THE INTERNATIONAL CONFERENCE

SPIN PHYSICS, SPIN CHEMISTRY AND SPIN TECHNOLOGY

PROGRAM

KAZAN 1-5 NOVEMBER 2011


SPIN PHYSICS · SPIN CHEMISTRY · SPIN TECHNOLOGY
NOVEMBER · 2011 · KAZAN · RUSSIA

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PROGRAM OF THE
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CONFERENCE LOCATION

The Academy of Sciences of the Republic of Tatarstan
ul. Baumana 20, Kazan

TIME SCHEDULE

TUESDAY, November 1-st, 2011

09:00	Registration
11:00–13:00	Excursion
14:00–15:40	Zavoisky Award Ceremony
15:40–16:20	Lecture of the Zavoisky Awardee 2011
16:20–16:40	Coffee Break
16:40–18:40	Plenary Lectures
19:00	Welcome Party

WEDNESDAY, November 2-nd, 2011

09:00–13:00	Scientific Program
13:00–14:30	AMR Meeting
14:30–18:00	Scientific Program
19:00	Culture Program

THURSDAY, November 3-rd, 2011

09:00–18:00	Scientific Program
18:30	Concert in Honor of the 75-th Anniversary of Kev Salikhov

FRIDAY, November 4-th, 2011

09:00–18:00	Scientific Program
19:00	Conference Dinner

SATURDAY, November 5-th, 2011

09:00–13:00	Scientific Program
13:00	Closing Session

SCIENTIFIC PROGRAM

TUESDAY, November 1-st, 2011

09:00 Registration (The Academy of Sciences of the Republic of Tatarstan, ul. Baumana 20)

Hall A
Plenary Session
Chair: *K. M. Salikhov*

15:40 *S. Yamauchi*: Time-Resolved EPR Studies in the Electronically Excited States
16:20 Coffee Break
16:40 *W. Lubitz*: In Search of Renewable Energy Resources: Mechanisms of Light-Induced Water Splitting and Hydrogen Production in Nature Studied by Advanced EPR Techniques
17:20 *V. V. Ryazanov*: Physics and Applications of Superconductor-Ferromagnet Phase Inverters in Superconducting Electronics and Spintronics
18:00 *J. Freed*: Molecular Dynamics in Proteins and Membranes by Multi-Frequency ESR
19:00 Welcome Party

WEDNESDAY, November 2-nd, 2011

Hall A
Plenary Session
Chair: *L. R. Tagirov*

09:00 *B. Büchner*: Intrinsic Inhomogenities in Spin Correlated Solids as Revealed by Magnetic Resonance
09:40 *A. V. Vedyayev, N. V. Strelkov, N. V. Ryzhanova, M. Chshiev, B. Dieny*: Spin as an Itinerant Carrier of Information
10:20 *D. Gatteschi, M. Fittipaldi, C. Sangregorio, L. Sorace, L. Castelli*: EMR To Investigate the No Man's Land between Molecular Nanomagnets and Magnetic Nanoparticles
11:00 Coffee Break

Hall A
Symposium: Electron Spin-Based Methods for Electronic and Spatial Structure Determination in Physics, Chemistry and Biology (S1)
Chair: *M. S. Tagirov*

Invited Talks
11:30 *A. V. Yurkovskaya, O. B. Morozova*: Time-Resolved CIDNP as a Tool To Study Inter- and Intramolecular Electron Transfer Reactions
12:00 *A. J. Fielding, F. Brodhun, Ch. Koch, R. Pievo, V. Denysenkov, I. Feussner, M. Bennati*: Multifrequency Electron Paramagnetic Resonance Characterization of PpoA, a CYP450 Fusion Protein that Catalyses Fatty Acid Dioxygenation

Oral Talks
12:20 *A. G. Maryasov, M. K. Bowman*: Spin Dynamics and Bloch Equations for Paramagnetic Centers with Spin 1/2 Having Anisotropic *g*-Tensor
12:40 *V. F. Tarasov, D. Akhmetzyanov, A. Konovalov, E. Zhiteitcev, E. Zharikov*: Structure and Magnetic Properties of Chromium Impurity Ions as Studied by Multifrequency EPR

Hall B
Symposium: Spins in Low-Dimensional Structures (S2)
Chair: *A. A. Bukharaev*

Invited Talks
11:30 *S. A. Tarasenko*: Spin Dephasing of Conduction Electrons in High-Mobility Quantum Wells
12:00 *A. V. Sekretenko, A. V. Larionov, A. I. Il'in*: Electron Spin Dynamics in a GaAs Quantum Well with a Controllable Lateral Confiinement

