



**Recent Trends in Nanomagnetism,
Spintronics and their Applications**



RTNSA 2015

June 29th – July 3, 2015

Palacio Barrena, Ordizia (Gipuzkoa), Spain

PROGRAM

RTNSA 2015

The 2nd International Conference "Recent Trends in Nanomagnetism, Spintronics and their Applications" (RTNSA 2015) will be held in **Palacio Barrena, Ordizia** (Gipuzkoa province of the Basque country, Spain) on **June 29 – July 3, 2015**. This is the second RTNSA conference followed by the successful RTNSA-1, which was conducted in Ordizia (Gipuzkoa) in June, 2011. The RTNSA 2015 is a multidisciplinary forum covering all aspects related to the research area of solid state magnetism, magnetic materials, magnonics, spintronics and their numerous applications.

We invited about of 20 famous researchers, who are the recognized world level experts in the mentioned research fields to present invited and plenary talks at the conference. And, especially, we are pleased by participation of **Prof. Albert Fert** and **Prof. Peter Grunberg**, 2007 Nobel Prize Winners in Physics, who will take part in the opening ceremony of the RTNSA conference and present plenary talks.

The program of RTNSA 2015 includes plenary and invited contributions from leading experts in the field, oral presentations and posters.

Sincerely,
RTNSA Organizing Committee

RTNSA Organizing Committee

Julián González (Co-chairman), University of the Basque Country, San Sebastian, Spain

Igor Eguren (Co-chairman & Chairman of the Local committee), Mayor of Ordizia, Ordizia, Gipuzkoa, Spain

Kostyantyn Gusliyenko (Chairman of the Program committee), University of the Basque Country, San Sebastian, Spain

Lourdes Domínguez (Treasurer), University of the Basque Country, San Sebastian, Spain

Yuliya Guslienko (Secretary & Web-administrator), Irura, Gipuzkoa, Spain

Program & Publication Committee

Kostyantyn Gusliyenko (Chairman), Ikerbasque Research Prof., University of the Basque Country, San Sebastian, Spain

Daniel Baldomir, University of Santiago de Compostela, Santiago de Compostela, Spain

Blanca Hernando Grande, University of Oviedo, Oviedo, Spain

Oksana Chubykalo-Fesenko, Instituto de Ciencia de Materiales de Madrid, CSIC, Madrid, Spain

