

International Symposium Spin Waves 2013

Monday, June 10

Oral Session Program

09.15-09.30	Opening ceremony	
09.30-11.00	Session 1	Modern problems of spin dynamics
09.30-10.00	D. McMorrow (invited)	Magnetic structures and dynamics of novel <i>5d</i> transition metal oxides p. 20
10.00-10.30	I. Radu (invited)	Exploring ultrafast magnetism with X-rays and THz excitations p. 21
10.30-10.45	V. N. Glazkov	Electron spin resonance modes of the “four-leg spin-tube” spin-gap magnet p. 22
10.45-11.00	A. Chumak	Spin waves in a microstructured ion-implanted magnonic crystal p. 23
11.00-11.30	Coffee break	
11.30-13.00	Session 2	Spintronics and magnetism at the nanoscale
11.30-12.00	N. A. Pertsev (invited)	Voltage control of magnetization dynamics in ferromagnetic nanostructures p. 24
12.00-12.15	F. Y. Ogrin	Magnetic imaging with HERALDO p. 25
12.15-12.30	H. Stoll	Spin wave mediated vortex core reversal p. 26
12.30-12.45	S. D. Brechet	Irreversible thermodynamics of transport and relaxation of the magnetization with applications for spintronics and spin caloritronics p. 27
12.45-13.00	S. Khmelevskiy	Spin-orbit coupling induced effects in practical antiferromagnets and new route in antiferromagnetic spintronics p. 28
13.00-14.30	Lunch	
14.30-16.15	Session 3	Ultrafast control of magnetization
14.30-15.00	H. Dürr (invited)	Ultrafast emergence of nanoscale ferromagnetism far from equilibrium p. 29
15.00-15.30	U. Bovensiepen (invited)	Ultrafast transport dynamics of hot, spin-polarized charge carriers in metallic multilayers p. 30
15.30-15.45	R. Adam	Ultrafast magnetization enhancement in ferromagnetic multilayers driven by superdiffusive spin currents p. 31
15.45-16.00	J. Barker	Two magnon bound state causes the ultrafast thermally induced magnetization switching p. 32
16.00-16.15	R. R. Subkhangulov	Femtosecond generation of coherent spin waves in EuTe p. 33
16.15-16.45	Coffee break	
16.45-18.00	Session 4	Magnonics
16.45-17.15	B. Hillebrands (invited)	Magnon gases and condensates p. 34
17.15-17.30	Yu. A. Filimonov	Influence of the first order and second order parametric instabilities on MSSW Bragg resonances in magnonic crystals p. 35
17.30-17.45	T. Brächer	Parametric spin-wave generation in microstructured magnonic waveguides p. 36
17.45-18.00	N. Polushkin	Non-Bragg origin of bandgaps in magnonic crystals p. 37
18.00-20.00	Poster Session and refreshments	

International Symposium Spin Waves 2013

Tuesday, June 11

Oral Session Program

09.00-10.45	Session 5	Current-induced spin devices	
09.00-09.30	J. Åkerman (invited)	Magnetic droplet solitons in nano-contact spin torque oscillators with perpendicular magnetic anisotropy	p. 38
09.30-10.00	O. Klein (invited)	Mechanical detection of spin-waves in a spin-transfer nano-oscillator	p. 39
10.00-10.30	U. Ebels (invited)	Experimental characterization of non-isochronous properties of spin torque nano-oscillators	p. 40
10.30-10.45	A. N. Slavin	Nonreciprocal spin wave modes in arrays of dipolarly coupled magnetic nanodots	p. 41
10.45-11.15		Coffee break	

11.15-13.00	Session 6	High frequency spin excitations	
11.15-11.45	J. Kirschner (invited)	Excitation and relaxation of THz magnons by spin-polarized electrons	p. 42
11.45-12.15	C. Back (invited)	Imaging the current induced spin wave Doppler shift	p. 43
12.15-12.30	R. Jayaraman	High energy surface spin waves of ultrathin 3d transition metal films	p. 44
12.30-12.45	C. Etz	Atomistic spin dynamics of low-dimensional magnets	p. 45
12.45-13.00	T. A. Ostler	Calculations of spin-spin correlation functions out of equilibrium for a classical Heisenberg ferromagnet	p. 46
13.00-14.30		Lunch	

