“MAGNETIC RESONANCE – CURRENT STATE AND FUTURE PERSPECTIVES” (EPR-80) | POSTER SESSIONS

	1. Spin physics and spin chemistry. Poster session
1-Po1	**M.M Bakirov, I.T. Khairutdinov , R.B. Zaripov, K.M. Salikhov:** The Dipole-Dipole Interaction Contribution to EPR Spectra of Nitroxyl Free Radical Solution
1-Po2	**E.E. Batueva, A.R. Sharipova, E.N. Frolova, O.A. Turanova, L.I. Savostina, R.B. Zaripov, A.N. Turanov:** New Fe(III) complexes of NNO tridentate ß-enaminone in solutions: EPR research and molecular docking
1-Po3	**E.E. Batueva, A.R. Sharipova, E.N. Frolova, A.A. Sukhanov, O.A. Turanova, A.N. Turanov:** Heptanuclear Fe(II)-Fe(III) complex as a multifunctional magnetic material
1-Po4	**A.A. Evseev, I.I. Gumarova, O.V. Nedopekin:** Ab initio investigation of rashba splitting heterostructures for spintron applications
1-Po5	**I.I. Gimazov, D.E. Zhelezniakova, Yu.I. Talanov:** Impact of spin correlations on resistivity and microwave absorption of iron pnictides doped with cobalt
1-Po6	**A.M. Zyuzin, K.E. Igonchenkova, A.A. Karpeev, N.V. Yantsen, S.S. Gostyushov:** EPR in polymer composites with carbon black
1-Po7	**Zh.K. Pulotov, A.K. Kadikova, B.F. Gabbasov, I.V. Yanilkin, A.I. Gumarov, A.G. Kiiamov, L.R. Tagirov, R.V. Yusupov:** Magnetoresonant properties and spin-Hall effects in epitaxial Pd(1-x)Fe(x) and Pd(1-x)Fe(x)/Pt structures
1-Po8	**V.O. Sakhin, E.F. Kukovitsky, I.I. Gimazov, A.A. Kamashev, N.N. Garif’yanov, Yu. I. Talanov:** Magnetotrasport investigation of Pb/Bi1.08Sn0.02Sb0.9Te2S heterostructures
1-Po9	**A.I. Shamsieva, I.I. Gumarova:** Computer design of new organic materials for metal-ion batteries
1-Po10	**A.V. Shestakov, Z.Y. Seidov, I.V. Yatsyk, A.S. Ovchinnikov, F.G. Vagizov, V.A. Shustov, A.G. Badelin, V.K. Karpasyuk, H.-A. Krug von Nidda, R.M. Eremina:** Observation of a griffiths phase and analysis of the critical exponents in the magnetic behavior of La0.7Sr0.3Mn0.9Fe0.1−xZnxO3 (x = 0.05, 0.075, 0.1)
1-Po11	**A.V. Shestakov, I.I. Fazlizhanov, R.M. Eremina, S.V. Demishev, V.V. Rodionova, V.G. Kolesnikova:** High temperature esr absorption of $Fe_{45}Co_{30}Si_{10}B_{15}$ microwire
1-Po12	**S.V. Demishev, A.V. Shestakov, I.V. Yatsyk, R.M. Eremina, A.V. Semeno, S.V. Grigoriev:** Study of low-temperature spin fluctuation transition in the conical phase of MnSi and anisotropy features
1-Po13	**D.V. Starichenko, V.E. Vorobeva, M.S. Gruzdev, U.V. Chervonova, A.S. Volegov, I.V. Yatsyk:** Comprehensive study of magneto-resonance properties of dendrimer metal complexes of polydentate N,O-ligands using the example of a new Fe3+ ß-diketonate
1-Po14	**A. A. Sukhanov, V. V. Bazarov, V. F. Valeev, V. I. Nuzhdin, R. I. Khaibullin:** Ferromagnetic resonance in Co-ions implanted SnO2 films: Effects of oxygen vacancies
1-Po15	**N.Kh. Useinov:** Resonance conductance of electrons on interfaces of magnetic tunnel junction
1-Po16	**V. Voronkova, A. Sukhanov, A. Mambetov, Jianzhang Zhao:** Electron Spin Polarization Dynamics of the Photoexcited Triplet States of the organic chromophores and donor-acceptor Dyads: Analysis of the TREPR spectra Evolution