Gleb Kakazei, University of Porto, Porto, Portugal

Gregoire de Loubens, CEA Saclay, Paris, France

Local Committee

Igor Eguren (Chairman), Mayor of Ordizia, Ordizia, Gipuzkoa, Spain

Belen Maiza, City Hall of Ordizia, Ordizia, Gipuzkoa, Spain

Alexander Chizhik, University of the Basque Country, San Sebastian, Spain

Valentina Zhukova, University of the Basque Country, San Sebastian, Spain

Mihail Ipatov, University of the Basque Country, San Sebastian, Spain

Juan Maria Blanco, University of the Basque Country, San Sebastian, Spain

Lourdes Domínguez, University of the Basque Country, San Sebastian, Spain

Juan José del Val, University of the Basque Country, San Sebastian, Spain

Ai Ping Chen, University of the Basque Country, San Sebastian, Spain

Iñaki Hidalgo, City Hall of Ordizia, Ordizia, Gipuzkoa, Spain

Leire Arandía, D'Elikatuz, Ordizia, Gipuzkoa, Spain

Jesús María Láriz, City Hall of Ordizia, Ordizia, Gipuzkoa, Spain

RTNSA Program at a glance

<u>June, 29th</u>	<u>June, 30th</u>	<u>July, 1st</u>	<u>July, 2nd</u>	<u>July, 3rd</u>
	8.30-9.15 Registration			
	9.15-9.45 Conference opening	9.00-11.00 Talks	9.00-10.15 Talks	9.00-10.45 Talks
	9.45-11.15 Talks	11.00-11.15 Coffee break	10.15-10.45 Coffee break	10.45-11.15 Coffee break
	11.15-11.30 Coffee break	11.00-12.00 Visit to the Ordizia market	10.45-13.00 Talks	11.15-12.15 Talks
	11.30-13.00 Talks	12.00-13.00 Welcome from local government	13.00-15.00 Lunch	12.15-12.30 Conference closing
	13.00-15.00 Lunch	13.00-15.00 Lunch	15.00-17.00 Talks	13.00-15.00 Lunch
	15.00-16.30 Talks	15.00-16.15 Talks	17.00-17.15 Coffee break	
	16.30-16.45 Coffee break	16.15-16.30 Coffee break	17.15-19.15 Talks	
17.00-20.00 Welcome party & Registration	16.45-18.00 Talks	16.30-18.00 Talks	19.15-19.45 Lecture	
	18:00-20:00 Poster Session A	18.00-20.00 Poster Session B	19.45-20.30 Sightseeing	
	20.00-22.00 Dinner	20.00-22.00 Cheeze & Wine party, Dinner	20.30-22.30 Dinner	

RTNSA PROGRAM

	<u>Monday, June 29, 2015</u>
17:00-20:00	Welcome party and onsite registration

	<u>Tuesday, June 30, 2015</u>
8:30-9:15	Late registration
9:15-9:30	Conference opening (<i>Chairmen: Julian González and Igor Eguren</i>)
9:30-9:45	Welcome from Ordizia Ayuntamiento
9:45-10:30	Plenary talk: P. Grünberg , Institute for Advanced Simulation (IAS) / Jülich Supercomputing Centre (JSC), Jülich, Germany: <i>"From acoustic waves to spin waves and matter waves"</i>
10:30-13:00	Session 1. Preparation and characterization of magnetic/spintronic materials and nanostructures Chair: H. Srikanth
10:30-11:00	Invited talk: A. Yelon , Institute Politechnique of Montreal, Montréal, Canada: <i>"Preparation and properties of multilayer magnetic-nonmagnetic nanowire arrays"</i>
11:00-11:30	Invited talk: G. Hadjipanayis , University of Delaware, Newark, USA: <i>"Mechanochemical synthesis of $R_2Fe_{14}B$ nanoparticles"</i>
11:30-11:45	<u>Coffee break</u>
11:45-12:15	Invited talk: Y. Lyubina , Imperial College London, London, United Kingdom: <i>"Dynamics of first-order transition and hysteresis in magnetocaloric materials"</i>
12:15-12:45	Oral talk: M. Foerster , ALBA Synchrotron Light Facility, Barcelona, Spain: <i>"Magnetism at the ALBA Synchrotron"</i>
12:45-13:00	Oral talk: C. Luna , Universidad Autónoma de Nuevo León, Nuevo León, Mexico: <i>"Magnetism in ultrafine akaganéite (β-FeOOH) nanoparticles"</i>
13:00-15:00	<u>Lunch break</u>
15:00-18:00	Session 2. Fast/ultrafast magnetization dynamics, spin waves in patterned nanostructures and magnonics Chair: A. Hoffmann
15:00-15:30	Invited talk: B. Hillebrands , University of Kaiserslautern, Kaiserslautern, Germany: <i>"Spin transport using magnon gases"</i>

