International Workshop
Novel Trends in Physics of Ferroics 2014

Friday, July 4 **Program**

08.30-09.30	**Registration**	
09.30-09.45	**Opening ceremony**	
09.45-11.15	**Session 1**	**Frontiers of physics of ferroics**
09.45-10.15	Igor Lyubutin *invited talk*	Multiferroics under high pressures
10.15-10.45	Roberta Sessoli *invited talk*	Magnetochiral molecular nanowires
10.45-11.15	Luigi Paolasini *invited talk*	Circularly polarized x-rays scattering investigation of spin-lattice coupling in cycloidal multiferroic $TbMnO_3$
11.15-11.45	**Coffee break**	

11.45-13.00	**Session 2**	**Magnetoelectric structures**
11.45-12.15	Alexandra Mougin *invited talk*	Making use of ferroic oxides to tune magnetism
12.15-12.45	Virginie Simonet *Invited talk*	Magnetoelectric excitations in multiferroics probed by neutron scattering and THz spectroscopy
12.45-13.00	Tatyana Gavrilova *invited report*	Phase transitions at the interface multiferroic/ ferroelectric $GdMnO_3/SrTiO_3$
13.00-13.15	Ratnamala Chatterjee *invited report*	Self biased magnetoelectricity in co-sintered BNT-CFO ferroic composite
13.15-14.30	**Lunch**	

14.30-16.00	**Session 3**	**Magnetization dynamics and control of magnetic state**
14.30-15.00	Boris Ivanov *invited talk*	Longitudinal spin-orbital dynamics and non-linear spin current in magnets
15.00-15.15	Johan Mentink *invited report*	Ultrafast quenching of the exchange interaction in a Mott insulator
15.15-15.45	Andrew Rushforth *invited talk*	Domain walls and magnetisation dynamics in magnetostrictive thin films
15.45-16.00	Matteo Savoini *invited report*	Optical control of magnetism at the beyond light-diffraction limit
16.00-16.30	**Coffee break**	

16.30-18.00	**Session 4**	**Spin-photonics**
16.30-17.00	Hiro Munekata *invited talk*	Spin photonics: materials and device concepts
17.00-17.30	Takuya Satoh *invited talk*	Terahertz spin manipulation in antiferromagnets
17.30-17.45	Rostislav Mikhaylovskiy *invited report*	Optical Control of Exchange Integrals in Magnetic Insulators on Sub-Picosecond Timescale
17.45-18.00	Andrea Secchi *invited report*	Non-equilibrium magnetic interactions in strongly correlated systems: a Green's function approach

18.00-20.00	**Poster Session and refreshments**

International Workshop
Novel Trends in Physics of Ferroics 2014

Saturday, July 5 **Program**

09.30-11.00	**Session 5**	**Magnetism and multiferroicity at the nanoscale**
09.30-10.00	Frithjof Nolting *invited talk*	Anisotropy control in artificial multiferroics and nanomagnets studied with photoemission electron microscopy
10.00-10.30	Michael Farle *invited talk*	Interface driven functionality in magnetic nanoparticles
10.30-11.00	Andrei Kirilyuk *invited talk*	Terbium and rhodium clusters: 'multiferroics' that used to be metals?
11.00-11.30		**Coffee break**

11.30-13.00	**Session 6**	**Magnonics**
11.30-12.00	Sergey Nikitov *invited talk*	Nonlinear and edge effects in magnonic crystals
12.00-12.30	Maciej Krawczyk *invited talk*	Spin waves in magnonic crystals
12.30-12.45	Manuel Vázquez *invited report*	Tuned motion of a single-domain wall in microwire with axial anisotropy
12.45-13.00	Alexey Ustinov *invited report*	Nonlinear phase shifters based on spin-electromagnetic waves
13.00-14.00		**Lunch**

14.00-15.30	**Session 7**	**Ferroelectrics**
14.00-14.30	Tomas Sluka *invited talk*	Charged domain walls in ferroelectrics
14.30-15.00	Evgeny Tsymbal *invited talk*	Ferroelectric and Multiferroic Tunnel Junctions
15.00-15:15	Sumio Ishihara *invited report*	Multiferroics in Electronic Ferroelectricity in Organic Compounds
15.15-15.30	Alexander Morosov *invited report*	“Long leg” magnetoelectric memory
15.30-15.45		**Closing remarks**

16.00-19.00	**Excursion**
19.00-21.00	**Workshop dinner**

Friday, July 4 **Program**

18:00 – 20:00		**Poster session**
1	Sergei Aplesnin	Magnetodielectric properties of $Bi_{1-x}Gd_xFeO_3$ films
2	Kirill Boldyrev	Comprehensive spectroscopic study of multiferroic $EuFe_3(BO_3)_4$
3	Mikhail Bryushinin	Non-steady-state photo-electromotive force acting on dynamic space-charge gratings in MnO crystals
4	Anton Grebennikov	Low values of Curie temperature in the system Ni-MgO
5	Irina Gudim	Magnetic properties of paramagnetic $TmAl_{2,5}Sc_{0,5}(BO_3)_4$ single crystals
6	Andrei Ignatenko	Spiral magnetic states in frustrated cubic lattice ferromagnets
7	Alexandra Kalashnikova	Ultrafast laser-induced dynamics of spins and lattice in copper metaborate CuB_2O_4
8	Alexander Korovin	Strain and magnetic anisotropy of ultra thin yttrium iron garnet films grown by laser MBE
9	Andrei Kuncevich	Neutron diffraction study of quasi-2D honeycomb antimonate $Na_3Co_2SbO_6$
10	Leonid Lutsev	Control of spins of injected electrons by charge localized in quantum well at the interface in SiO_2(Co)/GaAs heterostructures
11	Alexander Malakhovskii	Local magnetic properties of multiferroic $Nd_{0.5}Gd_{0.5}Fe_3(BO_3)_4$ in the excited states of Nd^{3+} ion
12	Maria Morozova	Mechanism of band gap formation in periodic structure with magnonic crystal and ferroelectric
13	Vladimir Nizovtsev	Vortex Knot Model of Electron
14	Viktoria Sanina	Rare-earth polar order and polarization due to multiferroic domain formation in orthochromites
15	Leonid Shelukhin	Ultrafast optical control of magnetization in ferrimagnetic garnet films for magnonics applications
16	Ruslan Subkhangulov	All-optical manipulation and probing of the d–f exchange interaction in EuTe
17	S. Tarasenko	The spin –wave electrodynamics of the PML - type magnetoelectric multiferroic film
18	Natalia Urusova	Magnetic state of $LiMPO_4$ type compounds
19	Sergey Vysotsky	Microwave transmission line based on multiferroic YIG/ZnO structure
20	Galina Zvyagina	Features of magnetic properties of yttrium ferroborate at low temperatures