14.30-18.00	Session 7	Excitations in quantum and frustrated magnets	
14.30-15.00	S. Bramwell (invited)	Monopoles and magnetricity in spin ice	p. 47
15.00-15.15	L. E. Svistov	High-field NMR of the quasi-1D antiferromagnet LiCuVO ₄	p. 48
15.15-15.30	K. Yu. Povarov	Anisotropy switching and the phase diagram of a S=1/2 square lattice antiferromagnet Cu(pz) ₂ (ClO ₄) ₂	p. 49
15.30-15.45	V. R. Shaginyan	Strongly correlated spin liquid in herbertsmithite	p. 50
15.45-16.00	O. A. Petrenko	Low-temperature magnetism in the honeycomb systems SrRE ₂ O ₄	p. 51
16.00-16.15	S. V. Demishev	Experimentum crucis for the antiferro-quadrupole model of the phase II in CeB ₆ : first results	p. 52
16.15-16.45		Coffee break	
16.45-17.15	D. Hübner (invited)	Effect of magnetic bond disorder on spin dynamics and on field induced ordering transition in spin liquids	p. 53
17.15-17.30	A.V. Syromyatnikov	Spin nematic states in non-frustrated magnets containing ferromagnetic bonds	p. 54
17.30-17.45	A. A. Gippius	NMR study of the ground state spin structure in the paper-chain compound Ba ₃ Cu ₃ In ₄ O ₁₂	p. 55
17.45-18.00	A. N. Vasiliev	Magnetic structure of the frustrated S = 1/2 chain magnet LiCu ₂ O ₂ doped with nonmagnetic Zn	p. 56

Wednesday, June 12

Guided tour to a former imperial summer residence **Tsarskoye Selo**, including a visit to the fabled Amber Room.

Palaces and Parks of Tsarskoye Selo



The Tsarskoye Selo palace and park ensemble (the Tsarskoye Selo State Museum-Preserve) is a superb monument of world-ranking architecture and garden-and-park design dating from the eighteenth to early twentieth centuries. A whole constellation of outstanding architects, sculptors and painters made the ideas of their crowned clients a reality here. Tsarskoye Selo is a cluster of very fine examples of Baroque and Classical architecture and it was also the first place in the Russian capital where interiors decorated in the Moderne (Art Nouveau) style appeared.

The compositional centre of the ensemble is the Great Tsarskoye Selo or Catherine Palace – a splendid example of the Russian Baroque. Visitors are enraptured by the sumptuous décor of the Great Hall and the Golden Enfilade of state rooms that includes the world-famous Amber Room now returned to life. Today, as we enter the palace, we can sense the spirit of the times of Empresses Elizabeth and Catherine II and admire unique works of fine and applied art.

Tsarskoye Selo is a home to one of the finest creations of Classicism in architecture – the Alexander Palace. Passing through the rooms of the living apartments opened to visitors, you can get an idea of the aesthetic preferences of the last members of the Romanov dynasty and view the Emperor's State Study that was decorated in the Moderne style.

More than a hundred historical monuments are scattered across the Catherine and Alexander Parks that have a joint area of 300 hectares: there are grand palaces and intimate pavilions, bridges and marble monuments, and also exotic structures imitating Gothic, Turkish and Chinese architecture that invest little corners of the parks with a romantic atmosphere.