Oral Talk
12:30 *A. M. Ziatdinov*: Conduction Electron Spin Resonance in Two-Dimensional Systems
13:00 Lunch

Hall A
Symposium: Electron Spin-Based Methods for Electronic and Spatial Structure Determination in Physics, Chemistry and Biology (S1)
Chair: *V. Kataev*

Invited Talks
14:30 *M. Tagirov*: Magnetic Properties of PrF_3 Nanoparticles and Microparticles at Low Temperatures
15:00 *H. Matsuoka, J.-R. Shen, A. Kawamori, Y. Ohba, S. Yamauchi*: Multifrequency EPR on Single Crystals of Photosystem II
15:20 *B. Dzikovski, D. Tipikin, J. Freed*: Location, Conformation and Aggregation of PC Spin Labels in the Gel Phase Lipid Bilayers by Multifrequency ESR

Oral Talk
15:40 *R. V. Yusupov, I. N. Gracheva, A. A. Rodionov, P. P. Syrnikov, A. Dejneka, A. I. Gubaev, V. A. Trepakov, M. Kh. Salakhov*: Photo-EPR Studies of KTN-1.2: Evidences of the Nb^{4+}-O–Polaronic Excitons

Hall B
Symposium: Development of Magnetic Resonance (S4)
Chair: *V. F. Tarasov*

Invited Talk
14:30 *V. A. Atsarkin, V. V. Demidov*: Electron Magnetic Resonance and Conductivity around the Curie Point

Oral Talks
15:00 *K. A. Earle*: Quasioptical Techniques for High Field EPR: Opportunities, Perspectives, and Challenges
15:20 *Yu. Grishin, A. Savitsky, R. Rakhmatullin, E. Reijerse, W. Lubitz*: Improved Probehead for Pulse High Field/High Frequency EPR Spectroscopy
15:40 *I. Gromov, P. Höfer, D. Schmalbein*: Novel Millimeter Wave EPR System ELEXSYS E780 (Bruker): Design and Performance
16:00 Coffee Break

Hall A
Symposium: Spin-Dependent Processes in Nanostructures (S3)
Chair: *G. Kothe*

Invited Talks
16:30 *N. V. Volkov, E. V. Eremin, M. V. Rautskiy, D. A. Smolyakov*: Interplay between Spin-Polarized Current and Spin Dynamics in Magnetic Nanostructures: Microwave Detection
17:00 *A. Bukharaev, N. Nurgazizov, D. Biziaev, D. Lebedev, A. Chuklanov, I. Shakirov, T. Khanipov*: Fabrication of Magnetic Nanostructures for the Investigation of Spin-Dependent Transport Phenomena

Oral Talks
17:20 *S. N. Vdovichev, A. A. Fraerman, B. A. Gribkov, S. A. Gusev, I. R. Karetnikova, A. Yu. Klimov, V. L. Mironov, I. M. Nefedof, V. V. Rogov, N. K. Vdovicheva, I. A. Shereshevskii*: Tunnel Magnetoresistance and Peculiarity of Magnetization Process of Multilayer Ferromagnetic Nanoparticles
17:40 *V. A. Morozov, N. N. Lukzen*: Cooperative Spin Crossover Phenomena in Elastic Chains of Exchange Clusters. Transfer Matrix Approach

Hall B
Symposium: Development of Magnetic Resonance (S4)
Chair: *A. M. Ziatdinov*

Invited Talk
16:30 *H. Ohta, S. Okubo, T. Kobayashi, T. Sakurai, A. Matsuo, K. Kindo, X. G. Zheng, S. Nishihara, M. Fujisawa, H. Kikuchi*: Application of THz High-Field EMR to Antiferromagnets with THz Spin Gaps

Oral Talks
17:00 *N. Akdoğan*: Studying Spintronics Materials with Synchrotron Radiation
17:20 *A. I. Kokorin, E. A. Konstantinova*: Structures and Properties of Nitrogen-Doped TiO_2 Studied by EPR Spectroscopy
17:40 *A. V. Klochkov, E. M. Alakshin, R. R. Gazizulin, V. V. Kuzmin, M. S. Tagirov, D. A. Tayurskii*: Spin Kinetics of ^{3}He in Porous Substrates
19:00 Culture Program

