený vo februári. V tomto roku vyšli 4 články.

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

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

ADCA01 ADAMCZEWSKI-MUSCH, J. - ARNOLD, O. - BEHNKE, C. - BELOUNNAS, A. - BELYAEV, A. - FILIP, Peter - HLAVÁČ, Stanislav. Correlated pion-proton pair emission off hot and dense QCD matter. In Physics Letters B : Nuclear, Elementary Particle and High-Energy Physics, 2021, vol. 819, 136421. (2020: 4.771 - IF, Q1 - JCR, 2.093 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0370-2693. Dostupné na: https://doi.org/10.1016/j.physletb.2021.136421

ADCA02 ALAM, Shahidul** - NÁDAŽDY, Vojtech - VÁRY, Tomáš - FRIEBE, Christian - MEITZNER, Rico - AHNER, Johannes - ANAND, Aman - KARUTHEDATH, Safakath - DE CASTRO, Catherine S. P. - GÖHLER, Clemens - DIETZ, Stefanie - CANN, Jonathan - KÄSTNER, Christian - KONKIN, Alexander - BEENKEN, Wichard - ANTON, Arthur Markus - ULBRICHT, Christoph - SPERLICH, Andreas - HAGER, Martin D. - RITTER, Uwe - KREMER, Friedrich - BRÜGGEMANN, Oliver - SCHUBERT, Ulrich S. - EGBE, Daniel A. M. - WELCH, Gregory C. - DYAKONOV, Vladimir - DEIBEL, Carsten - LAQUAI, Frédéric - HOPPE, Harald**. Uphill and downhill charge generation from charge transfer to charge separated states in organic solar cells. In Journal of Materials Chemistry C, 2021, vol. 9, no. 40, p. 14463-14489. (2020: 7.393 - IF, Q1 - JCR, 1.899 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2050-7526. Dostupné na: https://doi.org/10.1039/d1tc02351a

ADCA03 ANNUŠOVÁ, Adriana** - BODIK, Michal - HAGARA, Jakub - KOTLÁR, Mário - HALAHOVETS, Yuriy - MIČUŠÍK, Matej - CHLPÍK, Juraj - CIRÁK, Július - HOFBAUEROVÁ, Monika, Benkovičová - JERGEL, Matej - MAJKOVÁ, Eva - ŠIFFALOVIČ, Peter. On the extraction of MoOx photothermally active nanoparticles by gel filtration from a byproduct of few-layer MoS2 exfoliation. In Nanotechnology, 2021, vol. 32, no. 4, 045708. (2020: 3.874 - IF, Q2 - JCR, 0.926 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0957-4484. Dostupné na: https://doi.org/10.1088/1361-6528/abc035

ADCA04 AURANEN, K.** - UUSITALO, J. - BADRAN, H. - GRAHN, T. - GREENLEES, P. T. - HERZÁŇ, Andrej - JAKOBSSON, U. - JULIN, R. - JUUTINEN, S. - KONKI, J. - LEINO, M. - LEPPÄNEN, A.-P. - O'NEILL, G. - PAKARINEN, J. - PAPADAKIS, P. - PARTANEN, J. - PEURA, P. - RAHKILA, P. - RUOTSALAINEN, P. - SANDZELIUS, M. - SARÉN, J. - SCHOLEY, C. - SINCLAIR, L. - SORRI, J. - STOLZE, S. - VOSS, A. Isomeric 13(+)/2 (nu i(13/2)(-1)) state in( 211)Th. In Physical Review C, 2021, vol. 103, no. 5, 054323. (2020: 3.296 - IF, Q2 - JCR, 1.679 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 2469-9985. Dostupné na: https://doi.org/10.1103/PhysRevC.103.054323