International Symposium Spin Waves 2013

Thursday, June 13

Oral Session Program

09.15-10.15	Session 8	Spin dynamics probed by THz spectroscopy
09.15-09.45	Y. Takahashi (invited)	Terahertz magnetoelectric resonance with electromagnons in multiferroic materials p. 57
09.45-10.00	R. V. Mikhaylovskiy	THz emission spectroscopy of orthoferrites: evidence for optical ultrafast modulation of spin-spin exchange interaction p. 58
10.00-10.15	G. H. Ma	THz switching of spin coherence in antiferromagnetic RFeO ₃ crystal p. 59
10.15-10.45		Coffee-break
10.45-13.00	Session 9	Spin dynamics in multilayers and nanostructures
10.45-11.15	J. Sampaio (invited)	Stability and propagation of Skyrmions in nanostructures p. 60
11.15-11.30	S. Wintz	Linear excitation of short propagating spin waves in a pair of layered vortices with opposite circulations p. 61
11.30-11.45	J. Xiao	Spin wave excitation in ferromagnetic insulators p. 62
11.45-12.00	V. Mironov	Controlled domain wall pinning in ferromagnetic nanowire by stray fields of nanoparticles p. 63
12.00-12.15	L. V. Lutsev	Photo-induced magneto-transport phenomena in SiO ₂ (Co)/GaAs nanostructures in the avalanche regime p. 64
12.15-12.30	A. B. Drovosekov	Interlayer coupling in Fe/Cr/Gd multilayers p. 65
12.30-12.45	J. V. Kłos	Symmetry-related criteria for the occurrence of defect states in magnonic superlattices p. 66
12.45-13.00	Yu. V. Khivintsev	Utilization of micro-sized antennas for spin waves excitation in yttrium iron garnet films p. 67
13.00-14.30		Lunch
14.30-16.15	Session 10	Skyrmions, domain walls and vortices
14.30-15.00	M. Garst (invited)	Skyrmion and helimagnon excitations in metallic and insulating chiral magnets p. 68
15.00-15.15	O. Sukhostavets	Collective excitation vortex dynamics in circular dot pair and 2D Arrays p. 69
15.15-15.30	O. G. Udalov	Exchange magneto-electric effect in magnetic vortex p. 70
15.30-15.45	T. Shapaeva	Spin waves dynamics in the domain wall of yttrium orthoferrite p. 71
15.45-16.00	O. Koplak	Competition of Peierls relief and structural defect damping of domain walls in chiral and racemic metal-organic magnets p. 72
16.00-16.30		Coffee-break
16.30-17.45	Session 11	Spin excitations in complex systems
16.30-16.45	A. S. Moskvina	Interplay of spin and orbital magnetic orders in doped cuprates p. 73
16.45-17.00	V. A. Sanina	Spin-wave excitations in superlattices self-assembled in multiferroic single crystals p. 74
17.00-17.15	V. Val'kov	Effect of multiple scattering on the quantum transport of electrons through a magnetic impurity with the single-ion anisotropy p. 75
17.15-17.30	G. B. Teitel'baum	What drives the iron pnictides into the spin density wave phase? p. 76
17.30-17.45	A. A. Fraerman	Nonreciprocal neutron scattering by noncoplanar magnetic systems p. 77
19.00-21.30		Symposium dinner

International Symposium Spin Waves 2013**Oral Session Program****Friday, June 14**

09.00-10.30	Session 12	Ultrafast laser-induced spin dynamics	
09.00-09.30	B. A. Ivanov (invited)	Ultrafast spin reversal by femtosecond laser pulses	p. 78
09.30-09.45	D. Bossini	Ultrafast opto-magnetism in the Heisenberg antiferromagnet KNiF ₃	p. 79
09.45-10.00	J. Jäger	Ultrafast magnetization precession in ferromagnetic thin films induced by picosecond shear strain pulses	p. 80
10.00-10.15	D. Afanasiev	Optical excitation and anharmonic dynamics of magnetic anisotropy in FeBO ₃	p. 81
10.15-10.30	T. Satoh	Spin-wave manipulation by ultrashort light pulses	p. 82
10.30-11.00		Coffee-break	
11.00-13.00	Session 13	Magneto-plasmonics and magneto-photonics	
11.00-11.30	A. B. Ustinov (invited)	Stationary and chaotic spin wave processes in ferrite films, magnonic structures, and multiferroics	p. 83
11.30-11.45	I. Razdolski	Nonlocal nonlinear magneto-optical response of plasmonic crystal	p. 84
11.45-12.00	T. V. Murzina	Visualization of vortex magnetic state of magnetic nanoparticles via optical second harmonic generation	p. 85
12.00-12.15	A. A. Stashkevich	Microwave and magneto-optical properties of inverse opal films	p. 86
12.15-12.30	A. A. Grunin	Magnetoplasmonics in 1D and 2D ferromagnetic nanostructures	p. 87
12.30-12.45	S. Grishin	Generation of dissipative parametric solitons in a self-oscillating ring system based on a ferromagnetic film	p. 88
12.45-13.00	I. Lisenkov	Non-reciprocal local resonances in magnonic crystals	p. 89
13.00-13.10		Closing ceremony	
13.10-14.30		Lunch	

