List of publications of V. Pom*akushin till 2019

REFERENCES

[1] J. Y. Yang, X. D. Shen, V Pomjakushin, L. Keller, E. Pomjakushina, Y. W. Long, and M. Kenzelmann. Characterization of magnetic symmetry and electric polarization of YCr0.5Fe0.5O3. *PHYSICAL REVIEW B*, 101(1), JAN 13 2020. doi:{10.1103/PhysRevB.101.014415}.

[2] Pascal Puphal, Vladimir Pomjakushin, Naoya Kanazawa, Victor Ukleev, Dariusz J. Gawryluk, Junzhang Ma, Muntaser Naamneh, Nicholas C. Plumb, Lukas Keller, Robert Cubitt, Ekaterina Pomjakushina, and Jonathan S. White. Topological Magnetic Phase in the Candidate Weyl Semimetal CeAlGe. *PHYSICAL REVIEW LETTERS*, 124(1), JAN 7 2020. doi:{10.1103/PhysRevLett.124.017202}.

[3] Somnath Jana, Payel Aich, P. Anil Kumar, O. K. Forslund, E. Nocerino, V. Pomjakushin, M. Mansson, Y. Sassa, Peter Svedlindh, Olof Karis, Vasudeva Siruguri, and Sugata Ray. Revisiting Goodenough-Kanamori rules in a new series of double perovskites LaSr1-xCaxNiReO6. *SCIENTIFIC REPORTS*, 9, DEC 4 2019. doi:{10.1038/s41598-019-54427-0}.

[4] D. G. Mazzone, N. Gauthier, D. T. Maimone, R. Yadav, M. Bartkowiak, J. L. Gavilano, S. Raymond, V. Pomjakushin, N. Casati, Z. Revay, G. Lapertot, R. Sibille, and M. Kenzelmann. Evolution of Magnetic Order from the Localized to the Itinerant Limit. *PHYSICAL REVIEW LETTERS*, 123(9), AUG 27 2019. doi:{10.1103/PhysRevLett.123.097201}.

[5] Masashi Hase, James R. Hester, Kirrily C. Rule, Vladimir Yu Pomjakushin, Akira Matsuo, and Koichi Kindo. Reduction of the Ordered Magnetic Moment by Quantum Fluctuation in the Antiferromagnetic Spin-5/2 Dimer Compound FeVMoO7. *JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN*, 88(3), MAR 15 2019. doi:{10.7566/JPSJ.88.034711}.

[6] Sujoy Saha, Gwenaelle Rousse, Francois Fauth, Vladimir Pomjakushin, and Jean-Marie Tarascon. Influence of Temperature-Driven Polymorphism and Disorder on Ionic Conductivity in Li6Zn(P2O7)(2). *INORGANIC CHEMISTRY*, 58(3):1774–1781, FEB 4 2019. doi:{10.1021/acs.inorgchem.8b01800}.

[7] Hiroshi Nozaki, Hiroya Sakurai, Oren Ofer, Eduardo J. Ansaldo, Jess H. Brewer, Kim H. Chow, Vladimir Pomjakushin, Lukas Keller, Krunoslav Prsa, Kazutoshi Miwa, Martin Mansson, and Jun Sugiyama. Magnetic structure for NaCr2O4 analyzed by neutron diffraction and muon spin-rotation. *PHYSICA B-CONDENSED MATTER*, 551:137–141, DEC 15 2018. 11th International Conference on Neutron Scattering (ICNS), Daejeon, SOUTH KOREA, JUL 09-13, 2017. doi:{10.1016/j.physb.2017.11.011}.

[8] A. Furrer, A. Podlesnyak, E. Pomjakushina, and V Pomjakushin. Spin triplet ground-state in the copper hexamer compounds A(2)Cu(3)O(SO4)(3) (A = Na, K). *PHYSICAL REVIEW B*, 98(18), NOV 29 2018. doi:{10.1103/PhysRevB.98.180410}.

[9] Lei Zhang, Andreas Donni, Vladimir Y. Pomjakushin, Kazunari Yamaura, and Alexei A. Belik. Crystal and Magnetic Structures and Properties of (Lu1-xMnx)MnO3 Solid Solutions. *INORGANIC CHEMISTRY*, 57(22):14073–14085, NOV 19 2018. doi:{10.1021/acs.inorgchem.8b01470}.

[10] Bobby Prevost, Nicolas Gauthier, Vladimir Y. Pomjakushin, Bernard Delley, Helen C. Walker, Michel Kenzelmann, and Andrea D. Bianchi. Coexistence of magnetic fluctuations and long-range order in the one-dimensional J(1)-J(2) zigzag chain materials BaDy2O4 and BaHo2O4. *PHYSICAL REVIEW B*, 98(14), OCT 19 2018. doi:{10.1103/PhysRevB.98.144428}.

[11] Juan P. Bolletta, Fernando Pomiro, Rodolfo D. Sanchez, Vladimir Pomjakushin, Gabriela Aurelio, Antoine Maignan, Christine Martin, and Raul E. Carbonio. Spin reorientation and metamagnetic transitions in RFe0.5Cr0.5O3 perovskites (R = Tb, Dy, Ho, Er). *PHYSICAL REVIEW B*, 98(13), OCT 10 2018. doi:{10.1103/PhysRevB.98.134417}.

[12] J. Lohr, F. Pomiro, V. Pomjakushin, J. A. Alonso, R. E. Carbonio, and R. D. Sanchez. Multiferroic properties of RFe0.5Co0.5O3 with R = Tm, Er, Ho, Dy, and Tb. *PHYSICAL REVIEW B*, 98(13), OCT 3 2018. doi:{10.1103/PhysRevB.98.134405}.

[13] Ekaterina Pomjakushina, Katharina Rolfs, Janusz Karpinski, Kazimicrz Conder, and Vladimir Pomjakushin. Neutron powder diffraction study of Tm2Mn2O7 and Y2Mn2O7 - pyrochlore obtained by yet another chemical route of synthesis. *ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES*, 74(S):E329, AUG 2018. doi:{10.1107/S205327331809023X}.

[14] F. Li, V Pomjakushin, T. Mazet, R. Sibille, B. Malaman, R. Yadav, L. Keller, M. Medarde, K. Conder, and E. Pomjakushina. Revisiting the magnetic structure and charge ordering in La1/3Sr2/3FeO3 by neutron powder diffraction and Mossbauer spectroscopy. *PHYSICAL REVIEW B*, 97(17), MAY 17 2018. doi:{10.1103/PhysRevB.97.174417}.

[15] A. Furrer, K. W. Kraemer, A. Podlesnyak, V. Pomjakushin, D. Sheptyakov, and O. V. Safonova. Valence, exchange interaction, and location of Mn ions in polycrystalline MnxGa1-xN (x ¡= 0.04). *PHYSICAL REVIEW B*, 97(14), APR 10 2018. doi:{10.1103/PhysRevB.97.140102}.

[16] Andre Goetze, Nicolas Zapp, Andrea J. Peretzki, V. Pomjakushin, Thomas C. Hansen, and Holger Kohlmann. In Situ Hydrogenation and Crystal Chemistry Studies of Co2Si Type Compounds MgPd2 and Pd2Zn. *ZEITSCHRIFT FUR ANORGANISCHE UND ALLGEMEINE CHEMIE*, 644(6):367–375, APR 3 2018. doi:{10.1002/zaac.201700434}.

[17] Y. Sassa, M. Mansson, O. K. Forslund, O. Tjernberg, V. Pomjakushin, O. Ofer, E. J. Ansaldo, J. H. Brewer, I. Umegaki, Y. Higuchi, Y. Ikedo, H. Nozaki, M. Harada, I. Watanabe, H. Sakurai, and J. Sugiyama. The metallic quasi-1D spin-density-wave compound NaV2O4 studied by angle-resolved photoelectron spectroscopy. *JOURNAL OF ELECTRON SPECTROSCOPY AND RELATED PHENOMENA*, 224(SI):79–83, APR 2018. doi:{10.1016/j.elspec.2017.05.010}.

[18] A. Andrada-Chacon, J. A. Alonso, V. Pomjakushin, and J. Sanchez-Benitez. High-pressure synthesis and structural characterization of Na1-xKxMgH3 perovskite hydrides. *JOURNAL OF ALLOYS AND COMPOUNDS*, 729:914–920, DEC 30 2017. doi:{10.1016/j.jallcom.2017.09.245}.

[19] Viviane Pecanha-Antonio, Erxi Feng, Yixi Su, Vladimir Pomjakushin, Franz Demmel, Lieh-Jeng Chang, Robert J. Aldus, Yinguo Xiao, Martin R. Lees, and Thomas Bruckel. Magnetic excitations in the ground state of Yb2Ti2O7. *PHYSICAL REVIEW B*, 96(21), DEC 11 2017. doi:{10.1103/PhysRevB.96.214415}.

[20] Gwenaelle Rousse, Hania Ahouari, Vladimir Pomjakushin, Jean-Marie Tarascon, Nadir Recham, and Artem M. Abakumov. Denticity and Mobility of the Carbonate Groups in AMCO(3)F Fluorocarbonates: A Study on KMnCO3F and High Temperature KCaCO3F Polymorph. *INORGANIC CHEMISTRY*, 56(21):13132–13139, NOV 6 2017. doi:{10.1021/acs.inorgchem.7b01926}.

[21] Romain Sibille, Elsa Lhotel, Monica Ciomaga Hatnean, Goran J. Nilsen, Georg Ehlers, Antonio Cervellino, Eric Ressouche, Matthias Frontzek, Oksana Zaharko, Vladimir Pomjakushin, Uwe Stuhr, Helen C. Walker, Devashibhai T. Adroja, Hubertus Luetkens, Chris Baines, Alex Amato, Geetha Balakrishnan, Tom Fennell, and Michel Kenzelmann. Coulomb spin liquid in anion-disordered pyrochlore Tb2Hf2O7. *NATURE COMMUNICATIONS*, 8, OCT 12 2017. doi:{10.1038/s41467-017-00905-w}.