ADCA05 BALOG, Martin** - KRÍŽIK, Peter - ŠVEC, Peter Jr. - OROVČÍK, Ľubomír. Industrially fabricated in-situ Al-AlN metal matrix composites (part A): Processing, thermal stability, and microstructure. In Journal of Alloys and Compounds, 2021, vol. 883, no. 160858. (2020: 5.316 - IF, Q1 - JCR, 1.112 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0925-8388. Dostupné na: https://doi.org/10.1016/j.jallcom.2021.160858 (VEGA č. 2/0143/20 : Štúdium creepových vlastnosti PM Al–Al2O3 kompozitov pomocou small punch testing metódy. ITMS2014+: 313021T081 : Vybudovanie Centra pre využitie pokročilých materiálov Slovenskej akadémie vied)

ADCA06 BALOGH, Matúš** - HERZÁŇ, Andrej - MATOUŠEK, Vladislav - SEDLÁK, Michal - BEŇO, M. - DOBROVODSKÝ, J. - KANTAY, Gulnur - KONOPKA, Pavol - NOGA, P. - REPKO, Anton - ŠPAČEK, Andrej - VAŇA, D. - VENHART, Martin - VIELHAUER, Sebastian. Automated method for offline correction of spectrometry data affected by time instability. In Nuclear Instruments and Methods in Physics Research A. Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, vol. 1004, 165368. (2020: 1.455 - IF, Q2 - JCR, 0.747 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0168-9002. Dostupné na: https://doi.org/10.1016/j.nima.2021.165368

ADCA07 BARTOŠ, Josef** - ŠAUŠA, Ondrej - VYROUBALOVÁ, Michaela - MAŤKO, Igor - ŠVAJDLENKOVÁ, Helena. Confined effects on structural isomers in the MCM-41-SIL matrix as seen by extrinsic probes via PALS and ESR: n-butanol vs tert-butanol. In Journal of Physical Chemistry C, 2021, vol. 125, no. 29, p. 15796-158111. (2020: 4.126 - IF, Q2 - JCR, 1.401 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1932-7447. Dostupné na: https://doi.org/10.1021/acs.jpcc.1c01951

ADCA08 BÄSSLER, Heinz - KROH, Daniel - SCHAUER, Franz - NÁDAŽDY, Vojtech - KÖHLER, Anna**. Mapping the Density of States Distribution of Organic Semiconductors by Employing Energy Resolved - Electrochemical Impedance Spectroscopy. In Advanced Functional Materials, 2021, vol. 31, no. 9, 2007738. (2020: 18.808 - IF, Q1 - JCR, 6.069 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1616-301X. Dostupné na: https://doi.org/10.1002/adfm.202007738

ADCA09 BODIK, Michal** - SOJKOVÁ, Michaela - HULMAN, Martin - ŤAPAJNA, Milan - TRUCHLY, Martin - VÉGSO, Karol - JERGEL, Matej - MAJKOVÁ, Eva - ŠPANKOVÁ, Marianna** - ŠIFFALOVIČ, Peter. Friction control by engineering the crystallographic orientation of the lubricating few-layer MoS2 films. In Applied Surface Science, 2021, vol. 540, no. 1, 148328. (2020: 6.707 - IF, Q1 - JCR, 1.295 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0169-4332. Dostupné na: https://doi.org/10.1016/j.apsusc.2020.148328

ADCA10 BODIK, Michal** - KRAJČÍKOVÁ, Daniela - HAGARA, Jakub - MAJKOVÁ, Eva - BARÁK, Imrich** - ŠIFFALOVIČ, Peter. Diffraction pattern of Bacillus subtilis CotY spore coat protein 2D crystals. In Colloids and Surfaces B - Biointerfaces, 2021, vol. 197, 111425. (2020: 5.268 - IF, Q1 - JCR, 0.939 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0927-7765. Dostupné na: https://doi.org/10.1016/j.colsurfb.2020.111425

ADCA11 BOHÁČIK, Juraj** - PREŠNAJDER, P.** - AUGUSTÍN, P.**. Time-dependent propagator for an-harmonic oscillator with quartic term in potential. In Journal of Mathematical Physics, 2021, vol. 62, no. 2, art. no. 023501. (2020: 1.488 - IF, Q3 - JCR, 0.708 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0022-2488. Dostupné na: https://doi.org/10.1063/5.0018545