1-Po17	**A.M. Zyuzin, K.E. Igonchenkova, A.A. Karpeev, N.V. Yantsen,S.S. Gostyushov:** Effect of carbon black content on the EPR linewidth in a composite based on an ethylene vinyl acetate matrix EPR
1-Po18	**R.B. Zaripov, Yu.E. Kandrashkin:** ESEEM study of Y3N@C80 under photoexcitation
1-Po19	**R.B. Zaripov, V.A. Ulanov, R.R. Zainullin:** EPR study of iron impurities in BaF2 single crystal under X-ray irradiation
	2. Advances in magnetic resonance theory and instrumentation. Poster session

2-Po1	**A.V. Bogaychuk:** Cylindrical and sphere Halbach magnet arrays
2-Po2	**D.S. Ivanov, A.N. Afanas'eva, V.D. Skirda:** Peculiarities of pore space investigation by nmr relaxometry and cryoporometry methods
2-Po3	**I.T. Khairutdinov, R.B. Zaripov, M.M. Bakirov, M. Yu. Volkov:** Simulation of CPMG Sequence Echo Signals with Gaussian Pulse Shape
2-Po4	**D. Ramírez-Rosales, J. Vazquez-Samperio, S.N. Arellano-Ahumada, M. A. Martínez-Cruz, I. González:** Electrochemical test cell for in situ and in operando EPR characterization of Li-ion insertion battery electrodes
2-Po5	**K.O. Sannikov, A.V. Klochkov, D.G. Zverev, P. Mampua:** Low temperature NMR probe with variable frequency
2-Po6	**A.V. Tuckachev, A.S. Alexandrov, D.L. Melnikova, V.D. Skirda:** The promises of low-field magnetic resonance imaging
2-Po7	**A.L. Valiullin, V.D. Skirda, D.S. Ivanov, A.S Alexandrov, O.I. Gnezdilov, M.M. Doroginizky, T.A. Kazbaev:** Development of a software product for design gradient systems in nuclear magnetic resonance equipment
	3. Magnetic resonance of the solid state: from crystals to quantum dots. Poster session
3-Po1	**A.M. Garaeva, F.F. Murzakhanov, E.I. Boltenkova, G.V. Mamin and E.M.Alakshin:** Surface and volume centers in LaF3 particles
3-Po2	**T.P. Gavrilova, A.R. Yagfarova, O.I. Gyrdasova, I.V. Yatsyk:** Sorption-Oxidation Mechanism for the Removal of Arsenic (III) Using Cu-Doped ZnO
3-Po3	**A.K. Ginkel, O.A. Morozov, S.L. Korableva, M.S. Pudovkin, R.M. Rakhmatullin, A.A. Rodionov:** Effect of CO-doping Bi3+ in CeO2(0.1%Yb3+) nanoparticles
3-Po4	Goryunov Yuriy The Mn2+ EPR Study of Cd3P2 for the Topological tuning with 3D Dirac semimetal Cd3As2.
3-Po5	**A. S. Gurin, R. A. Babunts, A. V. Batueva, D. D. Kramushchenko, P. G. Baranov, D.Yu. Panov, V.A. Spiridonov, D.A. Bauman, A.E. Romanov:** Electron paramagnetic resonance investigations of ß -Ga2O3 single crystals doped with chromium
3-Po6	**Ö. Karataş, C. Okay, B. Özkal, S. Kazan, B.Z. Rameev, N. Cherkashin, E.M. Begishev, R.I. Khaibullin :** Magnetic anisotropy in rutile (TiO2) heavily implanted with cobalt ions: FMR, VSM and TEM studies
3-Po7	**E.K. Kovycheva, K.B. Tsiberkin, V.K. Henner:** Modelig the magnetic response ofa functionalized carbon structures
3-Po8	**M.L. Falin, V.A. Latypov, N.M. Khaidukov** :ESR of Yb3+ ion at cubic sites in Cs2NaScF6 crystals
3-Po9	**R. F. Likerov, I. V. Yatsyk, D. V. Popov, A. V. Shustov, R. M. Eremina:** 59Co centers in monoclinic Sc228SiO5 single crystal: CW EPR study
3-Po10	**G.V Mamin, F.F. Murzakhanov, I.N. Gracheva, M.R. Gafurov, V.A. Soltamov:** Electron nuclear double resonance of 14N nuclei coupled to the VB- defect in hBN crystals.