[22] M. E. Zayed, Ch. Ruegg, J. J. Larrea, A. M. Laeuchli, C. Panagopoulos, S. S. Saxena, M. Ellerby, D. F. McMorrow, Th. Strassle, S. Klotz, G. Hamel, R. A. Sadykov, V. Pomjakushin, M. Boehm, M. Jimenez-Ruiz, A. Schneidewind, E. Pomjakushina, M. Stingaciu, K. Conder, and H. M. Ronnow. 4-spin plaquette singlet state in the Shastry-Sutherland compound SrCu2(BO3)(2). *NATURE PHYSICS*, 13(10):962+, OCT 2017. doi:{10.1038/NPHYS4190}.

[23] N. Gauthier, A. Fennell, B. Prevost, A. C. Uldry, B. Delley, R. Sibille, A. Desilets-Benoit, H. A. Dabkowska, G. J. Nilsen, L. P. Regnault, J. S. White, C. Niedermayer, V. Pomjakushin, A. D. Bianchi, and M. Kenzelmann. Absence of long-range order in the frustrated magnet SrDy2O4 due to trapped defects from a dimensionality crossover. *PHYSICAL REVIEW B*, 95(13), APR 19 2017. doi:{10.1103/PhysRevB.95.134430}.

[24] A. Furrer, A. Podlesnyak, E. Pomjakushina, and V. Pomjakushin. Effect of Sr doping on the magnetic exchange interactions in manganites of type La(1-x)Sr(x)Mn(y)A(1-y)O(3) (A = Ga, Ti; 0.1 ¡= y ¡= 1). *PHYSICAL REVIEW B*, 95(10), MAR 14 2017. doi:{10.1103/PhysRevB.95.104414}.

[25] Saumya Mukherjee, Andreas Donni, Taro Nakajima, Setsuo Mitsuda, Makoto Tachibana, Hideaki Kitazawa, Vladimir Pomjakushin, Lukas Keller, Christof Niedermayer, Andrea Scaramucci, and Michel Kenzelmann. E-type noncollinear magnetic ordering in multiferroic o-LuMnO3. *PHYSICAL REVIEW B*, 95(10), MAR 13 2017. doi:{10.1103/PhysRevB.95.104412}.

[26] Monica Ciomaga Hatnean, Romain Sibille, Martin R. Lees, Michel Kenzelmann, Voraksmy Ban, Vladimir Pomjakushin, and Geetha Balakrishnan. Single crystal growth, structure and magnetic properties of Pr2Hf2O7 pyrochlore. *JOURNAL OF PHYSICS-CONDENSED MATTER*, 29(7), FEB 22 2017. doi:{10.1088/1361-648X/29/7/075902}.

[27] N. Gauthier, B. Prevost, A. Amato, C. Baines, V. Pomjakushin, A. D. Bianchi, R. J. Cava, and M. Kenzelmann. Evidence for spin liquid ground state in SrDy2O4 frustrated magnet probed by mu SR. In *8TH INTERNATIONAL CONFERENCE ON HIGHLY FRUSTRATED MAGNETISM 2016*, volume 828 of *Journal of Physics Conference Series*, 2017. 8th International Conference on Highly Frustrated Magnetism (HFM), Natl Taiwan Univ, Taipei, TAIWAN, SEP 07-11, 2016. doi:{10.1088/1742-6596/828/1/012014}.

[28] Zhendong Fu, Harikrishnan S. Nair, Yinguo Xiao, Anatoliy Senyshyn, Vladimir Y. Pomjakushin, Erxi Feng, Yixi Su, W. T. Jin, and Thomas Brueckel. Magnetic structures and magnetoelastic coupling of Fe-doped hexagonal manganites LuMn1-xFexO3(0 ¡= x ¡= 0.3). *PHYSICAL REVIEW B*, 94(12), SEP 30 2016. doi:{10.1103/PhysRevB.94.125150}.

[29] Man-Rong Li, Maria Retuerto, Peter W. Stephens, Mark Croft, Denis Sheptyakov, Vladimir Pomjakushin, Zheng Deng, Hirofumi Akamatsu, Venkatraman Gopalan, Javier Sanchez-Benitez, Felix O. Saouma, Joon I. Jang, David Walker, and Martha Greenblatt. Low-Temperature Cationic Rearrangement in a Bulk Metal Oxide. *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*, 55(34):9862–9867, AUG 16 2016. doi:{10.1002/anie.201511360}.

[30] Fabian von Rohr, Anna Krzton-Maziopa, Vladimir Pomjakushin, Henrik Grundmann, Zurab Guguchia, Wolfgang Schnick, and Andreas Schilling. Field-induced transition of the magnetic ground state from A-type antiferromagnetic to ferromagnetic order in CsCo2Se2. *JOURNAL OF PHYSICS-CONDENSED MATTER*, 28(27), JUL 13 2016. doi:{10.1088/0953-8984/28/27/276001}.

[31] Guochu Deng, D. Sheptyakov, V. Pomjakushin, M. Medarde, E. Pomjakushina, K. Conder, M. Kenzelmann, A. J. Studer, J. S. Gardner, and G. J. McIntyre. Chemical pressure effects on crystal and magnetic structures of bilayer manganites PrA(2)Mn(2)O(7) (A = Sr or Ca). *JOURNAL OF APPLIED PHYSICS*, 119(21), JUN 7 2016. doi:{10.1063/1.4953143}.

[32] Juliane Stahl, Vladimir Pomjakushin, and Dirk Johrendt. Ferromagnetism in Fe3-x-yNixGeTe2. *ZEITSCHRIFT FUR NATURFORSCHUNG SECTION B-A JOURNAL OF CHEMICAL SCIENCES*, 71(4):273–276, APR 2016. doi:{10.1515/znb-2015-0208}.

[33] Christian Ruegg, Romain Sibille, Juerg Schefer, Vladimir Pomjakushin, Denis Sheptyakov, Lukas Keller, Emmanuel Canevet, Tobias Panzner, and Oksana Zaharko. News from the Swiss Spallation Neutron Source SINQ: Diffraction at Non-Ambient Conditions. *ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES*, 72(S):S416, 2016. doi:{10.1107/S2053273316093918}.

[34] Denis Sheptyakov, Vladimir Pomjakushin, Lucien Boulet-Roblin, Claire Villevieille, Gerd Theidel, Mark Konnecke, and Roman Burge. Stroboscopic neutron powder diffraction at HRPT, SINQ. *ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES*, 72(S):S153, 2016. doi:{10.1107/S2053273316097722}.

[35] P. Lloveras, E. Stern-Taulats, M. Barrio, J-Ll Tamarit, S. Crossley, W. Li, V. Pomjakushin, A. Planes, Ll Manosa, N. D. Mathur, and X. Moya. Giant barocaloric effects at low pressure in ferrielectric ammonium sulphate. *NATURE COMMUNICATIONS*, 6, NOV 2015. doi:{10.1038/ncomms9801}.

[36] Ekaterina Pomjakushina, Vladimir Pomjakushin, Katharina Rolfs, Janusz Karpinski, and Kazimierz Conder. New Synthesis Route and Magnetic Structure of Tm2Mn2O7 Pyrochlore. *INORGANIC CHEMISTRY*, 54(18):9092–9097, SEP 21 2015. doi:{10.1021/acs.inorgchem.5b01498}.

[37] Romain Sibille, Elsa Lhotel, Vladimir Pomjakushin, Chris Baines, Tom Fennell, and Michel Kenzelmann. Candidate Quantum Spin Liquid in the Ce3+ Pyrochlore Stannate Ce2Sn2O7. *PHYSICAL REVIEW LETTERS*, 115(9), AUG 27 2015. doi:{10.1103/PhysRevLett.115.097202}.

[38] Masashi Hase, Haruhiko Kuroe, Vladimir Yu. Pomjakushin, Lukas Keller, Ryo Tamura, Noriki Terada, Yoshitaka Matsushita, Andreas Doenni, and Tomoyuki Sekine. Magnetic structure of the spin-1/2 frustrated quasi-one-dimensional antiferromagnet Cu3Mo2O9: Appearance of a partially disordered state. *PHYSICAL REVIEW B*, 92(5), AUG 13 2015. doi:{10.1103/PhysRevB.92.054425}.

[39] R. M. Pinacca, S. A. Larregola, C. A. Lopez, J. C. Pedregosa, Vladimir Pomjakushin, R. D. Sanchez, and J. A. Alonso. Cationic ordering and role of the B-site lanthanide(III) and molybdenum(V) cations on the structure and magnetism of double perovskites Sr(2)LnMoO(6). *MATERIALS RESEARCH BULLETIN*, 66:192–199, JUN 2015. doi:{10.1016/j.materresbull.2015.02.049}.

[40] Harikrishnan S. Nair, Zhendong Fu, C. M. N. Kumar, V. Y. Pomjakushin, Yinguo Xiao, Tapan Chatterji, and Andre M. Strydom. Spin-lattice coupling and frustrated magnetism in Fe-doped hexagonal LuMnO3. *EPL*, 110(3), MAY 2015. doi:{10.1209/0295-5075/110/37007}.

[41] A. M. Balagurov, I. A. Bobrikov, V. Yu. Pomjakushin, D. V. Sheptyakov, and V. Yu. Yushankhai. Interplay between structural and magnetic phase transitions in copper ferrite studied with high-resolution neutron diffraction. *JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS*, 374:591–599, JAN 15 2015. doi:{10.1016/j.jmmm.2014.08.092}.

[42] Jun Sugiyama, Hiroshi Nozaki, Masashi Harada, Yuki Higuchi, Hiroya Sakurai, Eduardo J. Ansaldo, Jess H. Brewer, Lukas Keller, Vladimir Pomjakushin, and Martin Mansson. Magnetic ground state of novel zigzag chain compounds, NaCr2O4 and Ca1-xNaxCr2O4, determined with muons and neutrons. In Labarta, A, editor, *20TH INTERNATIONAL CONFERENCE ON MAGNETISM, ICM 2015*, volume 75 of *Physics Procedia*, pages 868–875. Barcelo Congress; Palau Congress Catalunya; Spanish Royal Soc Phys; Int Union Pure Appl Phys, 2015. 20th International Conference on Magnetism, Span Soc Magnetism, Barcelona, SPAIN, JUL 05-10, 2015. doi:{10.1016/j.phpro.2015.12.112}.