ADCA12 BRUNOVÁ, Alica - VÉGSO, Karol - NÁDAŽDY, Vojtech - NÁDAŽDY, Peter - SUBAIR, Riyas - JERGEL, Matej - MAJKOVÁ, Eva - PANDIT, Pallavi - ROTH, Stephan V. - KRASNANSKY, Alexander - HINDERHOFER, Alexander - SCHREIBER, Frank - TIAN, Jianjun - ŠIFFALOVIČ, Peter**. Structural and trap-state density enhancement in flash-infrared annealed Perovskite layers. In Advanced Materials Interfaces, 2021, vol. 8, no. 14, 2100355. (2020: 6.147 - IF, Q2 - JCR, 1.671 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2196-7350. Dostupné na: https://doi.org/10.1002/admi.202100355

ADCA13 BUTVINOVÁ, Beata** - ŠVEC, Peter - JANOTOVÁ, Irena - FOS, Alen - MAŤKO, Igor - JANIČKOVIČ, Dušan. Magnetic and structural properties of (Fe-Co)83(Sn-P)5B12 alloys with high saturation. In Journal of Magnetism and Magnetic Materials, 2021, vol. 535, 168069. (2020: 2.993 - IF, Q2 - JCR, 0.665 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0304-8853. Dostupné na: https://doi.org/10.1016/j.jmmm.2021.168069

ADCA14 BUTVINOVÁ, Beata** - BUTVIN, Pavol - MAŤKO, Igor - ŠVEC, Peter - KADLEČÍKOVÁ, Magdaléna. Impact of surfaces on the magnetic properties of Fe-based nanocrystalline ribbons. In Applied Surface Science, 2021, vol. 538, art. no. 147942. (2020: 6.707 - IF, Q1 - JCR, 1.295 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0169-4332. Dostupné na: https://doi.org/10.1016/j.apsusc.2020.147942

ADCA15 CAMENZIND, Leon C.* - SVAB, Simon* - STAŇO, Peter - YU, Liuqi - ZIMMERMAN, Jeramy D. - GOSSARD, Arthur C. - LOSS, Daniel - ZUMBÜHL, Dominik M.**. Isotropic and anisotropic g-factor corrections in GaAs quantum dots. In Physical Review Letters, 2021, vol. 127, no. 5, 057701. (2020: 9.161 - IF, Q1 - JCR, 3.688 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0031-9007. Dostupné na: https://doi.org/10.1103/PhysRevLett.127.057701

ADCA16 DERZSI, Mariana** - UHLIAR, Matej - TOKÁR, Kamil. Ag6Cl4: the first silver chloride with rare Ag-6 clusters from an ab initio study. In Chemical Communication, 2021, vol. 57, no.79, p. 10186-10189. (2020: 6.222 - IF, Q1 - JCR, 1.837 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1359-7345. Dostupné na: https://doi.org/10.1039/d1cc03426j

ADCA17 DODA, Mirdit - HUBER, Marcus - MURTA, Gláucia - PIVOLUSKA, Matej - PLESCH, Martin** - VLACHOU, Chrysoula. Quantum Key Distribution Overcoming Extreme Noise: Simultaneous Subspace Coding Using High-Dimensional Entanglement. In Physical Review Applied, 2021, vol. 15, no. 3, art. no. 034003. (2020: 4.985 - IF, Q1 - JCR, 1.883 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2331-7019. Dostupné na: https://doi.org/10.1103/PhysRevApplied.15.034003

ADCA18 DODA, Mirdit - PIVOLUSKA, Matej - PLESCH, Martin. Choice of mutually unbiased bases and outcome labeling affecting measurement outcome secrecy. In Physical Review A, 2021, vol. 103, no. 3, art. no. 032206. (2020: 3.140 - IF, Q2 - JCR, 1.391 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1050-2947. Dostupné na: https://doi.org/10.1103/PhysRevA.103.032206