15:30-16:00	Invited talk: R. Stamps , University of Glasgow, Glasgow, United Kingdom: “ <i>Dynamics of chiral spin systems: soliton lattices, defects and spin waves</i> ”
16:00-16:30	Invited talk: A. Serga , University of Kaiserslautern, Kaiserslautern, Germany: “ <i>Influence of spin waves on electrical currents in ferromagnets</i> ”
16:30-16:45	<u>Coffee break</u>
16:45-17:00	Oral talk: O. Chubykalo-Fesenko , Instituto de Ciencia de Materiales de Madrid (CSIC), Madrid, Spain: “ <i>Modeling of ultra-fast relaxation rates and reversal time in disordered ferrimagnets</i> ”
17:00-17:15	Oral talk: D. Navas , University of Porto, Porto, Portugal: “ <i>Ultrafast demagnetisation and precessional dynamics in GdFeCo thin films using a new pump-probe system in the sub-8 femtosecond range</i> ”
17:15-17:30	Oral talk: D. A. Bozhko , University of Kaiserslautern, Kaiserslautern, Germany: “ <i>Full electric detection of a Bose-Einstein condensate via the spin-pumping effect</i> ”
17:30-17:45	Oral talk: G. Kakazei , University of Porto, Porto, Portugal: “ <i>Four-fold anisotropy in two dimensional modulated permalloy films</i> ”
17:45-18:00	Oral talk: J. Rychly , University of Adam Mickiewicz, Poznan, Poland: “ <i>Integrated density of states for spin waves in the planar Fibonacci quasi-crystal</i> ”
18:00-20:00	Poster session A (preparation / characterization, nanoscale systems, applications) Chair: D. Navas
20:00-22:00	<u>Dinner</u>

	<u>Wednesday, July 1, 2015</u>
9:00-13:00	Session 3.1. Spin-orbit effects, spin angular momentum transfer and spin torque nano-oscillators Chair: S. D. Bader
9:00-9:45	Plenary talk: A. Fert , Unité Mixte de Physique CNRS/Thales, Palaiseau, France: “ <i>Recent advances in spin-orbitronics</i> ”
9:45-10:15	Invited talk: A. Hoffmann , Argonne National Laboratory, Lemont, USA: “ <i>Spin Hall effects in magnetically ordered materials</i> ”
10:15-10:45	Invited talk: Y. Otani , University of Tokyo / RIKEN, Tokyo, Japan: “ <i>Quasiparticle-mediated spin Hall effect in a superconductor</i> ”
10:45-11:00	Oral talk: G. de Loubens , Service de Physique de l'État Condensé, CEA Saclay, Gif-sur-Yvette, France: “ <i>Full control of the spin-wave damping in a</i>

	<i>magnetic insulator using spin-orbit torque</i>
11:00-12:00	<u>Coffee break and visit to Ordizia market</u>
12:00-13:00	Welcome from the local government
13:00-15:00	<u>Lunch break</u>
15:00-18:00	Session 4. Dynamics of magnetic vortices, skyrmions and domain walls in nanostructures Chair: K. Gusliyenko / G. de Loubens
15:00-15:30	Invited talk: T. Ono , Kyoto University, Kyoto, Japan: “ <i>Domain wall dynamics under Dzyaloshinskii-Moriya interaction</i> ”
15:30-16:00	Invited talk: A.K. Zvezdin , Russian Academy of Sciences, Moscow, Russia: “ <i>Vortex dynamics induced by spin orbit torques</i> ”
16:00-16:15	Oral talk: J. Torrejon , National Institute for Materials Science, Tsukuba, Japan and Unité Mixte de Physique CNRS/Thales, Palaiseau, France: “ <i>Engineering domain wall motion via Dzyaloshinskii-Moriya interaction and spin transmission in magnetic heterostructures</i> ”
16:15-16:30	<u>Coffee break</u>
16:30-16:45	Oral talk: H. Stoll , Max Planck Institute for Intelligent Systems, Stuttgart, Germany: “ <i>Higher order gyromodes and azimuthal spin waves in vortex structures</i> ”
16:45-17:00	Oral talk: A. S. Jenkins , Unité Mixte de Physique CNRS/Thales, Palaiseau, France: “ <i>Large rectification voltage in nanoscale highly sensitive rf detectors based on vortex core expulsion</i> ”
17:00-17:15	Oral talk: K. Koumpouras , Uppsala University, Uppsala, Sweden: “ <i>Manipulation of skyrmions with spin polarised currents</i> ”
17:15-17:30	Oral talk: Y. Yamane , Johannes Gutenberg Universität, Mainz, Germany: “ <i>Spin-transfer torque and spin-motive force in magnetic bubble systems</i> ”
17:30-17:45	Oral talk: J. Chico , Uppsala University, Uppsala, Sweden: “ <i>Relativistic effects on domain wall dynamics in Co/Ni multilayers</i> ”
17:45-18:00	Oral talk: V. Estevez , Aalto University, Espoo, Finland: “ <i>Domain wall structures in wide permalloy stripes</i> ”
18:00-20:00	Poster session B (spintronics, magnetization dynamics, theory / simulations) Chair: Yu. Ivanov
20:00-22:00	<u>Cheese and Wine Party, Dinner</u>