[43] Vladimir Pomjakushin. Full propagation-vector star antiferromagnetic order in quantum spin trimer system Ca3CuNi2(PO4)(4). *JOURNAL OF PHYSICS-CONDENSED MATTER*, 26(49), DEC 10 2014. doi:{10.1088/0953-8984/26/49/496002}.

[44] Masashi Hase, Vladimir Yu. Pomjakushin, Andreas Doenni, Tao Yang, Rihong Cong, and Jianhua Lin. Direct Observation of the Ground State of a 1/3 Quantum Magnetization Plateau in SrMn3P4O14 Using Neutron Diffraction Measurements. *JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN*, 83(10), OCT 15 2014. doi:{10.7566/JPSJ.83.104701}.

[45] H. Saadaoui, T. Shiroka, A. Amato, C. Baines, H. Luetkens, E. Pomjakushina, V. Pomjakushin, J. Mesot, M. Pikulski, and E. Morenzoni. mu SR and NMR study of the superconducting Heusler compound YPd2Sn (vol 88, 094518, 2013). *PHYSICAL REVIEW B*, 90(5), AUG 19 2014. doi:{10.1103/PhysRevB.90.059902}.

[46] Th Straessle, S. Klotz, K. Kunc, V. Pomjakushin, and J. S. White. Equation of state of lead from high-pressure neutron diffraction up to 8.9 GPa and its implication for the NaCl pressure scale. *PHYSICAL REVIEW B*, 90(1), JUL 2 2014. doi:{10.1103/PhysRevB.90.014101}.

[47] A. Fennell, V. Y. Pomjakushin, A. Uldry, B. Delley, B. Prevost, A. Desilets-Benoit, A. D. Bianchi, R. I. Bewley, B. R. Hansen, T. Klimczuk, R. J. Cava, and M. Kenzelmann. Evidence for SrHo2O4 and SrDy2O4 as model J(1)-J(2) zigzag chain materials. *PHYSICAL REVIEW B*, 89(22), JUN 17 2014. doi:{10.1103/PhysRevB.89.224511}.

[48] Sebastian A. Larregola, Jose A. Alonso, Victor A. de la Pena-O'Shea, Denis Sheptyakov, Vladimir Pomjakushin, Maria T. Fernandez-Diaz, and Jose C. Pedregosa. Localization and Impact of Pb-Non-Bonded Electronic Pair on the Crystal and Electronic Structure of Pb2YSbO6. *INORGANIC CHEMISTRY*, 53(11):5609–5618, JUN 2 2014. doi:{10.1021/ic500278y}.

[49] A. Krzton-Maziopa, Z. Guguchia, E. Pomjakushina, V. Pomjakushin, R. Khasanov, H. Luetkens, P. K. Biswas, A. Amato, H. Keller, and K. Conder. Superconductivity in a new layered bismuth oxyselenide: LaO0.5F0.5BiSe2. *JOURNAL OF PHYSICS-CONDENSED MATTER*, 26(21), MAY 28 2014. doi:{10.1088/0953-8984/26/21/215702}.

[50] Sebastian A. Larregola, Jianshi Zhou, Jose A. Alonso, Vladimir Pomjakushin, and John B. Goodenough. New Routes to Synthesizing an Ordered Perovskite CaCu3Fe2Sb2O12 and Its Magnetic Structure by Neutron Powder Diffraction. *INORGANIC CHEMISTRY*, 53(9):4281–4283, MAY 5 2014. doi:{10.1021/ic500458m}.

[51] V. Svitlyk, D. Chernyshov, A. Bosak, E. Pomjakushina, A. Krzton-Maziopa, K. Conder, V. Pomjakushin, V. Dmitriev, G. Garbarino, and M. Mezouar. Compressibility and pressure-induced disorder in superconducting phase-separated Cs0.72Fe1.57Se2. *PHYSICAL REVIEW B*, 89(14), APR 14 2014. doi:{10.1103/PhysRevB.89.144106}.

[52] V. Yu. Pomjakushin, A. Furrer, D. V. Sheptyakov, E. V. Pomjakushina, and K. Conder. Crystal and magnetic structures of the spin-trimer compounds Ca3Cu3-xNix(PO4)(4) (x = 0,1,2) (vol 76, 174433, 2007). *PHYSICAL REVIEW B*, 89(13), APR 11 2014. doi:{10.1103/PhysRevB.89.139903}.

[53] A. Furrer, A. Podlesnyak, K. W. Kraemer, J. P. Embs, V. Pomjakushin, and Th Straessle. Propagation of defects in doped magnetic materials of different dimensionality. *PHYSICAL REVIEW B*, 89(14), APR 1 2014. doi:{10.1103/PhysRevB.89.144402}.

[54] P. S. Haefliger, S. Gerber, R. Pramod, V. I. Schnells, B. dalla Piazza, R. Chati, V. Pomjakushin, K. Conder, E. Pomjakushina, L. Le Dreau, N. B. Christensen, O. F. Syljuasen, B. Normand, and H. M. Ronnow.

Quantum and thermal ionic motion, oxygen isotope effect, and superexchange distribution in La2CuO4. *PHYSICAL REVIEW B*, 89(8), FEB 18 2014. doi:{10.1103/PhysRevB.89.085113}.

[55] J. M. Law, H. J. Koo, M. H. Whangbo, E. Bruecher, V. Pomjakushin, and R. K. Kremer. Strongly correlated one-dimensional magnetic behavior of NiTa2O6. *PHYSICAL REVIEW B*, 89(1), JAN 28 2014. doi:{10.1103/PhysRevB.89.014423}.

[56] V. Pomjakushin. Multi-k magnetic order in Ca3CuNi2(PO4)4: irrep approach and Shubnikov symmetry. *ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES*, 70(S):C1458, 2014. doi:{10.1107/S2053273314085416}.

[57] E. Pomjakushina, A. Krzton-Maziopa, V. Pomjakushin, A. Bosak, D. Chernyshov, V. Svitlyk, V. Dmitriev, S. Speller, and K. Conder. Phase separation in AyFe2-xSe2 (A= K, Rb, Cs) superconductors. *ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES*, 70(S):C1464, 2014. doi:{10.1107/S2053273314085350}.

[58] D. Sheptyakov, V. Pomjakushin, R. Stern, I. Heinmaa, H. Nakamura, and T. Kimura. Two types of adjacent dimer layers in the low-temperature phase of BaCuSi2O6. *ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES*, 70(S):C75, 2014. doi:{10.1107/S2053273314099240}.

[59] Guochu Deng, Michel Kenzelmann, Sergey Danilkin, Andrew J. Studer, Vladimir Pomjakushin, Paolo Imperia, Ekaterina Pomjakushina, and Kazimierz Conder. Coexistence of long-range magnetic ordering and singlet ground state in the spin-ladder superconductor SrCa13Cu24O41. *PHYSICAL REVIEW B*, 88(17), NOV 26 2013. doi:{10.1103/PhysRevB.88.174424}.

[60] X. Yan, M. W. Pieper, H. Michor, G. Hilscher, M. Reissner, A. Grytsiv, P. Rogl, V. Pomjakushin, G. Giester, E. Bauer, and S. Paschen. Phase relations, crystal chemistry, and physical properties of MgZn2-type Laves phases in the Mn-Cu-Si and Mn-Ni-Si systems. *PHYSICAL REVIEW B*, 88(17), NOV 19 2013. doi:{10.1103/PhysRevB.88.174416}.

[61] R. Hord, G. Pascua, K. Hofmann, G. Cordier, J. Kurian, H. Luetkens, V. Pomjakushin, M. Reehuis, B. Albert, and L. Alff. Oxygen stoichiometry of low-temperature synthesized metastable T '-La2CuO4. *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*, 26(10), OCT 2013. doi:{10.1088/0953-2048/26/10/105026}.

[62] H. Saadaoui, T. Shiroka, A. Amato, C. Baines, H. Luetkens, E. Pomjakushina, V. Pomjakushin, J. Mesot, M. Pikulski, and E. Morenzoni. mu SR and NMR study of the superconducting Heusler compound YPd2Sn. *PHYSICAL REVIEW B*, 88(9), SEP 26 2013. doi:{10.1103/PhysRevB.88.094518}.

[63] S. Gerber, J. L. Gavilano, M. Medarde, V. Pomjakushin, C. Baines, E. Pomjakushina, K. Conder, and M. Kenzelmann. Microscopic studies of the normal and superconducting state of Ca3Ir4Sn13. *PHYSICAL REVIEW B*, 88(10), SEP 4 2013. doi:{10.1103/PhysRevB.88.104505}.

[64] V. Svitlyk, D. Chernyshov, E. Pomjakushina, A. Krzton-Maziopa, K. Conder, V. Pomjakushin, R. Poettgen, and V. Dmitriev. Crystal structure of BaFe2Se3 as a function of temperature and pressure: phase transition phenomena and high-order expansion of Landau potential. *JOURNAL OF PHYSICS-CONDENSED MATTER*, 25(31), AUG 7 2013. doi:{10.1088/0953-8984/25/31/315403}.

[65] Hiroshi Nozaki, Martin Mansson, Bertrand Roessli, Vladimir Pomjakushin, Kazuya Kamazawa, Yutaka Ikedo, Henry E. Fischer, Thomas C. Hansen, Hiroyuki Yoshida, Zenji Hiroi, and Jun Sugiyama. Magnetic structure of the metallic triangular antiferromagnet Ag2NiO2. *JOURNAL OF PHYSICS-CONDENSED MATTER*, 25(28), JUL 17 2013. doi:{10.1088/0953-8984/25/28/286005}.

[66] Masashi Hase, Andreas Doenni, Osamu Sakai, Kiyoshi Ozawa, Hideaki Kitazawa, Vladimir Yu. Pomjakushin, Lukas Keller, Tao Yang, Rihong Cong, and Jianhua Lin. Magnetism of SrM P-3(4) O (14) (M (2+)=3d Ions) investigated using neutron-scattering measurements. *JOURNAL OF THE KOREAN PHYSICAL SOCIETY*, 62(12):1896–1899, JUL 2013. doi:{10.3938/jkps.62.1896}.