ADCA19 DUBNIČKOVÁ, Anna Z. - DUBNIČKA, Stanislav**. Prediction of neutron electromagnetic form factors behaviors just by the proton electromagnetic form factors data. In European Physical Journal A, 2021, vol. 57, no. 11, 307. (2020: 3.043 - IF, Q2 - JCR, 1.232 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 1434-6001. Dostupné na: https://doi.org/10.1140/epja/s10050-021-00612-7

ADCA20 EFTEKHARI, Aziz - ARJMAND, Allahveirdy* - ASHEGHVATAN, Ayyub* - ŠVAJDLENKOVÁ, Helena - ŠAUŠA, Ondrej - ABIYEV, Huseyn - AHMADIAN, Elham** - SMUTOK, Oleh - KHALILOV, Rovshan - KAVETSKYY, Taras** - CUCCHIARINI, Magali**. The potential application of magnetic nanoparticles for liver fibrosis theranostics. In Frontiers in Chemistry, 2021, vol. 9, art. no. 674786, [15] p. (2020: 5.221 - IF, Q2 - JCR, 1.027 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2296-2646. Dostupné na: https://doi.org/10.3389/fchem.2021.674786

ADCA21 FERIANCOVÁ, Lucia - CIGÁŇ, Marek - GMUCOVÁ, Katarína - KOŽÍŠEK, Jozef - NÁDAŽDY, Vojtech - PUTALA, Martin**. Effect of electron-withdrawing groups on molecular properties of naphthyl and anthryl bithiophenes as potential n-type semiconductors. In New Journal of Chemistry, 2021, vol. 45, no. 22, p. 9794-9804. (2020: 3.591 - IF, Q2 - JCR, 0.693 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1144-0546. Dostupné na: https://doi.org/10.1039/d1nj01100f

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

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AFC08 PLEVACHUK, Yuriy - YAKYMOVYCH, Andriy - TKACH, Olha - ŠVEC, Peter - ŠVEC, Peter Jr. - OROVČÍK, Ľubomír. Nanocomposite solders: an influence of un-coated and Au-coated carbon nanotubes on morphology of Cu/Sn-3.0Ag-0.5Cu/Cu solder joints. In 2019 IEEE 2nd Ukraine Conference on Electrical and Computer Engineering (UKRCON-2019) : Conference Proceedings. - Massachusetts, USA : IEEE, 2019, p. 722-725. ISBN 978-1-7281-3882-4. Dostupné na: https://doi.org/10.1109/UKRCON.2019.8879891

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*1. [1.1] AFDZALUDDIN, Atiqah Mohd - ABU BAKAR, Maria. Effect of Coating Element on Joining Stability of Sn-0.3Ag-0.7Cu Solder Joint due to Aging Test. In SAINS MALAYSIANA. ISSN 0126-6039, 2020, vol. 49, no. 12, pp. 3029-3036., Registrované v: WOS*

**FAI Zostavovateľské práce knižného charakteru (bibliografie, encyklopédie, katalógy,**

**slovníky, zborníky, atlasy ...)**

FAI01 Slovenské vesmírne odysey : (spomienky a prognózy pri príležitosti 20. výročia slovenského letu na stanicu Mir). Eds. Štefan Luby, Branislav Peťko ; rec. Ján Slezák, Ján Svoreň. Bratislava : Veda, 2020. 167 s. ISBN 978-80-224-1803-4

Citácie:

*1. [6] BUCHA, T. Slovenské vesmírne odysey: recenzia. In Quark : magazín o vede a technike, 2020, roč. XXVI, č. 11, s. 56. ISSN 1335-4000.*

*2. [6] SVOREŇ, J. Slovenské vesmírne odysey : recenzia. In Kozmos, 2020, roč. 51, č. 4. ISSN 0323-049X.*

***Príloha D***

**Údaje o pedagogickej činnosti organizácie**

Semestrálne prednášky:

prof. Ing. Štefan Luby, DrSc.
Názov semestr. predmetu: Technika budúcnosti
Počet hodín za semester: 2
Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Univerzita III. veku