THURSDAY, November 3-rd, 2011

Plenary Session
Chair: *Yu. D. Tsvetkov*

09:00 *K. Möbius, A. A. Dubinskii, M. Flores, W. Lubitz, A. Savitsky*: Spin-Polarized Radical-Pair States in Photosynthesis: Characterization of Transient Conformational Changes by High-Field Dipolar EPR Spectroscopy
09:40 *D. Goldfarb*: Nanometer Scale Distance Measurements in Proteins and Nucleic Acids Using Gd^{3+} Spin Labeling
10:20 *S. A. Dzuba*: EPR Probing of Nanoscale Dynamics in Molecular Disordered Systems
11:00 Coffee Break

Hall A
Symposium: Electron Spin-Based Methods for Electronic and Spatial Structure Determination in Physics, Chemistry and Biology (S1)
Chair: *V. A. Atsarkin*

Invited Talks
11:30 *E. Bagryanskaya, M. Fedin, S. Veber, V. Ovcharenko, H. Mazuoka, S. Yamauchi*: Thermal and Optical Switching of the Exchange Interactions in Nitroxide-Copper(II)-Nitroxide Clusters
12:00 *M. K. Bowman, P. R. Vennam, M. Krzyaniak, A. G. Maryasov*: Dipolar Interactions for the Determination of Macromolecular Structure
12:20 *M. Brustolon, A. Collauto, A. Barbon*: Nitronyl Nitroxides as Spin Probes?
12:40 *T. V. Leshina, I. M. Magin, N. E. Polyakov, E. A. Khramtsova, A. I. Kruppa*: Spin Chemistry Investigation of Peculiarities of Photoinduced Electron Transfer in Donor-Acceptor Linked System

Hall B
Symposium: Magnetic States and Transport Properties (S5)
Chair: *Yu. G. Kusrayev*

Invited Talks
11:30 *A. A. Fraerman*: Noncollinear Magnetic States and Transport Properties of Ferromagnetic Nanostructures

12:00 *A. S. Mel'nikov, A. I. Buzdin, N. G. Pugach*: Domain Walls and Long-Range Triplet Correlations in SFS Josephson Junctions

Oral Talks

12:20 *O. L. Ermolaeva, B. A. Gribkov, S. A. Gusev, A. Yu. Klimov, V. L. Mironov, V. V. Rogov, O. G. Udalov, A. A. Fraerman*: Magnetic States in Cross-Like Nanomagnets

12:40 *S. S. Sosin, L. A. Prozorova, O. A. Petrenko, M. E. Zhitomirsky*: Spin Dynamics of Heisenberg and XY Pyrochlore Magnets Studied by ESR

13:00 Lunch

Hall A

Symposium: Electron Spin-Based Methods for Electronic and Spatial Structure Determination in Physics, Chemistry and Biology (S1)

Chair: *H. Ohta*

Invited Talks

14:30 *G. I. Likhtenshtein*: Spin-Spin Interactions in Investigation of Structure and Dynamics Biological Molecules

15:00 *Y. Kobori, M. Fuki*: Orientational Structures and Electronic Couplings of Photoinduced Charge-Separated States in Human Proteins

Oral Talks

15:20 *U. Eichhoff, P. Höfer*: Recent Developments in MR- and EPR-Imaging

15:40 *V. R. Gorelik, V. F. Tarasov, Yu. A. Zakharova, E. G. Bagryanskaya:* Electron Spin Polarized Nitroxide Radicals as Alternative Spin Probes for Inhomogeneity of Molecular Aggregates

Hall B

Russian-German Workshop: Phase Coexistence and Competition (W1)

Chair: *V. Kataev*

Invited Talks

14:30 *B. Büchner*: Ferromagnetism and Superconductivity in LiFeAs

15:00 *K. I. Kugel, A. O. Sboychakov, A. L. Rakhmanov, D. I. Khomskii*: Magnetic Inhomogeneities in Doped Materials with Spin-State Transitions

Oral Talks

15:30 *A. Alfonsov, R. Zahn, G. Lang, F. Lipps, V. Kataev, S. Aswartham, S. Wurmehl, J. S. Kim, J. Deisenhofer, H.-A. Krug von Nidda, A. Loidl, B. Büchner*: High Field ESR Spectroscopy on Fe-Based Superconductors

15:45 *L. Salakhutdinov, Yu. Talanov, G. Teitel'baum, T. Adachi, T. Noji, Y. Koike, R. Khasanov*: EPR Study of Local Magnetic Fields on the $Bi_2Sr_2Ca_{1-x}Y_xCu_2O_{8+y}$ Single Crystal Surface above T_c