[67] M. Medarde, M. Mena, J. L. Gavilano, E. Pomjakushina, J. Sugiyama, K. Kamazawa, V. Yu. Pomjakushin, D. Sheptyakov, B. Batlogg, H. R. Ott, M. Mansson, and F. Juranyi. 1D to 2D Na+ Ion Diffusion Inherently Linked to Structural Transitions in Na0.7CoO2. *PHYSICAL REVIEW LETTERS*, 110(26), JUN 26 2013. doi:{10.1103/PhysRevLett.110.266401}.

[68] E. Iturbe-Zabalo, J. M. Igartua, A. Larranaga, V. Pomjakushin, G. Castro, and G. J. Cuello. Structural study of SrPrZnRuO6, SrPrCoRuO6, SrPrMgRuO6 and SrPrNiRuO6 double perovskite oxides by symmetry-adapted mode analysis. *JOURNAL OF PHYSICS-CONDENSED MATTER*, 25(20), MAY 22 2013. doi:{10.1088/0953-8984/25/20/205401}.

[69] E. Iturbe-Zabalo, J. M. Igartua, A. Aatiq, and V. Pomjakushin. A structural study of the CaLn(2)CuTi(2)O(9) (Ln = Pr, Nd, Sm) and BaLn(2)CuTi(2)O(9) (Ln = La, Pr, Nd) triple perovskite series. *JOURNAL OF MOLECULAR STRUCTURE*, 1034:134–143, FEB 27 2013. doi:{10.1016/j.molstruc.2012.08.049}.

[70] A. Bosak, V. Svitlyk, A. Krzton-Maziopa, E. Pomjakushina, K. Conder, V. Pomjakushin, A. Popov, D. de Sanctis, and D. Chernyshov. Phase coexistence in Cs0.8Fe1.6Se2 as seen by x-ray mapping of reciprocal space. *PHYSICAL REVIEW B*, 86(17), NOV 12 2012. doi:{10.1103/PhysRevB.86.174107}.

[71] V. Yu Pomjakushin, A. Krzton-Maziopa, E. V. Pomjakushina, K. Conder, D. Chernyshov, V. Svitlyk, and A. Bosak. Intrinsic crystal phase separation in the antiferromagnetic superconductor RbyFe2-xSe2: a diffraction study. *JOURNAL OF PHYSICS-CONDENSED MATTER*, 24(43), OCT 31 2012. doi:{10.1088/0953-8984/24/43/435701}.

[72] A. Krzton-Maziopa, E. V. Pomjakushina, V. Yu Pomjakushin, F. von Rohr, A. Schilling, and K. Conder. Synthesis of a new alkali metal-organic solvent intercalated iron selenide superconductor with T-c approximate to 45 K. *JOURNAL OF PHYSICS-CONDENSED MATTER*, 24(38), SEP 26 2012. doi:{10.1088/0953-8984/24/38/382202}.

[73] D. V. Sheptyakov, V. Yu. Pomjakushin, R. Stern, I. Heinmaa, H. Nakamura, and T. Kimura. Two types of adjacent dimer layers in the low-temperature phase of BaCuSi2O6. *PHYSICAL REVIEW B*, 86(1), JUL 30 2012. doi:{10.1103/PhysRevB.86.014433}.

[74] Y. A. Kibalin, I. V. Golosovsky, Y. A. Kumzerov, V. Y. Pomjakushin, A. A. Bosak, and P. P. Parshin. Neutron diffraction study of gallium nanostructured within a porous glass. *PHYSICAL REVIEW B*, 86(2), JUL 16 2012. doi:{10.1103/PhysRevB.86.024302}.

[75] A. M. Balagurov, L. G. Mamsurova, I. A. Bobrikov, To Thanh Loan, V. Yu. Pomjakushin, K. S. Pigalskiy, N. G. Trusevich, and A. A. Vishnev. Disordering effects in the atomic structure of fine-crystalline HTSC YBa2Cu3Oy. *JOURNAL OF EXPERIMENTAL AND THEORETICAL PHYSICS*, 114(6):1001–1011, JUN 2012. doi:{10.1134/S106377611204005X}.

[76] Masashi Hase, Vladimir Yu. Pomjakushin, Andreas Doenni, and Hideaki Kitazawa. Magnetic Structure of SrCo3P4O14 Determined from Neutron Powder Diffraction Results. *JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN*, 81(6), JUN 2012. doi:{10.1143/JPSJ.81.064702}.

[77] A. Munoz, J. A. Alonso, M. J. Martinez-Lope, V. Pomjakushin, and G. Andre. On the magnetic structure of PrMn2O5: a neutron diffraction study. *JOURNAL OF PHYSICS-CONDENSED MATTER*, 24(7), FEB 22 2012. doi:{10.1088/0953-8984/24/7/076003}.

[78] A. Krzton-Maziopa, E. Pomjakushina, V. Pomjakushin, D. Sheptyakov, D. Chernyshov, V. Svitlyk, and K. Conder. The synthesis, and crystal and magnetic structure of the iron selenide BaFe2Se3 with possible superconductivity at T-c = 11 K (vol 23, 402201, 2011). *JOURNAL OF PHYSICS-CONDENSED MATTER*, 24(5), FEB 8 2012. doi:{10.1088/0953-8984/24/5/059502}.

[79] F. Pfuner, S. N. Gvasaliya, O. Zaharko, L. Keller, J. Mesot, V. Pomjakushin, J-H Chu, I. R. Fisher, and L. Degiorgi. Incommensurate magnetic order in TbTe3. *JOURNAL OF PHYSICS-CONDENSED MATTER*, 24(3), JAN 25 2012. doi:{10.1088/0953-8984/24/3/036001}.

[80] Qianli Chen, Stuart Holdsworth, Jan Embs, Vladimir Pomjakushin, Bernhard Frick, and Artur Braun. High-temperature high pressure cell for neutron-scattering studies. *HIGH PRESSURE RESEARCH*, 32(4):471–481, 2012. doi:{10.1080/08957959.2012.725729}.

[81] C. de la Calle, M. J. Martinez-Lope, V. Pomjakushin, F. Porcher, and J. A. Alonso. Structure and magnetic properties of In2RuMnO6 and In2RuFeO6: Heavily transition-metal doped In2O3-type bixbyites. *SOLID STATE COMMUNICATIONS*, 152(2):95–99, JAN 2012. doi:{10.1016/j.ssc.2011.10.034}.

[82] Masashi Hase, Vladimir Yu Pomjakushin, Vadim Sikolenko, Lukas Keller, Andreas Doenni, and Hideaki Kitazawa. Negative magnetization of Li2Ni2Mo3O12 including two spin subsystems, distorted honeycomb lattice and linear chain. In *26TH INTERNATIONAL CONFERENCE ON LOW TEMPERATURE PHYSICS (LT26), PTS 1-5*, volume 400 of *Journal of Physics Conference Series*, 2012. 26th International Conference on Low Temperature Physics (LT), Beijing, PEOPLES R CHINA, AUG 10-17, 2011. doi:{10.1088/1742-6596/400/3/032017}.

[83] Masashi Hase, Andreas Doenni, Kiyoshi Ozawa, Hideaki Kitazawa, Osamu Sakai, Vladimir Yu Pomjakushin, Lukas Keller, Koji Kaneko, Naoto Metoki, Kazuhisa Kakurai, Masaaki Matsuda, Tao Yang, Rihong Cong, and Jianhua Lin. Neutron scattering studies of the spin-5/2 antiferromagnetic linear

trimer substance SrMn3P4O14. In *5TH EUROPEAN CONFERENCE ON NEUTRON SCATTERING*, volume 340 of *Journal of Physics Conference Series*. European Nucl Scattering Assoc, 2012. 5th European Conference on Neutron Scattering (ECNS), Prague, CZECH REPUBLIC, JUL 17-21, 2011. doi:{10.1088/1742-6596/340/1/012066}.

[84] Alexei Bosak, Volodymir Svitlyk, Alexander Popov, Daniele de Sanctis, Ekaterina Pomjakushina, Vladimir Pomjakushin, Anna Krzton-Maziopa, Kazimierz Conder, and Dmitry Chernyshov. 3D mapping of reciprocal space and structural complexity of A(x)Fc(2-y)Se(2) superconductor (A = Rb, Cs). *ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES*, 68(S):S187, 2012. doi:{10.1107/S0108767312096389}.

[85] Qianli Chen, Tzu-Wen Huang, Maria Baldini, Anwar Hushur, Vladimir Pomjakushin, Simon Clark, Wendy L. Mao, Murli H. Manghnani, Artur Braun, and Thomas Graule. Effect of Compressive Strain on the Raman Modes of the Dry and Hydrated BaCe0.8Y0.2O3 Proton Conductor. *JOURNAL OF PHYSICAL CHEMISTRY C*, 115(48):24021–24027, DEC 8 2011. doi:{10.1021/jp208525j}.

[86] Masashi Hase, Vladimir Yu Pomjakushin, Lukas Keller, Andreas Doenni, Osamu Sakai, Tao Yang, Rihong Cong, Jianhua Lin, Kiyoshi Ozawa, and Hideaki Kitazawa. Spiral magnetic structure in spin-5/2 frustrated trimerized chains in SrMn3P4O14. *PHYSICAL REVIEW B*, 84(18), NOV 29 2011. doi:{10.1103/PhysRevB.84.184435}.

[87] V. Svitlyk, D. Chernyshov, E. Pomjakushina, A. Krzton-Maziopa, K. Conder, V. Pomjakushin, and V. Dmitriev. Temperature and Pressure Evolution of the Crystal Structure of A(x)(Fe1-ySe)(2) (A = Cs, Rb, K) Studied by Synchrotron Powder Diffraction. *INORGANIC CHEMISTRY*, 50(21):10703–10708, NOV 7 2011. doi:{10.1021/ic201160y}.

[88] N. D. Zhigadlo, S. Katrych, M. Bendele, P. J. W. Moll, M. Tortello, S. Weyeneth, V. Yu. Pomjakushin, J. Kanter, R. Puzniak, Z. Bukowski, H. Keller, R. S. Gonnelli, R. Khasanov, J. Karpinski, and B. Batlogg. Interplay of composition, structure, magnetism, and superconductivity in SmFeAs1-xPxO1-y. *PHYSICAL REVIEW B*, 84(13), OCT 19 2011. doi:{10.1103/PhysRevB.84.134526}.