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

Doc. Mgr. Mário Ziman, PhD.
Názov semestr. predmetu: Konceptuálne otázky kvantového spracovania informácie
Počet hodín za semester: 26
Názov katedry a vysokej školy: Masarykova univerzita Brno, ČR, Fakulta Informatiky

Doc. Mgr. Mário Ziman, PhD.
Názov semestr. predmetu: Kvantová optika, nanoelektronika a informatika
Počet hodín za semester: 26
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, FMFI

Doc. Mgr. Mário Ziman, PhD.
Názov semestr. predmetu: Kvantové počítanie
Počet hodín za semester: 24
Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, FIIT

Doc. Mgr. Mário Ziman, PhD.
Názov semestr. predmetu: Úvod do kvantovej teórie informácie
Počet hodín za semester: 26
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, FMFI

Doc. Mgr. Mário Ziman, PhD.
Názov semestr. predmetu: Úvod do programovania kvantových počítačov
Počet hodín za semester: 26
Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, FEI

Semestrálne cvičenia:

RNDr. Matej Pivoluska, PhD.
Názov semestr. predmetu: IV054
Počet hodín za semester: 54
Názov katedry a vysokej školy: Masarykova univerzita Brno, ČR, Fakulta Informatiky

RNDr. Matej Pivoluska, PhD.
Názov semestr. predmetu: Randomized algorithms
Počet hodín za semester: 28

Názov katedry a vysokej školy: Masarykova univerzita Brno, ČR, fakulta informatiky

Semináre:

Terénne cvičenia:

Individuálne prednášky:

*Príloha E*

**Medzinárodná mobilita organizácie**

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

| Krajina | D r u h d o h o d y | | | | | |
|---|---|---|---|---|---|---|
| | MAD, KD, VTS | | Medziústavná | | Ostatné | |
| | Meno pracovníka | Počet dní | Meno pracovníka | Počet dní | Meno pracovníka | Počet dní |
| Belgicko | Natalia Salomé Móller | 8 | | | | |
| Česko | | | | | Peter Šiffalovič | 1 |
| Fínsko | | | | | Andrej Herzáň | 17 |
| | | | | | Pavol Konopka | 17 |
| | | | | | Vladislav Matoušek | 9 |
| | | | | | Matúš Sedlák | 17 |
| | | | | | Andrej Špaček | 17 |
| Francúzsko | Vladimír Held | 8 | | | | |
| | Naďa Mrkývková | 8 | | | | |
| | Peter Nádaždy | 8 | | | | |
| | Karol Végsö | 8 | | | | |
| Maďarsko | | | | | Martin Plesch | 3 |
| Nemecko | Vladimír Held | 1 | | | | |
| | Vladimír Held | 1 | | | | |
| | Vladimír Held | 1 | | | | |
| | Vladimír Held | 8 | | | | |
| | Naďa Mrkývková | 1 | | | | |
| | Naďa Mrkývková | 1 | | | | |
| | Naďa Mrkývková | 1 | | | | |
| | Naďa Mrkývková | 8 | | | | |
| | Peter Nádaždy | 1 | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | Peter Nádaždy | 1 | | | | |
| | Peter Nádaždy | 8 | | | | |
| | Peter Nádaždy | 1 | | | | |
| | Karol Végsö | 8 | | | | |
| Poľsko | Natalia Salomé Móller | 11 | | | | |
| | Natalia Salomé Móller | 7 | | | | |
| Spojené arabské emiráty | | | | | Mário Ziman | 7 |
| Švajčiarsko | | | | | Monika Bírová | 8 |
| | | | | | Vladimír Held | 4 |
| | | | | | Andrej Špaček | 8 |
| Taliansko | | | | | Chiranjib Mukhopadhyay | 10 |
| | | | | | Michal Sedlák | 10 |
| **Počet vyslaní spolu** | **20** | **99** | | | **13** | **128** |