International Symposium Spin Waves 2013
Poster Session Program

Monday, June 10
18.00-20.00

Section 1		Modern problems of spin dynamics	
1-1	J. Becker	Laser-induced spin dynamics in NdFeCo	p. 92
1-2	A. P. Chuklanov	Magnetic force microscopy study of femtosecond laser assisted magnetization reversal in ferromagnetic particles	p. 93
1-3	V. N. Gridnev	Theory of all-optical magnetization switching in ferromagnets	p. 94
1-4	B. Koene	Site specific probing of magnetization dynamics in Bismuth Iron Garnet thin film	p. 95
1-5	V. G. Kostishyn	Features of a laser remagnetization of TbCoFe based magnetic junctions	p. 96
1-6	M. I. Kurkin	The model of quenching of the orbital momenta for electrons excited with a femtosecond optical pump	p. 97
1-7	V. V. Pavlov	Ultrafast photoinduced linear and circular anisotropy in hexagonal manganite YMnO ₃	p. 98
1-8	M. Pashkevich	Light-induced magnetization dynamics in cobalt/garnet heterostructures	p. 99
1-9	R. R. Subkhangulov	Laser-induced spin dynamics in ferromagnetic InMnAs at magnetic fields up to 7 T	p. 100
1-10	V. V. Zverev	Ultrafast transformations of transition structures in vortex asymmetric domain walls (3D micromagnetic simulations)	p. 101

Section 2		Excitations in quantum and frustrated magnets	
2-1	V. Yu. Irkhin	Strong fluctuations in frustrated cubic lattice ferromagnets with localized moments	p. 102
2-2	V. Yu. Irkhin	Correlation effects, spirals and magnetism in 2D Hubbard model	p. 103
2-3	T. V. Ischenko	Modelling of the magnetic phase diagram for a quantum helimagnet and application to the case of Mn _{1-x} Fe _x Si solid solutions	p. 104
2-4	S. Gabani	Investigation of Sm valence fluctuations in Sm _{1-x} B ₆ and Sm _{1-x} La _x B ₆ by X-ray absorption spectroscopy	p. 105
2-5	A. A. Gippius	NMR evidence of non-Zhang-Rice Cu ³⁺ centers in La ₂ Li _{0.5} Cu _{0.5} O ₄	p. 106
2-6	V. N. Glazkov	Electron spin resonance study of the spin-gap magnet with bond disorder	p. 107
2-7	S. V. Demishev	Spin excitations in the ground state of EuB ₆	p. 108
2-8	S. V. Demishev	Magnetic phase diagram of Mn _{1-x} Fe _x Si: the evidence of quantum bicriticality	p. 109
2-9	K. Matsuura	Magnetic excitations in MnV ₂ O ₄ studied by inelastic neutron scattering	p. 110
2-10	A. A. Povzner	Spin excitations in the metamagnetic transition in a system of strongly correlated electrons	p. 111
2-11	H. Sagayama	Electromagnetic excitation in multiferroic material TbMnO ₃	p. 112
2-12	A. I. Smirnov	Magnetic resonance at the field induced phase transitions of the spin-1/2 antiferromagnet on the anisotropic triangular lattice Cs ₂ CuCl ₄	p. 113