16:00 Poster Session

18:30 Concert in Honor of the 75-th Anniversary of Kev Salikhov

FRIDAY, November 4-th, 2011

Hall A
Plenary Session
Chair: *N. V. Volkov*

09:00 *I. V. Koptyug, K. V. Kovtunov, V. V. Zhivonitko, I. V. Skovpin, D. A. Barskiy, R. Z. Sagdeev*: Parahydrogen-Induced Polarization and Heterogeneous Catalysis

09:40 *Yu. G. Kusraev*: Spin Relaxation in Semiconductors and Semiconductor Nanostructures

10:20 *A. V. Dvurechenskii, A. F. Zinovieva, A. V. Nenashev*: Spins in Low-Dimensional Quantum Dot Semiconductor Nanostructures

11:00 Coffee Break

Hall A
Symposium: Spin-Based Information Processing (S6)
Chair: *M. Brustolon*

Invited Talks

11:30 *S. Nakazawa, K. Sato, T. Yoshino, S. Nishida, R. Rahimi, T. Ise, N. Mori, Y. Morita, K. Toyota, D. Shiomi, K. Nakasuji, M. Kitagawa, H. Hara, P. Carl, P. Höfer, T. Takui*: Molecular-Spin Based Quantum Computing and Quantum Information Processing

12:00 *G. Kothe, T. Yago, J.-U. Weidner, G. Link, M. Lukaschek, T.-S. Lin*: Nuclear Spin Polarization and Spin Entanglement in Photoexcited Triplet States

Oral Talks

12:20 *G. Mazzeo, E. Prati, M. Belli, G. Leti, S. Cocco, M. Fanciulli, F. Guagliardo, G. Ferrari*: Charge and Spin Dynamics of a Single Donor Coupled to an SET in Silicon

12:40 *S. A. Moiseev, S. N. Andrianov, F. F. Gubaidullin*: Quantum Memory on Electron Spins in Resonator

Hall B

Russian-German Workshop: Low-D Quantum Magnets and Frustrated Magnets I (W3)

Chair: *R. Klingeler*

Oral Talks

11:30 *E. Vavilova*: Five Years of Kazan-Dresden Collaboration: Achievements and Challenges

11:45 *V. Bisogni, L. Braicovich, G. Ghiringhelli, M. Moretti Sala, N. B. Brookes, L. Simonelli, R. Kraus, C. Monnay, K. Zhou, T. Schmitt, J. van den Brink, B. Büchner, J. Geck*: Resonant Inelastic X-ray Scattering: a New Approach for Investigating Spin Excitations

12:15 *H. Mäeter, A. A. Zvyagin, H. Luetkens, G. Pascua, Z. Shermadini, R. Saint-Martin, A. Revcolevschi, C. Hess, B. Büchner, H.-H. Klauss*: Low Temperature Ballistic Spin Transport in the $S = 1/2$ Antiferromagnetic Heisenberg Chain Compound $SrCuO_2$

12:30 *E. Zvereva, O. Savelieva, V. Nalbandyan, M. Evstigneeva, L. Medvedeva, A. Wolter, J.-Y. Lin, A. Vasiliev, R. Klingeler, B. Büchner*: Spin Dynamics in New Honeycomb-Layered Antimonates of Alkali and Transition Metals

12:45 *R. F. Mamin*: Charge Segregation and Phase Separation in Manganites and the Possibility of Multiferroic Behavior

13:00 Lunch

Hall A

Symposium: Spin-based information processing (S6)

Chair: *I. V. Ovchinnikov*

Invited Talks

14:30 *B. Aktaş, R. Topkaya, M. Erkovan, M. Özdemir*: Magnetic Properties of Exchange-Coupled Py/Cr/Py Films

15:00 *E. B. Fel'dman*: Quantum Entanglement and Quantum Discord in Multiple Quantum NMR in Solids

Oral Talks

15:20 *A. A. Soltamova, V. A. Soltamov, P. G. Baranov*: Competition between Two Spin Teams: Defects in Diamond vs Defects in Carborundum

15:40 *V. A. Nadolinny, Yu. N. Palyanov, I. N. Kupriyanov, M. E. Newton, S. L. Veber*: EPR Data on the Transformation of As-Grown Phosphorus Centers in Synthetic Diamonds at the HTHP Treatment

16:00 Coffee Break

Hall B

Russian-German Workshop: Physics of Interfaces and Nanomagnets (W5)