**(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** |
| Fínsko | | | | | Leevi Leppäjärvi | 23 |
| Irán | | | | | Hazhir Dolatkhah | 19 |
| Mexiko | | | | | David Davalos Gonzales | 23 |
| | | | | | Ricardo Rivera | 13 |
| Ukrajina | | | | | Dr. Taras Kavetskyy | 89 |
| | | | | | Khrystyna Zubrytska | 89 |
| | | | | | Mariana Kravtsiv | 31 |
| **Počet** | | | | | **7** | **287** |

| | | | | | | |
|---|---|---|---|---|---|---|
| **prijatí spolu** | | | | | | |

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

| **Krajina** | **Názov konferencie** | **Meno pracovníka** | **Počet dní** |
|---|---|---|---|
| Česko | IS2 | Vladimír Bužek | 5 |
| | THERMOPHYSICS 2021 | Vlastimil Boháč | 3 |
| Francúzsko | IRN-APERIODIC | Marek Mihalkovič | 7 |
| Rusko | Advances in Quantum Field Theory | Lubomir Martinovič | 4 |
| **Spolu** | **4** | **4** | **19** |

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

Skratky použité v tabuľke C:

Advances in Quantum Field Theory - Advances in Quantum Field Theory
IRN-APERIODIC - International Research Network
IS2 - INFORMATION SECURITY SUMMIT
THERMOPHYSICS 2021 - 26th Meeting of the Thermophysical Society and Working Group of the Slovak Physical Society

*Príloha F*

**Vedecko-popularizačná činnosť pracovníkov organizácie SAV**

| Meno | Spoluautori | Typ[1] | Názov | Miesto zverejnenia | Dátum alebo počet za rok |
|---|---|---|---|---|---|
| Mgr. Andrej Gendiar, PhD. | | PB | Dni Maximiliána Hella | https://x.facebook.com/piar.gtn.sk/photos/a.4446736582072770/4472348619511566/?type=3&source=48 | 23.10.2021 |
| Mgr. Andrej Gendiar, PhD. | | PB | Vedecký brloh - O kvantovej fyzike s Andrejom Gendiarom | https://www.vedeckybrloh.sk/?p=574 | 24.6.2021 |
| prof. Ing. Štefan Luby, DrSc. | | TL | Les zachytí vodu, univerzity musia zachytiť mladých | Pravda víkend | 17.5.2021 |
| prof. Ing. Štefan Luby, DrSc. | | TL | Pandémia ako ju nepoznáme alebo COVID očami fyziky | aktuality.sk | 3.5.2021 |
| Doc. RNDr. Martin Plesch, PhD. | | IN | Fyzika na doma 1 | https://www.youtube.com/watch?v=fdEckEA_jUI | 7.2.2021 |
| Doc. RNDr. Martin Plesch, PhD. | | IN | Fyzika na doma 2 | https://www.youtube.com/watch?v=Yd5L7Vxv5B4 | 14.2.2021 |
| Doc. RNDr. Martin Plesch, PhD. | | RO | Oceánske odpadky ožívajú | https://slovensko.rtvs.sk/rubriky/277396/oceanske-odpadky-ozivaju | 15.12.2021 |
| Doc. RNDr. Martin Plesch, PhD. | | RO | Orangutani to s mláďatmi vedia | https://slovensko.rtvs.sk/rubriky/278210/oragnutani-to-s-mladatmi-vedia | 23.12.2021 |
| Doc. RNDr. Martin Plesch, PhD. | | IN | Rumburakov neviditeľný plášť | https://www.youtube.com/watch?v=nqNvspOJL1Y | 29.3.2021 |
| Mgr. Martin Venhart, PhD. | | IN | K Nobelovej cene mali blízko Ilkovič aj Hviezdoslav. Pred vojnou ju dostal rodák z Bratislavy, ktorý sa neskôr pridal k nacistom | Denník N | 8.10.2021 |
| Mgr. Martin Venhart, PhD. | | PB | Kde sa vzali chemické prvky vo vesmíre | Škola pre mimoriadne nadané deti a gymnázium, Bratislava - osobná prednáška | 4.11.2021 |
| Mgr. Martin Venhart, PhD. | | IN | O atómových jadrách máme zatiaľ málo presných dát | Podcast SAV | 17.9.2021 |
| Mgr. Martin Venhart, PhD. | | TV | Pumpa, 11. epizóda | RTVS | 5.12.2021 |
| Mgr. Martin Venhart, PhD. | | PB | Sólo pre technécium | Gymnázium Cyrila Daxnera, Vranov nad Topľou - online prednáška | 23.4.2021 |
| Mgr. Martin Venhart, PhD. | | PB | Sólo pre technécium | ZŠ Ostredková, Bratislava, online | 14.4.2021 |

