

POSTER SESSION I (October 10, 2017)

FUNCTIONAL AND NANOSTRUCTURED MATERIALS

1. Aliyev Y. (Institute of Physics ANAS, Baku). Structural polymorphism in $\text{AgCuSe}_{0.5}(\text{S,Te})_{0.5}$.
2. Berezner A. (Tambov State University). Structural research of Pd bulk metallic glass and amorphous SiO_x film by neutron diffraction.
3. Craus M. (FLNP JINR, Dubna). Obtaining and comparative theoretical and experimental studies on the new manganites vanadium dopes.
4. Craus M. (FLNP JINR, Dubna). Electronic phases composition and its influence on transport characteristics of $\text{La}_{0.54}\text{Ho}_{0.11}\text{Sr}_{0.35}\text{Mn}_{1-x}(\text{Cu/V})_x\text{O}_3$ manganites.
5. Craus M. (National Institute of R&D for Technical Physics, Romania/ FLNP JINR, Dubna). Electromagnetic evaluation of carbon fiber reinforced plastics impacted under high temperatures.
6. Dashdemirov A. (Azerbaijan State Pedagogical University, Baku). Vibrational properties of $\text{CuFe}_{0.99}\text{Ni}_{0.01}\text{O}_3$.
7. Fedoseev M. (NRC «Kurchatov Institute» – CRISM «Prometey», St.-Petersburg). Combined research of carbide particle dimensions in high-strength steel.
8. Hashimov R. (Institute of Physics ANAS, Baku, Azerbaijan). First principles calculations of the electronic structure and density of states of barium manganite.
9. Huseynov R. (Institute of Physics ANAS, Baku, Azerbaijan). DTA and TGA study of the $\text{BaFe}_{12-x}\text{Al}_x\text{O}_{19}$ solid solutions.
10. Ivanshina O. (FLNP JINR, Dubna). The methodology of electrode manufacturing for operant diffraction investigations in FLNP JINR.
11. Iorga A. (INCDIE ICPE-CA, Bucharest). Structural changes investigations of electrical sheets M400 and M800 by neutron diffraction.
12. Jabarov S. (FLNP, JINR, Dubna). Structural and magnetic properties of $\text{La}_{0.7}\text{Ca}_{0.3}\text{Mn}_{0.5}\text{Fe}_{0.5}\text{O}_3$.
13. Jazdzewska M. (AMU Poznan, Poland/FLNP JINR, Dubna). Melting behavior and structure of ice confined in nanopores.
14. Kirillov A. (Institute for Physics of Mining Processes NANU, Dnipro, Ukraine,). Features of porous structure of coal of Donets basin derived from small-angle neutron scattering measurements at IBR-2.
15. Kopitsa G. (Petersburg Nuclear Physics Institute NRC KI, Gatchina). Morphology of nanostructured oxihydroxide of aluminum aerogels.
16. Kosiachkin Y. (FLNP JINR, Dubna). Effect of electrochemical cell parameters on the neutron reflectometry experiment.
17. Kuznetsov V. (FLNP JINR, Dubna). Application of neutron diffraction in microstructural studies of nanocrystalline nonstoichiometric niobium carbide powders.
18. Lushnikov S. (Moscow Lomonosov State University). Hydrogen redistribution in the hydrides of RT_3 (R-earth rare metals, T-Co, Ni, Rd) intermetallic compounds.
19. Nabiyev A. (ANAS Institute of Radiation Problems/ FLNP JINR, Dubna). Structural studies of $\text{HDPE}+\text{ZrO}_2$ nanocomposites by an use of small-angle neutron scattering.