	<u>Thursday, July 2, 2015</u>
9:00-10:15	Session 3.2. Spin-orbit effects, spin angular momentum transfer and

	spin torque nano-oscillators Chair: H. Stoll
9:00-9:30	Invited talk: V. Cros , Unité Mixte de Physique CNRS/Thales, Palaiseau, France: “ <i>Origin and control of phase noise of spin transfer vortex oscillators: from mode coupling to mutual electrical synchronization</i> ”
9:30-10:00	Invited talk: L. Buda-Prejbeanu , SPINTEC, Grenoble, France: “ <i>Spin-orbit torque driven ultra-fast magnetization reversal in nanodots</i> ”
10:00-10:15	Oral talk: Ya. B. Bazaliy , University of South Carolina, Columbia, USA: “ <i>Spin-torque generated equilibria in spin Hall systems and their role in magnetic switching</i> ”
10:15-10:45	<u>Coffee break</u>
10:45-13:00	Session 5. Micromagnetic, multiscale and atomistic simulations of nanostructures Chair: O. Chubykalo-Fesenko
10:45-11:15	Invited talk: B. Barbara , Laboratoire Louis Néel, CNRS, Grenoble, France: “ <i>Spin decoherence: how/why it increases drastically with interactions and can be so small in strongly interacting spin-chains</i> ”
11:15-11:45	Invited talk: U. Nowak , University of Konstanz, Konstanz, Germany: “ <i>Magnon currents: propagation, localization and entropic torques</i> ”
11:45-12:00	Oral talk: Z. Gareeva , Institute of Molecule and Crystal Physics, Ufa, Russia: “ <i>Domain walls in multiferroics</i> ”
12:00-12:15	Oral talk: V. Cambel , Institute of Electrical Engineering, Slovak Academy of Science, Bratislava, Slovakia: “ <i>Asymmetrical time-evolution of magnetization in nanomagnets with broken symmetry</i> ”
12:15-12:30	Oral talk: M. Zagrebin , Chelyabinsk State University / National Research South Ural State University, Chelyabinsk, Russia: “ <i>Ab initio calculations of structural, magnetic and electronic properties of Ni-Co-Mn-Cr-Sn supercell</i> ”
12:30-12:45	Oral talk: O. Iglesias , University of Barcelona, Barcelona, Spain: “ <i>Interactions in magnetic nanoparticles: phenomenology and atomistic modeling</i> ”
12:45-13:00	Oral talk: D. Isaev , Lomonosov Moscow State University, Moscow, Russia: “ <i>Magnetocapacitance effect - simulation in magnetorheological elastomers</i> ”
13:00-15:00	<u>Lunch break</u>
15:00-19:15	Session 6. Magnetism of nanoscale systems Chair: G. Kakazei / A. Serga
15:00-15:30	Invited talk: S. D. Bader , Argonne National Laboratory, Lemont, USA: “ <i>Ferromagnet-superconductor heterostructures: a New Twist</i> ”
15:30-16:00	Invited talk: C. A. Ross , Massachusetts Institute of Technology, Boston,