| | | | | | |
|---|---|---|---|---|---|
| | | | | prednáška | |
| Mgr. Martin Venhart, PhD. | | RO | VEDA NA DVE MINÚTY \| Zamrznutý "vejár" z horúcej vody v priebehu sekundy. Čo a ako to? | Fun radio | 28.1.2021 |
| Mgr. Erik Bartoš, PhD. | | PB | DOD 2021 | www.fu.sav.sk/dod | 3 |
| Mgr. Andrej Gendiar, PhD. | | IN | DOD 2021 | www.fu.sav.sk/dod | 1 |
| Mgr. Denisa Lampášová | | PB | DOD 2021 | www.fu.sav.sk/dod | 1 |
| Dr.Rer.Nat. Ing. Mgr. Andrej Liptaj, PhD. | | PB | DOD 2021 | www.fu.sav.sk/dod | 7 |
| Dr.Rer.Nat. Ing. Mgr. Andrej Liptaj, PhD. | Denisa Lampášová | iné | Organizácia (týž)dňa otvorených dverí na FÚ SAV | Zoom, Youtube | 1 |
| prof. Ing. Štefan Luby, DrSc. | | TL | Algoritmy vedeckého humoru | Literárny týždenník Vo. 34, č. 25 - 26, s. 9 | 1 |
| prof. Ing. Štefan Luby, DrSc. | | TL | Divotvorný grafén | Quark, Vo. 27, č. 2, 2021, s. 30 - 31 | 1 |
| prof. Ing. Štefan Luby, DrSc. | | TL | Humor vo vede | Správy SAV, Vo. 57, č. 3, 2021, s. 24 - 26. | 1 |
| prof. Ing. Štefan Luby, DrSc. | | TL | Laureáti NC slovenského pôvodu | Literárny týždenník roč. 34, 2021, č. 13 - 14, s. 4-5. | 1 |
| prof. Ing. Štefan Luby, DrSc. | | TL | Nobelove ceny a Slovensko | Slovenské pohľady Vo. 141, č. 1, 2021, s. 79 - 86 | 1 |
| Mgr. Daniel Nagaj, PhD. | | PB | DOD 2021 | www.fu.sav.sk/dod | 1 |
| Doc. RNDr. Martin Plesch, PhD. | | PB | DOD 2021 | na škole, www.fu.sav.sk/dod | 3 |
| Doc. RNDr. Martin Plesch, PhD. | | PB | DOD 2021 | www.fu.sav.sk/dod | 4 |
| Doc. RNDr. Martin Plesch, PhD. | František Kundracik a.i. | iné | Turnaj mladých fyzikov | www.tmfsr.sk | 5 |
| Doc. RNDr. Martin Plesch, PhD. | Martin Chudjak, František Kundracik a.i. | iné | Olympiáda mladých vedcov | www.ijso.sk | 3 |
| Mgr. Martin Venhart, PhD. | | PB | DOD 2021 - Sólo pre technécium | www.fu.sav.sk/dod | 2 |
| Doc. Mgr. Mário Ziman, PhD. | | PB | DOD 2021 | www.fu.sav.sk/dod | 3 |

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