3-Po11	**F. F. Murzakhanov, G. V. Mamin, D. V. Shurtakova, M. A. Sadovnikova, E. N. Mokhov,O. P. Kazarova, M. R. Gafurov:** Optical Spin Initialization of Nitrogen Vacancy Centers in a 28Si-Enriched 6H-SiC Crystal for Quantum Technologies
3-Po12	**A.V. Nikitina, Yu.V. Bogachev, V.I. Zubkov, A.V. Solomnikova, S.M. Suharzevskiy:** Studies of stationary saturation of inhomogeneously broadened EPR lines of N-V centers in HPHT diamond
3-Po13	**G.S. Patrin, E.N. Volchenko, Ya.G. Shiyan, V.Yu. Yakovchuk, V,R. Churkin:** Influence of the interface on magnetic resonance in films of the Fe-Bi system
3-Po14	**G.S Patrin, Ya.G. Shiyan, V.A. Orlov,V.G.Plekhanov:** Long-range interlayer coupling in [(CoP)hard/(NiP)am/(CoP)soft]n structures
3-Po15	**G.S.Patrin, Ya.A. Vakhitova, Ya.G. Shiyan, A.V. Kobyakov, V.I. Yushkov:** Magnetic resonance studies of biquadratic interlayer coupling in CoNi/Si/FeNi films
3-Po16	**Podshivalov A.P., Bajtimirov D.R., Konev S.F., Ivanov D.V., Slesarev G.P.:** The influence of centrifugation on dosimetric properties of synthetized hydroxyapatite
3-Po17	**S.V. Demishev, A.V. Popov:** Combined equation of semiclassical spin dynamics and electron paramagnetic resonance
3-Po18	**Popov D.V., Batulin R.G., Yatsyk I.V., Maiti T., Eremina R.M :** Additional EPR line in Mn-containing double perovskites

3-Po19	**I.V. Romanova, S.V. Stazharova, R.G. Batulin, M.S. Tagirov, R.V. Yusupov: Synthesis and study of magnetic properties of [$La_{0.5}Dy_{0.5}$]ES AND [$La_{0.99}Dy_{0.01}$]ES COMPOUNDS**
3-Po20	**N.S. Saenko, N.I. Steblevskaya, M.V. Belobeletskaya, A.M. Ziatdinov:** Modeling of Magnetic Resonance Spectra of La1-xKxMnO3
3-Po21	**G.S. Shakurov, N.M. Lyadov, G.R. Asatryan, A.G. Petrosyan, K.L. Hovhannesyan :** Anti-site defects and trigonal center of holmium in Y3Al5O12:Ho3+ crystal according to the results of wideband EPR spectroscopy
3-Po22	**A. A. Shavelev , A. S. Nizamutdinov , A. A. Shakirov , S. L. Korableva , D. G. Zverev , A. A. Rodionov , E. V. Lukinova , V. V. Semashko :** Distribution of Ce3+ impurity centers in highly doped LiCaAlF6 crystals
3-Po23	**D.E. Zhelezniakova, I.I.Gimazov, K.S.Pervakov, V.A. Vlasenko, V.M.Pudalov, Y.I. Talanov :** ESR in EuEn2As2 crystals close to magnetic ordering temperature
	4. Magnetic resonance in chemical and biological systems. Poster session
4-Po1	**A.N. Afanaseva, D.S. Ivanov, V.D. Skirda:** Studying pore space of a core by nuclear magnetic resonance method
4-Po2	**M.M. Akhmetov, G.G. Gumarov, R.B. Zaripov, G.N. Konygin, D.S. Rybin:** W-band EPR of radicals in calcium gluconate
4-Po3	**V. V. Andrianov, G. G. Yafarova, L. V. Bazan, T. K. Bogodvid, A. I. Arslanov, M. M. Bakirov, N. G. Shayakhmetov, S. V. Yurtaeva, S. G. Pashkevich, T. A. Fillipovich, Kh. L. Gainutdinov**: Study by EPR spectroscopy of brain tissue samples in models with brain disorders