	USA: “ <i>Self assembled nanocomposite multiferroic oxides</i> ”
16:00-16:30	Invited talk: M. Baibich , Universidad de Porto Alegre, Porto Alegre, Brazil: “ <i>Spinodal decomposition, nanomagnetism and giant magnetoresistance</i> ”
16:30-16:45	Oral talk: P. Granitzer , University of Graz, Graz, Austria: “ <i>Control of the magnetic properties of biocompatible iron oxide/silicon nanocomposites</i> ”
16:45-17:00	Oral talk: K. Rumpf , University of Graz, Graz, Austria: “ <i>Magnetic interactions between embedded nanostructures influenced by the template pore-morphology</i> ”
17:00-17:15	<u>Coffee break</u>
17:15-17:45	Invited talk: M. Pardavi-Horvath , The George Washington University, Washington, USA: “ <i>Magnetic carbon nanotubes</i> ”
17:45-18:15	Invited talk: H. Srikanth , University of South Florida, Tampa, USA: “ <i>Surface and interface magnetism in core-shell and hybrid nanostructures</i> ”
18:15-18:30	Oral talk: J. de la Venta , Colorado State University, Fort Collins, USA: “ <i>Coupling of magnetism and structural phase transitions in hybrid nanostructures</i> ”
18:30-18:45	Oral talk: Yu. P. Ivanov , King Abdullah University of Science and Technology, Thuwal, Saudi Arabia / Instituto de Ciencia de Materiales de Madrid (CSIC), Madrid, Spain: “ <i>LorTEM and holography of the ordered array of magnetic nanowires in the vortex state</i> ”
18:45-19:00	Oral talk: V. Prida , University of Oviedo, Oviedo, Spain: “ <i>Unraveling the role of exchange coupling in the magnetization reversal of Co/Ni nanowires</i> ”
19:00-19:15	Oral talk: A. Samardak , Far Eastern Federal University, Vladivostok, Russia: “ <i>FORC analysis and dimensionality of template-assisted CoNi nanowire arrays</i> ”
19:15-19.45	Lecture: Peter Grünberg and Keiko Hibi , “ <i>The Singing Rod a new tool to identify materials suitable for music instruments</i> ”
19:45-22:30	<u>Sightseeing and Conference dinner</u>

	<u>Friday, July 3, 2015</u>
9:00-12:15	Session 7. Applications of magnetic nanostructures: nanosensors, magnetic memory, spintronic devices etc. Chair: M. Pardavi-Horvath
9:00-9:30	Invited talk: A. Hernando , Instituto de Magnetismo Aplicado (UCM-ADIF-CSIC), Madrid, Spain: “ <i>Scattering of electromagnetic waves by high magnetoimpedance microwires</i> ”

9:30-10:00	Invited talk: Ioan Polenciuc , University of York, York, United Kingdom: “ <i>Racetrack memory based on exchange bias</i> ”
10:00-10:15	Oral talk: E.V. Anda , Departamento de Física, PUC-Rio, Rio de Janeiro, Brazil: “ <i>A Kondo two dots spin-filter device</i> ”
10:15-10:30	Oral talk: H. Prima-Garcia , Molecular Science Institute, Valencia, Spain: “ <i>Modulating light with external magnetic fields: Fabrication of Spin-OLEDs</i> ”
10:30-10:45	Oral talk: G.V. Kurlyandskaya , University of the Basque country, Bilbao, Spain: “ <i>Magnetoimpedance biosensor prototype for ferrogel detection</i> ”
10:45-11:15	<u>Coffee break</u>
11:15-11:30	Oral talk: C. Muñoz-Menéndez , University of Santiago de Compostela, Santiago de Compostela, Spain: “ <i>On the importance of size polydispersity for magnetic-fluid hyperthermia</i> ”
11:30-11:45	Oral talk: I. Conde-Leboran , University of Santiago de Compostela, Santiago de Compostela, Spain: “ <i>On the role of the magnetocrystalline anisotropy on the hyperthermia performance of nanoparticle chains</i> ”
11:45-12:00	Oral talk: D. Lago-Cachón , University of Oviedo, Oviedo, Spain: “ <i>High frequency lateral flow immunoassay using superparamagnetic nanoparticles</i> ”
12:00-12:15	Oral talk: E. Garaio , University of the Basque Country, Bilbao, Spain: “ <i>Specific absorption rate in magnetic field hyperthermia: ac magnetometry and linear response theory</i> ”
12:15-12:30	<u>Conference closing</u>
13:00-15:00	<u>Lunch</u>