20. Nagorna T. (FLNP JINR, Dubna). Cluster formation of fullerenes in polar/non-polar solvent mixtures.
21. Nagornyi A. (National Taras Shevchenko University of Kyiv, Ukraine/ FLNP JINR, Dubna). On determination of the core shell structure in composite magnetic nanoparticles by neutron and X-ray scattering.
22. Nefedov A. (Karlsruhe Institute of Technology, Germany). Neutron diffraction investigations on gas sorption processes of metal organic frameworks.
23. Nikova E. (Institute of Metal Physics, Ekaterinburg, Russia). A gadolinium reference layer in neutron reflectometry.
24. Recko K. (University of Bialystok, Poland). Fe - Ga - O nanosized solids solutions.
25. Rulev A. (MSU, Moscow). In situ monitoring of lithium electrodeposition using neutron reflectometry.
26. Rutkauskas A. (FLNP JINR, Russia). The effect of high pressure on magnetic structure of DyCo₂ intermetallic compound.
27. Salamatin D. (Institute for High Pressure Physics RAS, Troitsk). Incommensurate antiferromagnetism in the centrosymmetric cubic phases of REGe_{2.85} (RE = Tb, Dy).
28. Sikolenko V. (FLNP JINR, Dubna). Neutron diffraction study of Y-based layered complex cobalt oxides.
29. Skoi V. (FLNP JINR, Russia). Pressure jump as method for morphological changes of lipid?
30. Trusov L. (MSU, Moscow). Study of crystal and magnetic structure of highly aluminum doped strontium hexaferrites with giant coercivity.
31. Tsvigun N. (FSRC "Crystallography and Photonics" RAS, Moscow). Sol-gel synthesis of finely dispersed ZrTiO₄ and the evolution of its meso- and microstructure during thermal treatment.
32. Tsvyaschenko A. (Institute for High Pressure Physics, Moscow). The magnetic and electronic structures of the high-pressure cubic phase of DyGe_{2.85}.
33. Turchenko V. (FLNP JINR, Dubna). The crystal and magnetic structure of BaFe_{12-x}Ga_xO₁₉ (x= 0.1 – 1.2) in a wide temperature range.
34. Ushakov A. (Saratov State University, Saratov, Russia). Phase composition of the functional materials based on lithium pentatitanate and features of its behavior in lithium storage systems.
35. Valkov S. (Institute of Electronics, BAS, Sofia, Bulgaria). Study of the mechanical properties of gradient TiN/TiO₂ coatings deposited on Co-Cr and stainless steel by reactive magnetron sputtering.
36. Valkov S. (Institute of Electronics BUS, Sofia, Bulgaria). Study of the crystallographic structure and microstructure of Al-Ti-Nb alloys formed by selective electron beam alloying.
37. Vladikova D. (Institute of Electrochemistry and Energy Systems BUS, Sofia). Mixed ion conducting BCY15 based materials for reversible fuel cells.
38. Zakharchenko T. (MSU, Moscow). Analysis of Li-O₂ porous cathode discharge by means of small-angle neutron scattering.

DEVELOPMENT OF NEUTRON SCATTERING TECHNIQUES AND INSTRUMENTS

39. Kirilov A. (FLNP JINR, Dubna). Instrument control software at the IBR-2: directions of development.
40. Kruglov A. (FLNP JINR, Dubna). FSS diffractometer at the IBR-2 reactor: first experimental results.
41. Morkovnikov I. (FLNP JINR, Dubna). The application package for remote communication with the instruments at the IBR-2 reactor: status and plans.
42. Salamatov Yu. (Institute of metal physics UB RAS, Ekaterinburg). Neutron scattering characteristics of gadolinium thin film: experimental determination.
43. Stoliarov A. (INR RAS, Moscow). Project of epithermal neutron spectrometer based on pulsed neutron source «RADEX»(Troitsk).

POSTER SESSION II (October 11, 2017)

SOFT CONDENSED MATTER (BIOLOGICAL NANOSYSTEMS, LIPID MEMBRANES, POLYMERS)

44. Aleshina A. (Moscow State University, Moscow). Responsive gels formed by surfactant wormlike micelles and hydrophilic polymer.
45. Anghel L. (Institute of Chemistry of Academy of Sciences of Moldova, Chisinau, Moldova). Temperature and pH-dependent homo-association of beta-lactoglobulin studied by small angle neutron scattering technique.
46. Anitas E. (FLNP JINR, Dubna). Small-angle neutron scattering from biomagnetic materials based on iron particles, turmeric and silicone oil.
47. Aranghel D. (Horia Hulubei National Institute of Physics and Nuclear Engineering, Bucharest, Romania). Bovine type-I collagen studies by small-angle neutron scattering.
48. Artykulnyi O. (National University of Kyiv, Ukraine). Impact of poly (ethylene glycole) on the structure and interaction parameters of sodium oleate micellar system.
49. Balasoiu-Gaina A. (FLNP JINR, Dubna). On the structure of cobalt ferrite colloidal particles by means of SANS AND TEM investigations.
50. Cheremnykh T. (PNPI, Gatchina). The kinetics of RecA protein presynaptic complex formation by singular value decomposition of time-resolved small-angle scattering spectra.
51. Egorov V. (PNPI, Gatchina). Influenza NS1 protein fragment is able to form amyloid-like fibrils.
52. Gapchenko A. (MIPT, Dolgoprudnyi). Light-induced structure changes in Bacteriorhodopsin D96N by SAXS.
53. Gorshkova Yu.E. (FLNP JINR, Dubna). Complex investigation of the lithocholic acid structure in DMSO by small-angle neutron scattering, neutron and X-ray diffraction.