4-Po4	**M.A. Demekhin, A.A. Timralieva, A.I. Kokorin, E.V. Skorb**: DFT calculation as a tool to find c-centered radicals localization in supramolecular assemblies
4-Po5	**A.R. Gafarova, G.G. Gumarov, R.B. Zaripov, D.S. Rybin, G.N. Konygin**: Calcium free radical frormation at irradiation and mechanoactivation of calcium gluconate
4-Po6	**Galeev R.T., Zaripov R.B., Salikhov K.M.:** Study of biradicals by the transient nutation method
4-Po7	**M.I.Ibragimova, A.I. Chushnikov, I.V.Yatsyk, D.Kh.Khaibullina, G.G.Gumarov**: Identification of the signal with g ~ 6.0 in the X-band EPR spectra of human blood serum at 5-40 K
4-Po8	**D.L. Melnikova, I.V. Nesmelova, V.D. Skirda**: Translational diffusion features of an intrinsically disordered protein
4-Po9	**A.A. Petrova, G.V. Mamin, F.F. Murzakhanov, I.V. Fadeeva, A.A. Forysenkova, M.R. Gafurov:** EPR investigations of composite materials based on biocompatible polymers with calcium phosphates
4-Po10	**M.A. Sadovnikova, G.V. Mamin, F.F. Murzakhanov, M.A. Goldberg, N.V. Petrakova, V.S. Komlev, M.R. Gafurov**: Study of hydroxyapatite doped with rare earth ions by various EPR spectroscopy techniques
4-Po11	**E.I. Shamsiyarova, D.L. Melnikova, D.S. Ivanov, M.M. Doroginizky, V.D. Skirda:** Determination of water content in crude oil by nuclear magnetic resonance: problems and possible solutions
4-Po12	**A.R. Sharipova, E.N. Frolova, O.A. Turanova, L.V. Bazan, A.T. Gubaidullin, A.N. Turanov:** Effect of counterion on magnetic properties of the new Fe(III) complexes with a N2O tridentate ligand
4-Po13	**A. R. Sharipova, M. Yu. Volkov, O. A. Turanova:** Study of trans/cis isomerization of molecules of two 2-hydroxy-5-phenylazobenzaldehyde derivatives by NMR and UV spectroscopy
4-Po14	**Yu. Slesareva, M. Volkov, E. Vavilova, D.A. Astvatsaturov, N. Chumakova**: 1H NMR analysis of acetonitrile intercalated into the interplane space of graphite oxide
4-Po15	**A. S. Tarasov, S. V. Efimov, V. V. Klochkov**: Studying of paramagnetic affect of Dy3+ ion on the complex of cyclosporin C (CsC) and DPC micelle in aqueous solution determined by NMR spectroscopy
4-Po16	**A.A. Troshkina, D.S. Blokhin, V.V. Klochkov:** Structure of the amyloidogenic peptide SEM2(49-107) by NMR spectroscopy
4-Po17	**D.A. Tsukhlova, D.L. Melnikova, V.D. Skirda:** Features of nuclear magnetic relaxation in aqueous solutions of saccharides
4-Po18	**A.M. Uporova, U.A. Deeva, T.I. Chupakhina, R.M. Eremina, I.V. Yatsyk**: Investigation of Mn valence state in Sr2Ti1-xMnxO4 composition compounds by EPR method
4-Po19	**V. E. Vorobeva, D. V. Starichenko, M.S. Gruzdev, U.V. Chervonova, I.V. Yatsyk** : Magnetic and EPR properties of the second generation dendrimeric Fe3+ complexes with fluorescent

	environment
4-Po20	**J.D. Reyes, I.V. Yatsyk, R.M. Eremina, R.G. Batulin, T. Maiti:** Magnetic properties of perovskite type high entropy oxides