POSTER SESSIONS

Poster Session A (June 30, 2015) Chairperson: D. Navas

Jose A. Garcia	“Magnetic nanoparticles for drug delivery”
Jose Higinio Dias Filho	“Study of magnetic fluid CoFe_2O_4 with mauritia flexuosa oil and tween 80”
Pilar Prieto	“Role of the substrate on the magnetic anisotropy of magnetite thin films grown by IAD”
J. M. Orozco	“Synthesis of iron-oxide nanoparticles. Size and shape effect on magnetic properties”
Abdelmajid Ainane	“Dynamic magnetic hysteresis behavior in the ising nanoparticle”
Juan Luis Palma	“Nanostructured supermalloy film on ordered metallic nanohills”
J.J. Suñol	“Magnetic and structural analysis of $\text{Mn}_{50}\text{Ni}_{40}\text{In}_{10}$ ”
Jorge Luis Lopez	“Synthesis and characterization of magnetite with olive oil functionalized by lapachol”
Abd El-Moez A. Mohamed	“Effect of annealing temperature on the magnetoresistive properties of manganites/insulator system”
M. Nazmunnahar	“Microstructural and magnetic properties of half-metallic Ni_2MnSn bulk rod and ribbon heusler alloys”
Damien Le Roy	“Magnetic texturing in deposited nanomagnet systems”
Laziz Niyazov	“Investigation of influence of the magnetic structure rebuilding on the magneto optical anisotropy of a single crystal $\alpha - \text{Fe}_2\text{O}_3: \text{Ga}$ ”
Sohini Manna	“Anomalous AMR behaviour in single crystal nickel nanowire with superconducting leads”
Anton Anzulevich	“Artificial magnetic losses in powders from metalized dielectric particles”
A. García-Prieto	“Reduction of the mean magnetic moment of Ni clusters embedded in Ag”
Kai-Han Chao	“Effects of the thin fe-oxide layer and in-situ argon ion-beam bombardment on magnetic properties of FE/FeV thin films”
T.P. Krinitsina	“NMR investigation of interfaces in $[\text{Co}/\text{Cu}]_{10}$ superlattices with varying Cu thickness”
Mehran Yazdizadeh	“Magnetic anisotropy in ferromagnetic arrays of multilayer nanowires”

D. R. Cornejo	“Magnetic properties of nanostructured FERH and FERH/FE films”
Juan Escrig	“Magnetic properties of iron oxide nanotubes: Influence of the diameter of the nanotubes”
Juliano C. Denardin	“Magnetic properties of Co/Pd multilayers deposited in alumina membranes”
C. Meiorin	“Magnetic behavior of nanocomposites based on magnetite nanoparticles and tung oil”
A. Pereira	“Temperature dependent magnetic properties of Ni nanotube arrays”
A.P. Chen	“Nanotube length dependence of the confined domain wall reversal”
Julian González	“Magnetic cores based on soft magnetic nanocrystalline alloys with induced magnetic anisotropy”
Maxim Ulyanov	“Magnetocaloric properties of cold rolled Gd _{100-x} Ga _x (x = 0..20) intermetallic alloys”
Dmitry Bataev	“Influence of severe plastic deformed on magnetic and magnetocaloric properties Gd _{100-x} B _x (x = 0..7) intermetallic alloys”
M. E. F. Brollo	“Core-shell Ag@Fe ₃ O ₄ brick-like nanoparticles for magnetic hyperthermia”
Raquel Mendoza-Reséndez	“Synthesis, characterization and magnetically-guided antiproliferative activity studies of drug-loaded superparamagnetic nanovectors”
Eneko Garaio	“Specific absorption rate in magnetic field hyperthermia: AC magnetometry and linear response theory”
Andrey Svalov	“Tailoring of switching field in gdcO-based spin valves by inserting co layer”
Hui-Shan Chen	“The dependence of NIFE/CR-oxide bilayer’s magnetism on CR-oxide thicknesses and sto single crystalline substrate”