54. Jancura D. (Safarik University, Slovakia). Formation of complexes between photosensitizer hypericin and synthetic lipid-based nanoparticles and large unilamellar vesicles with various content of cholesterol.
55. Lebedev D. (PNPI, Gatchina). Changes in large-scale hierarchy and small-scale nucleosome arrangements of native chromatin induced by molecular crowding agents.
56. Ludzyk K. (University of Lodz, Lodz, Poland). Formation and growth of cationic Gemini surfactant 8-s-8 micelle. A calorimetric and small-angle neutron scattering study.
57. Makarov A. (MSU, Moscow). Association of silica nanoparticles with lipid vesicles studied by scattering methods and computer modeling.
58. Musatov A. (Institute of Experimental Physics SAS, Kosice, Slovakia) A small-angle neutron scattering study of bicelles and proteobicycles with incorporated mitochondrial cytochrome c oxidase.
59. Oprica L. ("Alexandru Ioan Cuza" University, Iasi, Romania). Silver nanoparticles and environmental microorganisms.
60. Rulev M. (FLNP JINR, Russia). Size effect during structural phase transition of lipid vesicles.
61. Ryzhykov Yu. (MIPT, Dolgoprudny). SANS investigation of nanodiscs prepared from deuterated membrane scaffold protein.
62. Sedlak E. (Safarik University, Kosice, Slovakia). Design and preparation of water soluble G-protein couple dreceptor.
63. Siposova K. (Institute of Experimental Physics SAS, Kosice, Slovakia). Structural study of protein amyloid fibrils upon interaction with fullerene aqueous solutions using small angle scattering.
64. Shibaev A. (MSU, Moscow). Structure and properties of hydrogels of a hydrophobically modified polyacrylamide with high degree of blockiness.
65. Slyamov A. (FLNP JINR, Dubna). Small-angle scattering from hydrant surface fractals.
66. Tomchuk O. (Taras Shevchenko National University of Kyiv, Ukraine/FLNP JINR, Dubna). Study of tetraethoxysilane clusters in basic ethanol/water solutions by SANS contrast variation.
67. Zabrodskaya J. (Research Institute of Influenza, Moscow). Amyloidogenicity of PB1-derived peptide sheds light on its antiviral action.

DYNAMICS OF MATERIALS AND MAGNETIC PROPERTIES

68. Bickulova N. (Bashkir State University, Sterlitamak). Dynamics of the lattice of two-dimensional superionic conductors.
69. Filarowski A. (Wroclaw University, Poland/ FLNP JINR, Dubna). Inelastic incoherent neutron scattering studies of intramolecular hydrogen bonding in ortho-hydroxyaryl Schiff base.
70. Hetmanczyk L. (Jagiellonian University, Krakow, Poland). Complementary studies of thermal and vibrational properties of $[Zn(NH_3)_4](ReO_4)_2$.
71. Holderna-Natkaniec K. (Adam Mickiewicz University, Poznan, Poland). Internal dynamics study of selected fenamates by IINS, IR, DFT simulation and 1H NMR methods

72. Ismayilova N. (Institute of Physics ANAS, Baku). First principle calculation of the electronic structure and dos of compound TlInSe₂.
73. Natkaniec I. (Adam Mickiewicz University, Poznan, Poland). Internal dynamics study of mefenamic acid by IINS, IR, DFT simulation and ¹H NMR methods
74. Savchenkov P. (NRNU "MEPhI", Moscow). Specific features of the La₂Zr₂O₇ lattice dynamics for different thermal treatment regimes.
75. Serebrennikov D. (I. Kant Baltic Federal University, Kaliningrad). Investigation of anomalous phonon softening in GdB₆, TbB₆ ANDDyB₆ using the superatom model.

TEXTURE AND STRESS INVESTIGATIONS OF MATERIALS

76. Altangerel B. (FLNP JINR Dubna/IPT Mongolia). EPSILON @ JINR: Residual stain investigation of an onyx sample from the Noyan Montains, Mongolia.
77. Breuer S. (Institute of Applied Geosciences, Karlsruhe Institute of Technology, Germany). An approach to forward model time-of-flight neutron diffraction data for uniaxial load conditions using the example of sandstone.
78. Bokuchava G. (FLNP JINR, Dubna). SiC composite studied using TOF neutron diffraction after plastic deformation and during annealing.
79. Ivankina T. (FLNP JINR, Dubna). Mineral preferred orientation and elastic properties of lithospheric rocks: comprehensive investigation by neutron diffraction, radiography and ultrasonics.
80. Ivankina T. (FLNP JINR, Dubna). Controversy over possible reasons for desintegration in the Rapakivi granite (Viborg, Russia): from microtexture to macrocracks.
81. Ivanova T. (NRNU "MEPhI", Moscow). On the application of some kernel relations in texture analysis.
82. Ivanova T. (NRNU "MEPhI", Moscow). On the possibility of approximating the texture of a magnesium sample by axial component.
83. Papushkin I. (FLNP JINR, Dubna). Investigations of residual stresses in samples from Al6061 welded by electron beam.
84. Scheffzuek K. (Karlsruhe Institute of Technology, Germany/FLNP JINR, Dubna). Magnesium alloy studied using neutron diffraction during in-situ tensile and compression tests.
85. Voigtlaender A. (Technical University of Munich, Germany). EPSILON @ JINR to understand progressive rock strength degradation by in situ strain detection using neutron diffraction.
86. Von Kossak Glowczewski J. (Steinmann Institute, Bonn University, Germany). Quartz texture analysis – a powerful tool for understanding complex tectonic processes of the Vals-Scaradra Shear Zone at the front of the Adula Nappe (Central Alps, Switzerland).
87. Walter J. (Geowissenschaftliches Zentrum, Universität Göttingen, Germany). Deciphering deformation mechanisms of experimentally deformed salt with SKAT texture diffractometer at JINR, Dubna.