[89] Guochu Deng, Vladimir Pomjakushin, Vaclev Petricek, Ekaterina Pomjakushina, Michel Kenzelmann, and Kazimierz Conder. Structural evolution of one-dimensional spin-ladder compounds Sr14-xCaxCu24O41 with Ca doping and related evidence of hole redistribution. *PHYSICAL REVIEW B*, 84(14), OCT 17 2011. doi:{10.1103/PhysRevB.84.144111}.

[90] A. Krzton-Maziopa, E. Pomjakushina, V. Pomjakushin, D. Sheptyakov, D. Chernyshov, V. Svitlyk, and K. Conder. The synthesis, and crystal and magnetic structure of the iron selenide BaFe2Se3 with possible superconductivity at T-c=11 K. *JOURNAL OF PHYSICS-CONDENSED MATTER*, 23(40), OCT 12 2011. doi:{10.1088/0953-8984/23/40/402201}.

[91] Atta U. Khan, J. Bursik, A. Grytsiv, V. Pomjakushin, H. Effenberger, and P. Rogl. Crystal structure of tau(5)-TiNi2-xAl5 (x=0.48) and isotypic {Zr,Hf}Ni2-xAl5-y. *INTERMETALLICS*, 19(10):1340–1347, OCT 2011. doi:{10.1016/j.intermet.2011.03.028}.

[92] A. Furrer, Th. Straessle, J. P. Embs, F. Juranyi, V. Pomjakushin, M. Schneider, and K. W. Kraemer. Direct Observation of Local Mn-Mn Distances in the Paramagnetic Compound CsMnxMg1-xBr3. *PHYSICAL REVIEW LETTERS*, 107(11), SEP 8 2011. doi:{10.1103/PhysRevLett.107.115502}.

[93] Masashi Hase, Vladimir Yu Pomjakushin, Vadim Sikolenko, Lukas Keller, Hubertus Luetkens, Andreas Doenni, and Hideaki Kitazawa. Negative magnetization of Li2Ni2Mo3O12: A spin system composed of distorted honeycomb lattices and linear chains. *PHYSICAL REVIEW B*, 84(10), SEP 1 2011. doi:{10.1103/PhysRevB.84.104402}.

[94] A. Aguadero, M. J. Martinez-Lope, V. Pomjakushin, and J. A. Alonso. Oxygen-Deficient R2MoO6-delta (R = Tb, Dy, Y, Ho, Er, Tm, Yb) with Fluorite Structure as Potential Anodes in Solid Oxide Fuel Cells. *EUROPEAN JOURNAL OF INORGANIC CHEMISTRY*, (21):3226–3231, JUL 2011. doi:{10.1002/ejic.201100234}.

[95] Sebastian A. Larregola, Jose A. Alonso, Denis Sheptyakov, Miguel Alguero, Angel Munoz, Vladimir Pomjakushin, and Jose C. Pedregosa. High-Temperature Behavior and Polymorphism in Novel Members of the Perovskite Family Pb(2)LnSbO(6) (Ln = Ho, Er, Yb, Lu). *INORGANIC CHEMISTRY*, 50(12):5545–5557, JUN 20 2011. doi:{10.1021/ic200127a}.

[96] A. Furrer, E. Pomjakushina, V. Pomjakushin, J. P. Embs, and Th. Straessle. Ferromagnetic and antiferromagnetic dimer splittings in LaMn0.1Ga0.9O3. *PHYSICAL REVIEW B*, 83(17), MAY 31 2011. doi:{10.1103/PhysRevB.83.174442}.

[97] Atta U. Khan, A. Grytsiv, X. Yan, P. Rogl, A. Saccone, V. Pomjakushin, and G. Giester. Phase Relations and Crystal Structure of tau(6)-Ti-2(Ti0.16Ni0.43Al0.41)(3). *INORGANIC CHEMISTRY*, 50(10):4537–4547, MAY 16 2011. doi:{10.1021/ic200245m}.

[98] A. M. Balagurov, I. A. Bobrikov, V. Yu. Pomjakushin, E. V. Pomjakushina, D. V. Sheptyakov, and I. O. Troyanchuk. Low-temperature structural anomalies in Pr0.5Sr0.5CoO3. *JETP LETTERS*, 93(5):263–268, MAY 2011. doi:{10.1134/S0021364011050031}.

[99] V. Yu Pomjakushin, E. V. Pomjakushina, A. Krzton-Maziopa, K. Conder, and Z. Shermadini. Room temperature antiferromagnetic order in superconducting XyFe2-xSe2 (X = Rb, K): a neutron powder diffraction study. *JOURNAL OF PHYSICS-CONDENSED MATTER*, 23(15), APR 20 2011. doi:{10.1088/0953-8984/23/15/156003}.

[100] V. Yu. Pomjakushin, D. V. Sheptyakov, E. V. Pomjakushina, A. Krzton-Maziopa, K. Conder, D. Chernyshov, V. Svitlyk, and Z. Shermadini. Iron-vacancy superstructure and possible room-temperature antiferromagnetic order in superconducting CsyFe2-xSe2. *PHYSICAL REVIEW B*, 83(14), APR 14 2011. doi:{10.1103/PhysRevB.83.144410}.

[101] S. K. Mishra, R. Mittal, V. Yu. Pomjakushin, and S. L. Chaplot. Phase stability and structural temperature dependence in sodium niobate: A high-resolution powder neutron diffraction study. *PHYSICAL REVIEW B*, 83(13), APR 7 2011. doi:{10.1103/PhysRevB.83.134105}.

[102] Z. Shermadini, A. Krzton-Maziopa, M. Bendele, R. Khasanov, H. Luetkens, K. Conder, E. Pomjakushina, S. Weyeneth, V. Pomjakushin, O. Bossen, and A. Amato. Coexistence of Magnetism and Superconductivity in the Iron-Based Compound Cs-0.8(FeSe0.98)(2). *PHYSICAL REVIEW LETTERS*, 106(11), MAR 16 2011. doi:{10.1103/PhysRevLett.106.117602}.

[103] Lorenzo Malavasi, Cristina Tealdi, Clemens Ritter, Vladimir Pomjakushin, Fabia Gozzo, and Yuri Diaz-Fernandez. Combined Neutron and Synchrotron X-ray Diffraction investigation of the BaCe0.85-xZrxY0.15O3-delta (0.1 ¡= x ¡= 0.4) Proton Conductors. *CHEMISTRY OF MATERIALS*, 23(5):1323–1330, MAR 8 2011. doi:{10.1021/cm1034326}.

[104] S. Klotz, Th Straessle, A. L. Cornelius, J. Philippe, and V. Pomjakushin. Elastic properties of alpha-iron at high temperatures by high-pressure neutron scattering. *JOURNAL OF PHYSICS D-APPLIED PHYSICS*, 44(5), FEB 9 2011. doi:{10.1088/0022-3727/44/5/055406}.

[105] A. Krzton-Maziopa, Z. Shermadini, E. Pomjakushina, V. Pomjakushin, M. Bendele, A. Amato, R. Khasanov, H. Luetkens, and K. Conder. Synthesis and crystal growth of Cs-0.8(FeSe0.98)2: a new iron-based superconductor with T-c=27 K. *JOURNAL OF PHYSICS-CONDENSED MATTER*, 23(5), FEB 9 2011. doi:{10.1088/0953-8984/23/5/052203}.

[106] V. Yu. Pomjakushin, D. V. Sheptyakov, E. V. Pomjakushina, A. Krzton-Maziopa, K. Conder, D. Chernyshov, V. Svitlyk, and Z. Shermadini. Iron vacancy superstructure and room temperature antiferromagnetic order in superconducting XyFe2-xSe2 (X=K, Cs, Rb). *ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES*, 67(S):C208, 2011. doi:{10.1107/S0108767311094815}.

[107] Ekaterina Pomjakushina, Anna Krzton-Maziopa, Kazimierz Conder, and Vladimir Pomjakushin. FeSe-based superconductors (11, 122-type): phase diagram, crystal growth and characterization. *ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES*, 67(S):C455, 2011. doi:{10.1107/S0108767311088532}.

[108] V. Svitlyk, D. Chernyshov, E. Pomjakushina, A. Krzton-Maziopa, K. Conder, V. Pomjakushin, and V. Dmitriev. Temperature and pressure evolution of the crystal structure of A(x)(Fe1-ySe)(2) (A = Cs, Rb, K) studied by synchrotron X-ray diffraction. *ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES*, 67(S):C239, 2011. doi:{10.1107/S0108767311094025}.

[109] M. Garcia-Fernandez, U. Staub, Y. Bodenthin, V. Pomjakushin, A. Mirone, J. Fernandez-Rodriguez, V. Scagnoli, A. M. Mulders, S. M. Lawrence, and E. Pomjakushina. Doping and temperature dependence of Mn 3d states in A-site ordered manganites. *PHYSICAL REVIEW B*, 82(23), DEC 6 2010. doi:{10.1103/PhysRevB.82.235108}.

[110] M. J. Martinez-Lope, J. A. Alonso, D. Sheptyakov, and V. Pomjakushin. Preparation and structural study from neutron diffraction data of Pr5Mo3O16. *JOURNAL OF SOLID STATE CHEMISTRY*, 183(12):2974–2978, DEC 2010. doi:{10.1016/j.jssc.2010.10.015}.

[111] R. Hord, H. Luetkens, G. Pascua, A. Buckow, K. Hofmann, Y. Krockenberger, J. Kurian, H. Maeter, H. H. Klauss, V. Pomjakushin, A. Suter, B. Albert, and L. Alff. Enhanced two-dimensional behavior of

metastable T '-La2CuO4, the parent compound of electron-doped cuprate superconductors. *PHYSICAL REVIEW B*, 82(18), NOV 10 2010. doi:{10.1103/PhysRevB.82.180508}.

[112] Sebastian A. Larregola, Jose A. Alonso, Denis Sheptyakov, Miguel Alguero, Angel Munoz, Vladimir Pomjakushin, and Jose C. Pedregosa. An Original Polymorph Sequence in the High-Temperature Evolution of the Perovskite Pb2TmSbO6. *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*, 132(41):14470–14480, OCT 20 2010. doi:{10.1021/ja104417f}.