Chair: *I. Garifullin*

Invited Talks

14:30 *M. Farle*: Visualization of Spin Dynamics and Magnetic Hysteresis in Single Nanosized Magnetic Elements

15:00 *L. R. Tagirov, R. G. Deminov, O. V. Nedopekin, Ya. V. Fominov, M. Yu. Kupriyanov, T. Yu. Karminskaya, A. A. Golubov*: Superconducting Triplet Spin Valve Based on the Superconductor-Ferromagnet Proximity Effect

Oral Talks

15:30 *P. V. Leksin, N. N. Garif'yanov, I. A. Garifullin, J. Schumann, V. Kataev, O. G. Schmidt, B. Büchner*: Experimental Realization of the Spin Switch Effect for the Superconducting Current in a Superconductor/Ferromagnet Thin Film Heterostructure

15:45 *A. Useinov*: Tunnel Magnetoresistance in Double-Barrier Planar Magnetic Tunnel Junctions

16:00 *T. Mühl, S. Vock, J. Körner, F. Wolny, V. Neu, A. Leonhardt, B. Büchner*: Monopole-Like Probes for Magnetic Force Microscopy

Hall A
Symposium: Spin-Dependent Properties of Semiconductors (S7)
Chair: *T. Takui*

Invited Talks

16:30 *E. S. Demidov, E. D. Pavlova, A. I. Bobrov, V. V. Podolskii, V. P. Lesnikov, M. V. Sapozhnikov, B. A. Gribkov, S. N. Gusev, S. A. Levchuk, V. V. Karzanov*: Structure and Magnetotransport Properties of Deposited From Laser Plasma Nanosized Layers of the High-Temperature Diluted Magnetic Semiconductor Si:Mn

17:00 *M. Fanciulli, A. Vellei, C. Canevali, D. Rotta, M. Basini, S. Paleari*: Electrically Detected Magnetic Resonance Characterization of Silicon Nanowires

17:20 *M. Belli, M. Fanciulli, N. V. Abrosimov*: Pulse Electron Spin Resonance Investigation of Bismuth-Doped Silicon

Oral Talk

17:40 *A. A. Bloshkin, A. I. Yakimov, A. V. Dvurechenskii*: Singlet-Triplet Energy Splitting and Entanglement of Two Holes in Double Ge/Si Quantum Dots

Hall B
Russian-German Workshop: Molecular Magnets (W2)
Chair: *B. Büchner*

Invited Talk

16:30 *V. Kataev*: High Field Sub-Terahertz ESR Spectroscopy on Molecular Magnets

Oral Talks

17:00 *I. A. Bezkishko, V. A. Miluykov, O. N. Kataeva, O. G. Sinyashin, P. Lonnecke, E. Hey-Hawkins, Yu. Krupskaya, V. Kataev, R. Klingeler, B. Büchner*: Magneto-Structural Correlations of 1,2-Diphosphacyclopentadienide Transition Metal Complexes

17:15 *V. S. Iyudin, Yu. E. Kandrashkin, V. K. Voronkova, V. S. Tyurin, E. N. Kirichenko, Yu. P. Yaschuk*: Spin-Spin Interactions and Electron Spin Polarization in Systems Based on Metalloporphyrins

17:30 *Yu. Krupskaya, F. Moro, V. Kataev, T. C. Stamatatos, G. Christou, A. J. Tasiopoulos, J. van Slageren, B. Büchner*: Classical versus Quantum Magnetism in Singe Molecular Magnetic Complexes

17:45 *R. Zaripov, E. Vavilova, Y. Krupskaya, A. Parameswaran, V. Miluykov, I. Bezkishko, D. Krivolapov, O. Kataeva, O. Sinyashin, E. Hey-Hawkins, V. Voronkova, K. Salikhov, R. Klingeler, V. Kataev, B. Büchner*: Relaxation Study of Novel Binuclear Mn Molecular Complexes by Pulse EPR Techniques

Hall C

16:30 Selection of Works within the Program of the Fund "U.M.N.I.K."

