

Visiting Professor – Prof. Valeriya Rodionova

Lecture:

" **Magnetic phenomena and magnetic materials: practical applications** " (30 h)

16.05.19 – 12.06.19

Detail programme along with schedules of the lectures and consulting hours can be found at <https://ftims.pg.edu.pl/goscie-zagraniczni>

Faculty of Applied Physics and Mathematics invites all Students, Staff and Guests to the classes and consultations with our Visiting Professor - Valeriya Rodionova from the Immanuel Kant Baltic Federal University, Kaliningrad, Russia. Classes of Prof. Rodionova are mainly devoted to the PhD, first and second cycle students.

Contact: dziekanat@mif.pg.gda.pl

Short BIO (facts & figures) of Prof. Valeriya Rodionova

2007 – 2010 – PhD student, Magnetism Division, Faculty of Physics, Lomonosov Moscow State University (Moscow, Russia);

2010 – PhD degree in Lomonosov Moscow State University (Moscow, Russia);

2012 – PhD degree homologation in University of Basque Country (Bilbao, Spain);

2013 – to date Head of Laboratory of Novel Magnetic Materials, Science and Technology Park “Factory”, Institute of Physics, Mathematics and Information Technology, Immanuel Kant Baltic Federal University, Kaliningrad, Russia;

2014 – to date Associate professor (part time), Institute of Physics, Mathematics and Information Technology (till Sept 2016 (former name) – Physics Department, Institute of Physics & Technology), Immanuel Kant Baltic Federal University, Kaliningrad, Russia.

scintificometric parameters:

on the base of WoSc, September 2018

h-index – 12; Number of articles – 75, Book chapter – 1,

Citations – 312 (without self-citation – 248)

on the base of Scopus, September 2018

h-index – 12; Number of articles – 83, Book chapter – 1,

Citations – 344

fields of expertise:

(1) main field: magnetism, magnetic materials

(2) other fields: solid state physics

(3) current research interests: films and nanostructures, amorphous and soft magnetic materials, biphasic magnetic microwires, layered structures, domain wall dynamics, magnetic properties of wires, high-frequency properties of amorphous materials, giant magnetic impedance, non-linear magnetoimpedance, Heusler alloys, exchange bias, uniaxial anisotropy, magnetic methods in biology, ecology and medicine, electromagnetic actuating.

selected most important publications:

1) Magnetic properties and magnetocaloric effect in Heusler-type glass-coated NiMnGa microwires, A Zhukov, V Rodionova, M Ilyn, AM Aliev, R Varga, S Michalik, A Aronin, Journal of Alloys and Compounds 575, 73-79, 2013,

2) Magnetocaloric effect in “reduced” dimensions: Thin films, ribbons, and microwires of Heusler alloys and related compounds, VV Khovaylo, VV Rodionova, SN Shevyrtalov, V Novosad, physica status solidi (b) 251 (10), 2104-2113, 2014,

3) Manipulation of magnetic properties of glass-coated microwires by annealing, A Zhukov, K Chichay, A Talaat, V Rodionova, JM Blanco, M Ipatov, Journal of Magnetism and Magnetic Materials 383, 232-236, 2015,

4) Domain wall propagation in micrometric wires: Limits of single domain wall regime, V Zhukova, JM Blanco, V Rodionova, M Ipatov, A Zhukov, Journal of Applied Physics 111 (7), 07E311, 2012,

5) Tailoring of domain wall dynamics in amorphous microwires by annealing, K Chichay, V Zhukova, V Rodionova, M Ipatov, A Talaat, JM Blanco, Journal of Applied Physics 113 (17), 17A318, 2013.