[113] Thierry Straessle, Andrin Caviezel, Balasubramanian Padmanabhan, Vladimir Yu. Pomjakushin, and Stefan Klotz. Temperature dependence of the pressure-induced amorphization of ice I-h studied by high-pressure neutron diffraction to 30 K. *PHYSICAL REVIEW B*, 82(9), SEP 13 2010. doi:{10.1103/PhysRevB.82.094103}.

[114] R. Khasanov, M. Bendele, K. Conder, H. Keller, E. Pomjakushina, and V. Pomjakushin. Iron isotope effect on the superconducting transition temperature and the crystal structure of FeSe1-x. *NEW JOURNAL OF PHYSICS*, 12, JUL 22 2010. doi:{10.1088/1367-2630/12/7/073024}.

[115] M. Bendele, S. Weyeneth, R. Puzniak, A. Maisuradze, E. Pomjakushina, K. Conder, V. Pomjakushin, H. Luetkens, S. Katrych, A. Wisniewski, R. Khasanov, and H. Keller. Anisotropic superconducting properties of single-crystalline FeSe0.5Te0.5. *PHYSICAL REVIEW B*, 81(22), JUN 28 2010. doi:{10.1103/PhysRevB.81.224520}.

[116] J. S. Zhou, J. A. Alonso, V. Pomjakushin, J. B. Goodenough, Y. Ren, J. Q. Yan, and J. G. Cheng. Intrinsic structural distortion and superexchange interaction in the orthorhombic rare-earth perovskites RCrO3. *PHYSICAL REVIEW B*, 81(21), JUN 18 2010. doi:{10.1103/PhysRevB.81.214115}.

[117] V. Yu Pomjakushin, D. V. Sheptyakov, E. V. Pomjakushina, K. Conder, and A. M. Balagurov. Evidence for the strong effect of quenched correlated disorder on phase separation and magnetism in (La1-yPry)(0.7)Ca0.3MnO3. *JOURNAL OF PHYSICS-CONDENSED MATTER*, 22(11), MAR 24 2010. doi:{10.1088/0953-8984/22/11/115601}.

[118] M. Janoschek, P. Fischer, J. Schefer, B. Roessli, V. Pomjakushin, M. Meven, V. Petricek, G. Petrakovskii, and L. Bezmaternikh. Single magnetic chirality in the magnetoelectric NdFe3((BO3)-B-11)(4). *PHYSICAL REVIEW B*, 81(9), MAR 1 2010. doi:{10.1103/PhysRevB.81.094429}.

[119] Hiroshi Nozaki, Jun Sugiyama, Martin Mansson, Masashi Harada, Vladimir Pomjakushin, Vadim Sikolenko, Antonio Cervellino, Bertrand Roessli, and Hiroya Sakurai. Incommensurate spin-density-wave order in quasi-one-dimensional metallic antiferromagnet NaV2O4. *PHYSICAL REVIEW B*, 81(10), MAR 2010. doi:{10.1103/PhysRevB.81.100410}.

[120] Masashi Hase, Andreas Doenni, Vladimir Yu Pomjakushin, Lukas Keller, Fabia Gozzo, Antonio Cervellino, and Masanori Kohno. Magnetic structure of Cu2CdB2O6 having magnetization plateau and antiferromagnetic long-range order. In Goll, G and Lohneysen, HV and Loidl, A and Pruschke, T and Richter, M and Schultz, L and Surgers, C and Wosnitza, J, editor, *INTERNATIONAL CONFERENCE ON MAGNETISM (ICM 2009)*, volume 200 of *Journal of Physics Conference Series*. Univ Karlsruhe; Forschungszentrum Karlsruhe; Int Union Pure & Appl Phys; City Karlsruhe; German Natl Sci Fdn; European Commission COST MPNS, 2010. International Conference on Magnetism (ICM 2009), Karlsruhe, GERMANY, JUL 26-31, 2009. doi:{10.1088/1742-6596/200/2/022015}.

[121] S. K. Mishra, R. Mittal, S. L. Chaplot, and V. Yu. Pomjakushin. The Structure of Sodium Niobate at 770 KS. In Aswal, DK and Debnath, AK, editor, *INTERNATIONAL CONFERENCE ON PHYSICS OF EMERGING FUNCTIONAL MATERIALS (PEFM-2010)*, volume 1313 of *AIP Conference Proceedings*, pages 227+. Board of Res Nucl Sci (BRNS), 2010. International Conference on Physics of Emerging Functional Materials, Bhabha Atom Res Ctr, Mumbai, INDIA, SEP 22-24, 2010.

[122] A. Braun, A. Ovalle, V. Pomjakushin, A. Cervellino, S. Erat, W. C. Stolte, and T. Graule. Yttrium and hydrogen superstructure and correlation of lattice expansion and proton conductivity in the BaZr0.9Y0.1O2.95 proton conductor. *APPLIED PHYSICS LETTERS*, 95(22), NOV 30 2009. doi:{10.1063/1.3268454}.

[123] R. Khasanov, M. Bendele, A. Amato, P. Babkevich, A. T. Boothroyd, A. Cervellino, K. Conder, S. N. Gvasaliya, H. Keller, H. H. Klauss, H. Luetkens, V. Pomjakushin, E. Pomjakushina, and B. Roessli. Coexistence of incommensurate magnetism and superconductivity in Fe(1+y)SexTe(1-x). *PHYSICAL REVIEW B*, 80(14), OCT 2009. doi:{10.1103/PhysRevB.80.140511}.

[124] Masashi Hase, Andreas Doenni, Vladimir Yu. Pomjakushin, Lukas Keller, Fabia Gozzo, Antonio Cervellino, and Masanori Kohno. Magnetic structure of Cu2CdB2O6 exhibiting a quantum-mechanical magnetization plateau and classical antiferromagnetic long-range order. *PHYSICAL REVIEW B*, 80(10), SEP 2009. doi:{10.1103/PhysRevB.80.104405}.

[125] M. Garcia-Fernandez, U. Staub, Y. Bodenthin, V. Scagnoli, V. Pomjakushin, S. W. Lovesey, A. Mirone, J. Herrero-Martin, C. Piamonteze, and E. Pomjakushina. Orbital Order at Mn and O Sites and Absence of Zener Polaron Formation in Manganites. *PHYSICAL REVIEW LETTERS*, 103(9), AUG 28 2009. doi:{10.1103/PhysRevLett.103.097205}.

[126] E. Pomjakushina, K. Conder, V. Pomjakushin, M. Bendele, and R. Khasanov. Synthesis, crystal structure, and chemical stability of the superconductor FeSe1-x. *PHYSICAL REVIEW B*, 80(2), JUL 2009. doi:{10.1103/PhysRevB.80.024517}.

[127] D. V. Sheptyakov, V. Yu. Pomjakushin, O. A. Drozhzhin, S. Ya. Istomin, E. V. Antipov, I. A. Bobrikov, and A. M. Balagurov. Correlation of chemical coordination and magnetic ordering in Sr3YCo4O10.5+delta (delta=0.02 and 0.26). *PHYSICAL REVIEW B*, 80(2), JUL 2009. doi:{10.1103/PhysRevB.80.024409}.

[128] V. Yu Pomjakushin, M. Kenzelmann, A. Doenni, A. B. Harris, T. Nakajima, S. Mitsuda, M. Tachibana, L. Keller, J. Mesot, H. Kitazawa, and E. Takayama-Muromachi. Evidence for large electric polarization from collinear magnetism in TmMnO3. *NEW JOURNAL OF PHYSICS*, 11, APR 2009. doi:{10.1088/1367-2630/11/4/043019}.

[129] Xinlin Yan, A. Grytsiv, P. Rogl, V. Pomjakushin, and Xiangxin Xue. On the crystal structure of the Mn-Ni-Si G-phase. *JOURNAL OF ALLOYS AND COMPOUNDS*, 469(1-2):152–155, FEB 5 2009. doi:{10.1016/j.jallcom.2008.01.142}.

[130] A. M. Balagurov, I. A. Bobrikov, D. V. Karpinsky, I. O. Troyanchuk, V. Yu. Pomjakushin, and D. V. Sheptyakov. Successive Structural Phase Transitions in Pr0.5Sr0.5CoO3 in the Range 10-1120 K. *JETP LETTERS*, 88(8):531–536, DEC 2008. doi:{10.1134/S0021364008200137}.

[131] Xinlin Yan, A. Grytsiv, P. Rogl, V. Pomjakushin, and M. Palm. The Heusler Phase Ti-25(Fe50-xNix)Al-25 (0 ¡= x ¡= 50); Structure and Constitution. *JOURNAL OF PHASE EQUILIBRIA AND DIFFUSION*, 29(6):500–508, DEC 2008. doi:{10.1007/s11669-008-9389-6}.

[132] Xinlin Yan, A. Grytsiv, P. Rogl, V. Pomjakushin, and H. Schmidt. On the Quaternary System Ti-Fe-Ni-Al. *JOURNAL OF PHASE EQUILIBRIA AND DIFFUSION*, 29(5):414–428, OCT 2008. doi:{10.1007/s11669-008-9352-6}.

[133] M. J. Martinez-Lope, M. Retuerto, J. A. Alonso, and V. Pomjakushin. Synthesis and study of the crystallographic and magnetic structure of DyFeMnO5: A new ferrimagnetic oxide. *JOURNAL OF SOLID STATE CHEMISTRY*, 181(9):2155–2160, SEP 2008. doi:{10.1016/j.jssc.2008.05.009}.

[134] D. Chernyshov, V. Dmitriev, E. Pomjakushina, K. Conder, M. Stingaciu, V. Pomjakushin, A. Podlesnyak, A. A. Taskin, and Y. Ando. Superstructure formation at the metal-insulator transition in RBaCo2O5.5 (R=Nd,Tb) as seen from reciprocal space mapping. *PHYSICAL REVIEW B*, 78(2), JUL 2008. doi:{10.1103/PhysRevB.78.024105}.

