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BSU

Improvement of master-level education in the field of physical sciences in Belarusian universities

Participation of RSI for Nuclear Problems of BSU in the Physics project

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Improvement of master-level education in the field of physical sciences in Belarusian universities

Research Scientific Institute for Nuclear Problems of Belarusian State University (RSI NP BSU)

Participants:

1. Dr.-habil. Fedotova Julia – Deputy of Director
2. Dr. Kasyuk Julia - Senior Reseacher
3. Dr. Fedotov Alexander – Chief Reseacher
4. Dr. Alexey Maximenko – Young Research Fellow

Participation of RSI NP of BSU in the Physics project

RSI NP BSU team worked in close collaboration with BSU and RTU teams and also with associated partners (RANI and BPS) in:

- Reviewing of new Curricula "FNM" for the educational system (4+2);
- Reviewing of study programs for 3 courses for specialty "FNM";
- Development of 3 Chapters in e-Books "Functional Nanomaterials" and "Applied Physics"
- Trainings in RTU (as teachers) and CU (as trainee)
- Advising by 2 students and 1 master-level student of Faculty of Physics of BSU

Participation of RSI NP of BSU in the Physics project

Internet addresses of the developed Chapters:

https://dl.bsu.by/pluginfile.php/99857/mod_resource/content/2/09_versie_applied_physics_30_aug_2017.pdf **(Ch. 4.4. Magnetometry, Ch. 4.6. Mossbauer Spectroscopy)**

https://dl.bsu.by/pluginfile.php/98980/mod_resource/content/1/Chapter%209%20Magnetotransport%20and%20Magnetism%20in%20Nanocomposite%20and%20Multilayered%20Materials.pdf
(Chapter 9. Magnetotransport and Magnetism in Nanocomposite and Multilayered Materials);

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Reviewing of study programs for 2 courses for specialty “FNM”:

- **Nanomaterials in Power**
- **Spintronics**

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Paricipation in trainings:

1. Lectures in RTU (as teachers):

- Granulat nanocomposites metal-semiconductor-insulator (A. Fedotov)
- Magnetism od nanostructured composites and multilayerd materials (J. Fedotova, J. Kasyuk);

2. Training in CU (as trainee): J. Kasyuk

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Advising by students of Faculty of Physics of BSU:

1. Course work "Impedance spectroscopy of nanocomposites $(FeCoZr)_x(SiO_2)_{1-x}$" (J. Fedotova)
2. Course work "Influence of cobalt nanoparticles on the parameters of weak localization in bilayer graphene" (V. Bayev)
3. Master-level course work "Investigation of electrical properties of ZnO-based ceramics doped with iron" (A. Fedotov)
4. Maser Thesis "Effect of doping by magnetic and nonmagnetic impurities on the structure and properties of nanoceramics based on ZnO" (A. Fedotov)
5. Course work "Influence of defects on charge carriers transport in graphene" (A. Fedotov)

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Thank you for attention

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