19:00 Conference Dinner

SATURDAY, November 5-th, 2011

Hall A

Symposium: Spin-Dependent Processes in Nanostructures (S3)

Chair: *P. A. Purtov*

Oral Talks

09:00 *B. Rameev*: Magnetic Resonance Studies of Spintronic and Nanomagnetic Materials

09:20 *A. Talantsev, A. Dmitriev, S. Zaitsev, O. Koplak, R. Morgunov*: Effect of the Orientation of Substrate on Δ-<Mn>-Layer Magnetization and Photoluminescence of Quantum Well in InGaAs/GaAs Heterostructures

Invited Talks

09:40 *L. Weiner*: Generation and Oxidation of Nitroxyl Radicals by Ruthenium Complexes: A Novel ESR Approach to the Study of Photoelectron Transfer

10:00 *A. K. Powell*: Spin Mapping of Iron-Containing Coordination Clusters Using Mössbauer Spectroscopy

Hall B
Russian-German Workshop: Low-D Quantum Magnets and Frustrated Magnets II (W4)
Chair: *K. Kugel*

Invited Talks
09:00 *R. Klingeler, S. Nishimoto, S.-L. Drechsler, R. Kuzian, J. Malek, J. Richter, W. E. A. Lorenz, N. Wizent, J. van den Brink, Y. Skourski, B. Büchner*: The Frustrated Quasi-1D Quantum Antiferromagnet Li_2CuO_2
09:30 *S.-L. Drechsler, S. Nishimoto, R. Kuzian, J. Malek, J. Richter, J. van denBrink, R. Klingeler, W. E. A. Lorenz, A. Wolter, B. Büchner, M. Schmitt, H. Rosner*: Topical Magnetic and Electronic Properties of Frustrated Edge-Shared Chain Cuprates

Oral Talks
10:00 *T. Vasilchikova, T. Kuzmova, A. Kamenev, O. Volkova, A. Kaul, R. Klingeler, B. Büchner, A. Vasiliev*: The Interrelation of Various Temperature Dependent Contributions to Magnetization in $Eu_{1-x}Ca_xCoO_{3-\delta}$ Solid Solutions
10:15 *N. Hlubek, P. Ribeiro, R. Saint-Martin, S. Singh, A. Revcolevchi, G. Roth, G. Behr, B. Büchner, C. Hess*: Magnetic Heat Transport in One-Dimensional Quantum Antiferromagnets
10:30 Coffee Break

Hall A
Plenary Session
Chair: *M. Bowman*

11:00 *V. V. Ustinov, M. A. Milyaev*: Spin Valves with Giant Magnetoresistance
11:40 *I. A. Garifullin*: Spin-Polarized Electrons in Superconductor/Ferromagnets Hybrid Structures
12:20 *T. A. Prisner*: Enhanced Sensitivity in EPR and NMR: New Experimental Developments and Biomolecular Applications
13:00 Closing Session

POSTER SESSION

1. *M. M. Akhmetov, G. G. Gumarov, V. Yu. Petukhov, G. N. Konygin, D. S. Rybin, E. P. Zheglov*: Influence of Admixtures on the Formation of Paramagnetic Centers in Calcium Gluconate at Mechanoactivation
2. *A. Alfonsov, C. G. F. Blum, O. Volkonskyi, S. Rodan, D. Bombor, C. Hess, A. Wolter, S. Wurmehl, B. Büchner*: Optimization of Heusler Compounds via Control of the Relations between Structure and Physical Properties
3. *T. S. Altshuler, Y. V. Goryunov, A. V. Levchenko, A. N. Nateprov*: Electron Spin Resonance in Eu-Based Antiferromagnetic Compounds
4. *O. Antonova*: Influence of UV Irradiation on EPR and Optical Spectra of Tetraphenylborate Salts
5. *M. Bakirov, K. Salikhov, B. Bales*: EPR Investigation of Heisenberg Spin Exchange and Dipole Dipole Interactions in Diluted Free Radicals
6. *A. A. Bayazitov, K. S. Saikin, Ya. V. Fattakhov*: Transceiver System for NMR Tomography, Sensor "Joint"
7. *N. E. Domracheva, A. V. Pyataev, M. S. Gruzdev*: EMR Detection of Presumable Suhl's Instability in Magnetic γ-Fe_2O_3 Nanoparticles Encapsulated into PPI Dendrimer
8. *R. M. Eremina, T. P. Gavrilova, D. V. Mamedov, I. V. Yatsyk, Ya. M. Mukovskii*: ESR Spectra in Monocrystal and Thin Film GdMnO
9. *M. L. Falin, V. A. Latypov*: Magnetic Resonance of the Rare-Earth Impurity Centers in $CsCaF_3$ Single Crystal
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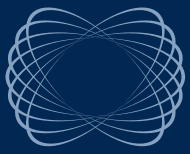

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