Poster Session B (July 1, 2015) *Chairperson: Yu. Ivanov*

K.J. Merazzo	“Magnetic tunnel junction spin torque oscillators”
U. Ebels	“Non-linear mode interaction between spin torque driven and damped modes in spintorque nano-oscillators”
Gleb Demin	“Spin transfer torque and current-induced magnetization switching in multiferroic tunnel junctions”
Vladimir Ustinov	“Spin transport in Fe-InSb ferromagnet-semiconductor lateral device under the Hanle effect conditions”
Helmut Körner	“Asymmetric spin wave dispersion due to interfacial Dzyaloshinskii-Moriya interaction”

Alexander Kamantsev	“Electromagnetic waves generation in functional alloys at magnetic and structural phase transitions”
Robert Islinger	“Spin pumping inverse spin Hall effect and spin transfer torque ferromagnetic resonance in NiFe/Pt and NiFe/Ta bilayers”
Pawel Gruszecki	“Influence of magnetic surface anisotropy on spin wave reflection from the edge of ferromagnetic film”
Alberto García-García	“Damping of CoFeB films deposited on MgO and Ru buffer layers”
Natalia Grigoryeva	“Magnetic and electric field tuning of spin-wave states in nanosized ferrit-ferroelectric waveguide”
Gleb Kakazei	“Comparative study of magnetic nanowire and nanotube arrays by ferromagnetic resonance”
Petr Skirdkov	“Vertical current induced domain wall dynamics in nanowire with perpendicular magnetic anisotropy”
Dmitry Kuzmin	“Kinetics of first order phase transition”
Igor Bychkov	“Electromagnetic waves emission by spiral magnets at phase transition”
Alexey Ognev	“Structure and stability of skyrmion states in perpendicularly magnetized multilayer nanodisks”
Vladimír Cambel	“Dual-tip for magnetic-field imaging at nanoscale”
Juan Escrig	“Current-driven vortex domain wall motion in wire-tube nanostructures”
Tomas Scepka	“Vortex dynamics in nanomagnets with broken symmetry observed by micro-hall probe magnetometry”
Juan Luis Palma	“Magnetostatic interactions between wire-tube nanostructures”
Abdellah Feraoun	“Monte Carlo study of the phase diagrams of a mixed spin (1, 1/2) ferrimagnetic nanowire”
N. Zaim	“Monte Carlo study of a spherical ferrimagnetic nanoparticle system with disordered shell”
Sergey Lamekhov	“Phase transition modeling in multiferroics”
Sergey Lamekhov	“Monte Carlo modelling of multiferrocity in magnetostrictive Ising spin chain with defect”
Oleksii Volkov	“Spin-current induced magnetization structures in nanomagnets”
Yaroslav Bazaliy	“Mechanical analogy for spin currents and torques in diffusive systems”
Victor Vega	“Ferromagnetic resonance in low interacting permalloy nanowire arrays”
K. Gusliyenko	“Bubble-skyrmions in magnetic nanodots with perpendicular anisotropy”

Sponsors:



Organizers:



Euskal Herriko
Unibertsitatea