4-Po21	**R.I. Zaripova, G.G. Yafarova, V.V. Andrianov, M.I. Sungatullina, N.I. Ziyatdinova, Kh.L. Gainutdinov, T.L. Zefirov:** Effect of motor activity restriction on copper content in rat liver
	5. Spin-based information processing and optical quantum technologies. Poster session
5-Po1	**M.R. Arifullin, V.L. Berdinskiy:** Implementation of quantum logic by phase shift pulses and high-spin ions
5-Po2	**B.F. Farrakhov, Ya.V. Fattakhov, A.L. Stepanov, R.I. Batalov, V.V. Bazarov:** The silicon surface microstructures initiated by a powerful light pulse for increase the effectiency of a solar cells
	6. Applications of magnetic resonance in medical physics. Poster session
6-Po1	**A.A. Bayazitov, Ya.V. Fattakhov, V.L. Odivanov:** Development of a phase-adjusted radio-frequency solenoid sensor for medium-field magnetic resonance imaging system
6-Po2	**T.R. Islamov, O.V. Aganova, A.R. Julmetov, V.V. Klochkov:** Study of the interaction of lovastatin with a transition group metal - gadolinium in solution using NMR spectroscopy
6-Po3	**V.V. Kuzmin, G.A. Dolgorukov, A.S. Makarchenko**: Home-built set-up for NMR/DNP in stray field of superconducting magnet
6-Po4	**V.Odivanov, Y.Fattakhov, A.Fakhrutdinov, V.Shagalov, A.Bayazitov**: Targeting interface for MR imaging
6-Po5	**D. I. Silantyeva, V. V. Andrianov, G. G. Yafarova, L. V. Bazan, T. K. Bogodvid, A. I. Arslanov, I. B. Deryabina, L. N. Muranova, S. G. Pashkevich, T. A. Filipovich, V. A. Kulchitsky, Kh. L. Gainutdinov**: Investigation of NO and copper content in different segments of spinal cord 24 hours and 7 days after combined brain and spinal cord injury in rat with using the method EPR Spectroscopy
6-Po6	**S.V. Yurtaeva, G.G.Yafarova , I. V. Yatsyk, A.A.Rodionov, Kh.L. Gainutdinov :** EMR signals in rat spinal cord 7 days after its traumatic injury
	7. Mössbauer spectroscopy and its applications. Poster session
7-Po1	**A.F. Abdullin, E.V. Voronina:** First principles calculations of magnetic order of Fe-Al based ternary alloys
7-Po2	**N.I. Chistyakova, V.A. Pikhtereva, D.I. Komleva, M.V. Lesnaya, A.V.Semeno, O.A.Podosokorskaya, D.G. Zavarzina, V.S.Rusakov**: Mössbauer study of the minerals formed during synthesized ferrihydrite reduction by representatives of the melioribacteraceae family
7-Po3	**E.N. Dulov, M.T.R. Zaitov:** Mössbauer spectroscopy based on fast streaming analog to digital convertors
7-Po4	**K.V. Frolov, E.S. Smirnova, O.A. Alekseeva, E.V. Sidorova, I.A. Gudim:** Mossbauer spectroscopy of the rare earth ferroborates SmFe3-xMx(BO3)4 (M = Al, Sc)
7-Po5	**K.V. Frolov, O.A. Anosova, M.V. Kulikova, M.I. Ivantsov, A.Yu. Krylova, A.E. Kuzmin:** Mossbauer spectroscopy of Fe organic-derived composite fischer-tropsch catalysts obtained by the hydrothermal synthesis
7-Po6	**D. M. Kuzina, A.V. Pyataev, J. Gattacceca, C. Sadaka** : The weathering rate of Atacama meteorites studied by Mössbauer spectroscopy