[135] Ivan V. Nikolaev, Hans D'Hondt, Artem M. Abakumov, Joke Hadermann, Anatoly M. Balagurov, Ivan A. Bobrikov, Denis V. Sheptyakov, Vladimir Yu. Pomjakushin, Konstantin V. Pokholok, Dmitry S. Filimonov, Gustaaf Van Tendeloo, and Evgeny V. Antipov. Crystal structure, phase transition, and magnetic ordering in perovskitelike Pb2-xBaxFe2O5 solid solutions. *PHYSICAL REVIEW B*, 78(2), JUL 2008. doi:{10.1103/PhysRevB.78.024426}.

[136] Xinlin Yan, X. Q. Chen, A. Grytsiv, P. Rogl, R. Podloucky, V. Pomjakushin, H. Schmidt, and G. Giester. Crystal structure, phase stability and elastic properties of the Laves phase ZrTiCu2. *INTERMETALLICS*, 16(5):651–657, MAY 2008. doi:{10.1016/j.intermet.2008.01.015}.

[137] Hiroshi Nozaki, Jun Sugiyama, Marc Janoschek, Bertrand Roessli, Vladimir Pomjakushin, Lukas Keller, Hiroyuki Yoshida, and Zenji Hiroi. Neutron diffraction study of layered Ni dioxides: Ag2NiO2. *JOURNAL OF PHYSICS-CONDENSED MATTER*, 20(10), MAR 12 2008. 4th European Conference on Neutron Scattering, Lund, SWEDEN, JUN, 2007. doi:{10.1088/0953-8984/20/10/104236}.

[138] G-M Rotaru, S. N. Gvasaliya, V. Pomjakushin, B. Roessli, Th Straessle, S. G. Lushnikov, T. A. Shaplygina, and P. Guenter. Atomic displacements in PbMg1/3Nb2/3O3 under high pressures. *JOURNAL OF PHYSICS-CONDENSED MATTER*, 20(10), MAR 12 2008. 4th European Conference on Neutron Scattering, Lund, SWEDEN, JUN, 2007. doi:{10.1088/0953-8984/20/10/104235}.

[139] A. M. Balagurov, I. A. Bobrikov, V. Yu. Pomjakushin, D. V. Sheptyakov, N. A. Babushkina, O. Yu. Gorbenko, M. S. Kartavtseva, and A. R. Kaul. Effect of isotopic composition and microstructure on the crystalline and magnetic phase states in R0.5Sr0.5MnO3. *JOURNAL OF EXPERIMENTAL AND THEORETICAL PHYSICS*, 106(3):528–541, MAR 2008. doi:{10.1134/S1063776108030126}.

[140] Dmitry Chernyshov, Ekaterina Pomjakushina, Vladimir Pomjakushin, and Vladimir Dmitriev. Superstructures in RBaCo2O5.5 (R=Nd, Tb) as seen from reciprocal space mapping. *ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES*, 64(S):C518–C519, 2008. doi:{10.1107/S0108767308083347}.

[141] Vladimir Yu. Pomjakushin, Albert Furrer, Ekaterina V. Pomjakushina, Denis V. Sheptyakov, and Kazimierz Conder. Crystal and magnetic structure of quantum spin-trimer compounds Ca(3)Cu(3-)xNi(x)(PO4)(4). *ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES*, 64(S):C471–C472, 2008. doi:{10.1107/S0108767308084857}.

[142] V. Yu. Pomjakushin, A. Furrer, D. V. Sheptyakov, E. V. Pomjakushina, and K. Conder. Crystal and magnetic structures of the spin-trimer compounds Ca(3)Cu(3-x)Ni(x)(PO(4))(4) (x=0,1,2). *PHYSICAL REVIEW B*, 76(17), NOV 2007. doi:{10.1103/PhysRevB.76.174433}.

[143] A. Podlesnyak, V. Pomjakushin, E. Pomjakushina, K. Conder, and A. Furrer. Magnetic excitations in the spin-trimer compounds Ca3Cu3-xNix(PO4)(4) (x=0,1,2). *PHYSICAL REVIEW B*, 76(6), AUG 2007. doi:{10.1103/PhysRevB.76.064420}.

[144] Keka R. Chakraborty, S. M. Yusuf, P. S. R. Krishna, M. Ramanadham, V. Pomjakushin, and A. K. Tyagi. Structural stability of orthorhombic and rhombohedral La0.75Nd0.25CrO3: a high-temperature neutron diffraction study. *JOURNAL OF PHYSICS-CONDENSED MATTER*, 19(21), MAY 30 2007. doi:{10.1088/0953-8984/19/21/216207}.

[145] K. Conder, A. Podlesnyak, E. Pomjakushina, V. Pomjakushin, M. Stingaciu, and A. E. Karkin. Transport properties and oxygen isotope effect in layered cobaltites RBaCo2O5+x. *JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS*, 310(2, 1):907–909, MAR 2007. 17th International Conference on Magnetism (ICM 2006), Kyoto, JAPAN, AUG 20-25, 2006. doi:{10.1016/j.jmmm.2006.10.487}.

[146] A. Grytsiv, Xing-Qiu Chen, P. Rogl, R. Podloucky, H. Schmidt, G. Giester, and V. Pomjakushin. Crystal chemistry of the G-phases in the {Ti, Zr, Hf}-Ni-Si systems. *JOURNAL OF SOLID STATE CHEMISTRY*, 180(2):733–741, FEB 2007. doi:{10.1016/j.jssc.2006.11.031}.

[147] V. Yu. Pomjakushin, D. V. Sheptyakov, K. Conder, E. V. Pomjakushina, and A. M. Balagurov. Effect of oxygen isotope substitution and crystal microstructure on magnetic ordering and phase separation in (La1-yPry)(0.7)Ca0.3MnO3. *PHYSICAL REVIEW B*, 75(5), FEB 2007. doi:{10.1103/PhysRevB.75.054410}.

[148] N. V. Baranov, V. I. Maksimov, J. Mesot, V. G. Pleschov, A. Podlesnyak, V. Pomjakushin, and N. V. Selezneva. Possible reappearance of the charge density wave transition in MxTiSe2 compounds intercalated with 3d metals. *JOURNAL OF PHYSICS-CONDENSED MATTER*, 19(1), JAN 10 2007. doi:{10.1088/0953-8984/19/1/016005}.

[149] Alexandros Lappas, Christopher J. Nuttall, Zacharias G. Fthenakis, Vladimir Yu. Pomjakushin, and Mark A. Roberts. Topotactic intercalation of a metallic dense host matrix chalcogenide with large electron-phonon coupling: Crystal structures and electronic properties of LixMo2SbS2 (0 ¡= x ¡ 0.7). *CHEMISTRY OF MATERIALS*, 19(1):69–78, JAN 9 2007. doi:{10.1021/cm0622147}.

[150] J. Schefer, M. Janoschek, V. Pomjakushin, P. Fischer, D. Sheptyakov, L. Keller, B. Roessli, G. Petrakovskii, L. Bezmaternikh, V. Temerov, and D. Velikanov. Simultaneous antiferromagnetic Fe3+ and Nd3+ ordering in NdFe3((BO3)-B-11)(4) investigated by single crystal neutron diffraction. *ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES*, 63(S):S92, 2007. doi:{10.1107/S0108767307097966}.

[151] Hirotake Shigematsu, Yukikuni Akishige, Severian Gvasaliya, Vladimir Pomjakushin, Sergey Lushnikov, and Seiji Kojima. Neutron powder diffraction study of the phase transition in BaTi2O5. *FERROELECTRICS*, 346:43–48, 2007. 8th Russian-CIS-Baltic-Japan Symposium on Ferroelectricity (RCBJSF-8), Tsukuba, JAPAN, MAY 15-19, 2006. doi:{10.1080/00150190601180190}.

[152] Anatoly M. Balagurov, Ivan A. Bobrikov, Vladimir Yu. Pomjakushin, Denis V. Sheptyakov, Nataliya A. Babushkina, Oleg Yu. Gorbenko, and Andrej R. Kaul. Structural origin of the giant oxygen isotope effect in Re0.5Sr0.5MnO3 perovskites. *PHYSICA B-CONDENSED MATTER*, 385(1, SI):94–96, NOV 15 2006. 8th International Conference (ICNS 2005), Sydney, AUSTRALIA, NOV 27-DEC 02, 2005. doi:{10.1016/j.physb.2006.05.113}.

[153] A. M. Balagurov and V. Yu. Pomyakushin. Structural aspects of the giant oxygen isotope effect in perovskite manganese oxides. *CRYSTALLOGRAPHY REPORTS*, 51(5):828–839, OCT 2006. doi:{10.1134/S1063774506050130}.

[154] S. N. Bushmeleva, V. Yu. Pomjakushin, E. V. Pomjakushina, D. V. Sheptyakov, and A. M. Balagurov. Evidence for the band ferromagnetism in SrRuO3 from neutron diffraction. *JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS*, 305(2):491–496, OCT 2006. doi:{10.1016/j.jmmm.2006.02.089}.

[155] J. Schefer, D. Schaniel, V. Pomjakushin, U. Stuhr, V. Petricek, Th. Woike, M. Woehlecke, and M. Imlau. Structural properties of Sr0.61Ba0.39Nb2O6 in the temperature range 10-500 K investigated by high-resolution neutron powder diffraction and specific heat measurements. *PHYSICAL REVIEW B*, 74(13), OCT 2006. doi:{10.1103/PhysRevB.74.134103}.

[156] Keka R. Chakraborty, S. M. Yusuf, P. S. R. Krishna, M. Ramanadham, A. K. Tyagi, and V. Pomjakushin. Structural study of La0.75Sr0.25CrO3 at high temperatures. *JOURNAL OF PHYSICS-CONDENSED MATTER*, 18(37):8661–8672, SEP 20 2006. doi:{10.1088/0953-8984/18/37/022}.

[157] Lorenzo Malavasi, Maria Cristina Mozzati, Vladimir Pomjakushin, Cristina Tealdi, Carlo Bruno Azzoni, and Giorgio Flor. Absence of long-range magnetic order in the La1.4Sr0.8Ca0.8Mn2O7 bilayered manganite. *JOURNAL OF PHYSICAL CHEMISTRY B*, 110(35):17414–17419, SEP 7 2006. doi:{10.1021/jp0624597}.