International Symposium Spin Waves 2013
Poster Session Program

Monday, June 10
18.00-20.00

Section 3		Spin waves on surfaces and in multilayers	
3-1	A. G. Bazhanov	Temperature dependence of the line widths of the spin-wave resonance mode in two-layer magnetic film	p. 114
3-2	P. V. Bondarenko	Boundary localized modes in 2D magnetic dot arrays	p. 115
3-3	T. P. Gavrilova	Electron spin resonance in thin film $GdMnO_3$	p. 116
3-4	S. V. Gerus	Distribution of surface magnetostatic waves in a ferrite film plane	p. 117
3-5	S. S. Kravchenko	Peculiarities of magnon spectrum in planar ferromagnets with a skyrmion	p. 118
3-6	E. Lock	Description of backward spin waves by means of the Maxwell equations	p. 119
3-7	E. Lock	A surface spin waves in a ferrite structures bonding with "magnetic wall material"	p. 120
3-8	A. A. Nikitin	Spin-electromagnetic waves in multiferroic structures	p. 121
3-9	A. Nikolaeva	Topological state in semiconducting $Bi_{1-x}Sb_x$ nanowires	p. 122
3-10	E. Ya Polishuk	Some peculiarities of spin-wave propagation in hexaferrite films with "easy axis" and "easy plane" uniaxial anisotropy type	p. 123
3-11	V. V. Radaykin	Irregular spectra SWR in two-layer magnetic film	p. 124
3-12	I. N. Razmyslov	Investigation of ferromagnetic resonance in metal-dielectric monolayer films	p. 125
3-13	V. A. Sanina	Universal character of low-temperature spin-charge separation and superlattices in multiferroics-manganites and antiferromagnetic cuprates	p. 126
3-14	R. A. Sultanov	Theoretical study of electric and magnetic tunability of dispersion characteristics of hybrid electromagnetic-spin waves in anisotropic artificial multiferroics	p. 127
3-15	A. Szilva	Exchange interactions in collinear and non-collinear magnets	p. 128
3-16	V. Tikhonov	Spin waves excitation in multilayered ferrite structures	p. 129
3-17	V. I. Zubkov	Spatial diagram of microwave radiation by magnetostatic surface waves propagation in nonuniform magnetized ferrite film	p. 130
3-18	V. I. Zubkov	Electromagnetic waves propagation in multilayer composite structure consist of anisotropic ferrite elements	p. 131

International Symposium Spin Waves 2013
Poster Session Program

Monday, June 10

18.00-20.00

Section 4		Spintronics and magnetism at the nanoscale	
4-1	V. A. Abalmassov	On the possibility of the dynamic nuclear self-polarization in a quantum dot	p. 132
4-2	D. A. Baranov	Magneto-optical Kerr effect enhancement in CaF ₂ /Ni/CaF ₂ /Si structures	p. 133
4-3	A. E. Ekomasov	Simulation of static and dynamic scenarios of vortex cores polarization switching of bound vortex states in nanocolumnar conducting triplex structure	p. 134
4-4	S. V. Gastev	Magnetic interaction in Co nanoparticle arrays on corrugated MnF ₂ (110) surface	p. 135
4-5	S. V. Kondovych	Parametric amplification of the magneto-mechanical oscillations in antiferromagnetic nanoparticle	p. 136
4-6	L. V. Lutsev	Fine structure of magnetoresistance and sensitivity of magnetic sensors based on SiO ₂ (Co)/GaAs heterostructures	p. 137
4-7	A. I. Morosov	“Switching” phase transition of the nanodomain state in the frustrated ferromagnet–antiferromagnet System	p. 138
4-8	V. G. Nikiforov	Core-shell approach to magnetite nanoparticles	p. 139
4-9	J. Nogues	Giant narrowing of the room temperature hysteresis loops of Co-films grown on antiferromagnetic MnF ₂ (111)-layers by magnetic proximity effects	p. 140
4-10	N. I. Plusnin	Formation, phase state and magnetic properties of grown on Si(001) nanostructures based on ultrathin layers of Co, Fe and Cu	p. 141
4-11	A. E. Polyakov	Skyrmion stabilization by dipole-dipole interaction	p. 142
4-12	A. V. Semeno	The influence of doping on spin dynamics of Ca _{1-x} Eu _x B ₆	p. 143
4-13	A. V. Tkachev	Magnetic properties of the iron-containing langasite family Ba ₃ AFe ₃ Si ₂ O ₁₄ (A = Sb, Nb, Ta) observed by zero-field NMR spectroscopy	p. 144
4-14	A. B. Ustinov	Study of electron spin-polarization relaxation in LiF	p. 145
4-15	D. A. Zyuzin	The effect of temperature on the spin-wave resonance spectra in two-layer magnetic films	p. 146

International Symposium Spin Waves 2013
Poster Session Program

Monday, June 10

18.00-20.00

Section 5		Magnonics, magneto-photonics	
5-1	C. S. Davies	Spin wave excitation and propagation in magnonic networks	p. 147
5-2	K. Dergachev	AFMR in multiferroics $\text{Nd}_{0.75}\text{Dy}_{0.25}\text{Fe}_3(\text{BO}_3)_4$	p. 148
5-3	M. V. Logunov	Evolution of two-dimensional domain patterns in uniaxial magneto-photonics materials	p. 149
5-4	A. V. Malakhovskii	Manifestation of magnetic properties in optical spectra of $\text{Nd}_{0.5}\text{Gd}_{0.5}\text{Fe}_3(\text{BO}_3)_4$	p. 150
5-5	M. Mruczkiewicz	Nonreciprocal dispersion of spin waves in magnonic crystals	p. 151
5-6	M. Pereiro	Imaging diodes and transistors with exchange magnons	p. 152
5-7	A. V. Sadovnikov	Spatio-temporal dynamics of magnetostatic waves in laterally coupled YIG films	p. 153
5-8	S. E. Sheshukova	Propagation characteristics of microwave signals through 2D magnonic crystal with high contrast	p. 154
5-9	S. L. Vysotsky	Micromagnetic simulation of spin wave excitations in magnonic crystals	p. 155
5-10	S. L. Vysotsky	Magnetostatic surface waves propagation in layered structure ferrite magnonic crystal - ferroelectric plate	p. 156

Section 6		Nonlinear spin-wave phenomena and relaxation processes	
6-1	M. A. Cherkasskii	Dark soliton formation processes in ferrite films and artificial multiferroics at terahertz frequency range	p. 157
6-2	M. Yu. Dianov	Modeling of excitation of microwave magnetoelastic oscillations in the three-layer structure	p. 158
6-3	A. P. Ivanov	Model of nonlinear magnetization vibrations in ferrite resonator connected with additional resonance system	p. 159
6-4	A. M. Gumerov	Simulation of nonlinear dynamics of the domain walls in magnetic with modulation of the parameter of the magnetic anisotropy	p. 160
6-5	T. E. Krenkel	Spin-waves in Mobius lattice	p. 161
6-6	A. V. Kondrashov	Broadband stationary and chaotic spin-wave excitation in resonant ring based on metalized ferrite film	p. 162
6-7	M. P. Lasek	Microwave current power dissipation and spin excitation in composite granular films $(\text{Co}_{45}\text{Ni}_{45}\text{Zn}_{10})_x(\text{SiO}_2)_y$	p. 163
6-8	V. V. Men'shenin	Magnetic transition from paramagnetic to incommensurate structure in RMn_2O_5 multiferroics: renormalization group analysis of critical behavior	p. 164
6-9	M. Morozova	Gap solitons formation in 1D finite magnonic crystals (model and experiment)	p. 165
6-10	E. S. Pavlov	Propagation of nonlinear magnetostatic surface spin waves in 1D ferrite magnonic crystal with structural defect	p. 166
6-11	P. Pirro	Spin-wave instabilities in micro-structured $\text{Co}_2\text{Mn}_{0.6}\text{Fe}_{0.4}\text{Si}$ waveguide	p. 167
6-12	V. I. Shcheglov	Nonlinear second order magnetization precession in anisotropy medium	p. 168
6-13	V. I. Shcheglov	Nonlinear excitation of hypersound in bilayer ferrite structure	p. 169
6-14	V. S. Vlasov	Investigation of regimes of nonlinear magnetoelastic oscillations in the ferrite layer	p. 170

International Symposium Spin Waves 2013
Poster Session Program

Monday, June 10

18.00-20.00

Section 7		Novel probes of magnetism: THz, X-ray, neutron, etc.	
7-1	A. V. Drozdovskii	Spin-wave self-modulation instability in forbidden zones of magnonic crystals	p. 171
7-2	V. V. Fedorov	Soft X-ray studies of magnetic proximity effects in Co/NiF ₂ bilayers	p. 172
7-3	M. Kajnakova	Exchange bias associated with phase separation in perovskite manganite Nd _{2/3} Ca _{1/3} MnO ₃	p. 173

Section 8		Spin-torque effects: oscillators, switching, DW motion	
8-1	Yu. Dzhezherya	Magnetization reversal of synthetic antiferromagnets using magnetic field pulse perpendicular to reference plane	p. 174
8-2	R. M. Farzetdinova	Two-stage remagnetization of ferromagnetic films	p. 175
8-3	T. Janda	Observation of the optical spin-transfer torque and the optical spin-orbit torque in GaMnAs	p. 176
8-4	G. M. Mikhailov	Circular magnetization switching in epitaxial Fe(001) microstructures by spin-polarized current	p. 177
8-5	V. M. Sarnatsky	High frequency ultrasound generation by thin yttrium iron garnet films	p. 178
8-6	G. Viaud	Magnetization oscillations in ferromagnetic heterostructures with voltage-controlled magnetic anisotropy	p. 179