[158] Lorenzo Malavasi, Maria Cristina Mozzati, Clemens Ritter, Vladimir Pomjakushin, Cristina Tealdi, Carlo Bruno Azzoni, and Giorgio Flor. Doping effects in single-layered La0.5Sr1.5MnO4 manganite. *JOURNAL OF PHYSICAL CHEMISTRY B*, 110(35):17430–17436, SEP 7 2006. doi:{10.1021/jp063384+}.

[159] P. Fischer, V. Pomjakushin, D. Sheptyakov, L. Keller, M. Janoschek, B. Roessli, J. Schefer, G. Petrakovskii, L. Bezmaternikh, V. Temerov, and D. Velikanov. Simultaneous antiferromagnetic Fe3+ and Nd3+ ordering in NdFe3((BO3)-B-11)(4). *JOURNAL OF PHYSICS-CONDENSED MATTER*, 18(34):7975–7989, AUG 30 2006. doi:{10.1088/0953-8984/18/34/010}.

[160] M. J. Martinez-Lope, J. A. Alonso, M. T. Casais, M. Garcia-Hernandez, and V. Pomjakushin. Preparation, structural study from neutron diffraction data and magnetism of the disordered perovskite Ca(Cr0.5Mo0.5)O-3. *JOURNAL OF SOLID STATE CHEMISTRY*, 179(8):2506–2510, AUG 2006. doi:{10.1016/j.jssc.2006.04.049}.

[161] E. A. Sherstobitova, A. F. Gubkin, A. A. Ermakov, A. V. Zakharov, N. V. Baranov, Yu. A. Dorofeev, A. N. Pirogov, A. A. Podlesnyak, and V. Yu. Pomyakushin. The concentration metamagnetic transition in Tm1-xTbxCo2 compounds. *PHYSICS OF THE SOLID STATE*, 48(7):1321–1327, JUL 2006. doi:{10.1134/S1063783406070171}.

[162] A Grytsiv, P Rogl, and V Pomjakushin. Structural transition with loss of symmetry in Ti-M-Al based G-phases (M equivalent to Fe and Co). *INTERMETALLICS*, 14(7):784–791, JUN 2006. doi:{10.1016/j.intermet.2005.12.001}.

[163] C de la Calle, JA Alonso, M Garcia-Hernandez, and V Pomjakushin. Neutron diffraction study and magnetotransport properties of stoichiometric CaMoO3 perovskite prepared by a soft-chemistry route. *JOURNAL OF SOLID STATE CHEMISTRY*, 179(6):1636–1641, JUN 2006. doi:{10.1016/j.jssc.2006.02.022}.

[164] S. N. Gvasaliya, V. Pomjakushin, B. Roessli, Th. Straessle, S. Klotz, and S. G. Lushnikov. Anomalous pressure dependence of the atomic displacements in the relaxor ferroelectric PbMg1/3Ta2/3O3. *PHYSICAL REVIEW B*, 73(21), JUN 2006. doi:{10.1103/PhysRevB.73.212102}.

[165] N. A. Babushkina, E. A. Chistotina, A. M. Balagurov, V. Yu. Pomjakushin, O. Yu. Gorbenko, A. R. Kaul, and M. S. Kartavtseva. Isotope effect and cation disorder in manganites. *JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS*, 300(1):E114–E117, MAY 2006. doi:{10.1016/j.jmmm.2005.10.161}.

[166] Xinlin Yan, Xing-Qiu Chen, A. Grytsiva, V. T. Witusiewicz, P. Rogl, R. Podloucky, V. Pomjakushin, and G. Giester. Site preference, thermodynamic, and magnetic properties of the ternary Laves phase Ti(Fe1-xAlx)(2) with the crystal structure of. the MgZn2-type. *INTERNATIONAL JOURNAL OF MATERIALS RESEARCH*, 97(4):450–460, APR 2006.

[167] VN Duginov, KI Gritsaj, VY Pomjakushin, AN Ponomarev, AA Nezhivoy, AV Gribanov, VN Nikiforov, and YD Seropegin. A mu SR study of the magnetic properties of Ce3Pd20Ge6. *PHYSICA B-CONDENSED MATTER*, 374:192–194, MAR 31 2006. 10th International Conference on Muon Spin

Rotation, Relaxation and Resonance, Oxford Univ, St Annes Coll, Dept Phys, Oxford, ENGLAND, AUG 08-12, 2005. doi:{10.1016/j.physb.2005.11.052}.

[168] E Pomjakushina, K Conder, and V Pomjakushin. Orbital order-disorder transition with volume collapse in HoBaCo2O5.5: A high-resolution neutron diffraction study. *PHYSICAL REVIEW B*, 73(11), MAR 2006. doi:{10.1103/PhysRevB.73.113105}.

[169] A. Aguadero, M. J. Escudero, M. Perez, J. A. Alonso, V. Pomjakushin, and L. Daza. Effect of Sr content on the crystal structure and electrical properties of the system La2-xSrxNiO4+delta (0 ¡= x ¡= 1). *DALTON TRANSACTIONS*, (36):4377–4383, 2006. doi:{10.1039/b606316k}.

[170] JA Alonso, MJ Martinez-Lope, C de la Calle, and V Pomjakushin. Preparation and structural study from neutron diffraction data of RCoO3 (R = Pr, Tb, Dy, Ho, Er, Tm, Yb, Lu) perovskites. *JOURNAL OF MATERIALS CHEMISTRY*, 16(16):1555–1560, 2006. doi:{10.1039/b515607f}.

[171] Andriy Grytsiv, Xing-Qiu Chen, Viktor T. Witusiewicz, Peter Rogl, Raimund Podloucky, Vladimir Pomjakushin, Daniele Maccio, Adriana Saccone, Gerald Giester, and Ferdinand Sommer. Atom order and thermodynamic properties of the ternary Laves phase Ti(TiyNixAl1-x-y)(2). *ZEITSCHRIFT FUR KRISTALLOGRAPHIE*, 221(5-7):334–348, 2006. doi:{10.1524/zkri.2006.221.5-7.334}.

[172] P Fischer, V Pomjakushin, L Keller, A Daoud-Aladine, W Sikora, A Dommann, and F Hulliger. Antiferromagnetic three-sublattice tb ordering in Tb14Ag51. *PHYSICAL REVIEW B*, 72(13), OCT 2005. doi:{10.1103/PhysRevB.72.134413}.

[173] K Conder, E Pomjakushina, V Pomjakushin, M Stingaciu, S Streule, and A Podlesnyak. Oxygen isotope effect on metal-insulator transition in layered cobaltites RBaCo2O5.5 (R = Pr, Dy, Ho and Y). *JOURNAL OF PHYSICS-CONDENSED MATTER*, 17(37):5813–5820, SEP 21 2005. doi:{10.1088/0953-8984/17/37/016}.

[174] JA Alonso, MJ Martinez-Lope, MT Casais, JL Martinez, and V Pomjakushin. Synthesis, structural, and magnetic characterization of YCrMnO5. *EUROPEAN JOURNAL OF INORGANIC CHEMISTRY*, (13):2600–2606, JUL 4 2005. doi:{10.1002/ejic.200401057}.

[175] A Grytsiv, P Rogl, G Giester, and V Pomjakushin. Crystal chemistry of the G-phase region in the Ti-Co-Al system. *INTERMETALLICS*, 13(5):497–509, MAY 2005. doi:{10.1016/j.intermet.2004.09.004}.

[176] NA Babushkina, EA Chistotina, IA Bobrikov, AM Balagurov, VY Pomjakushin, AI Kurbakov, VA Trunov, Y Gorbenko, R Kaul, and KI Kugel. The effect of oxygen isotope substitution on the phase diagram of nearly half-doped R1-xSrxMnO3 manganites (R = Sm, NdTb, NdEu). *JOURNAL OF PHYSICS-CONDENSED MATTER*, 17(12):1975–1984, MAR 30 2005. doi:{10.1088/0953-8984/17/12/019}.

[177] S Klotz, T Strassle, G Rousse, G Hamel, and V Pomjakushin. Angle-dispersive neutron diffraction under high pressure to 10 GPa. *APPLIED PHYSICS LETTERS*, 86(3), JAN 17 2005. doi:{10.1063/1.1855419}.

[178] Anatoly Balagurov, Ivan Bobrikov, Vladimir Pomjakushin, Natalia Babushkina, Oleg Gorbenko, and Anrej Kaul. Structural Reasons for the Giant Oxygen Isotope Effect in Re0.5Sr0.5MnO3 Perovskites. *ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES*, 61(S):C388, 2005. doi:{10.1107/S0108767305083571}.

[179] AM Balagurov, IA Bobrikov, VY Pomyakushin, DV Sheptyakov, NA Babushkina, OY Gorbenko, MS Kartavtseva, and AR Kaul'. Magnetostructural phase separation and giant isotope effect in R0.5Sr0.5MnO3. *JETP LETTERS*, 82(9):594–598, 2005. doi:{10.1134/1.2161288}.

[180] AI Kurbakov, VA Trounov, AM Balagurov, VY Pomyakushin, DV Sheptyakov, OY Gorbenko, and AR Kaul. Crystal and magnetic structure of the SM0.55Sr0.45MnO3 and (Nd0.545Tb0.455)(0.55)Sr0.45MnO3 manganites. *PHYSICS OF THE SOLID STATE*, 46(9):1704–1710, SEP 2004. doi:{10.1134/1.1799190}.

[181] RV Shpanchenko, VV Chernaya, AA Tsirlin, PS Chizhov, DE Sklovsky, EV Antipov, EP Khlybov, V Pomjakushin, AM Balagurov, JE Medvedeva, EE Kaul, and C Geibel. Synthesis, structure, and properties of new perovskite PbVO3. *CHEMISTRY OF MATERIALS*, 16(17):3267–3273, AUG 24 2004. doi:{10.1021/cm049310x}.

[182] L Keller, V Pomjakushin, K Conder, and A Schenck. Quadrupolar and dipolar magnetic order in DyPd3S4: A neutron scattering and muon spin rotation and relaxation investigation. *PHYSICAL REVIEW B*, 70(6), AUG 2004. doi:{10.1103/PhysRevB.70.060407}.

[183] Anatoli M. Balagurov, Vladimir Yu. Pomjakushin, Denis V. Sheptyakov, Nataliya A. Babushkina, Oleg Yu. Gorbenko, and Andrej R. Kaul. Comparative study of the magnetic phase diagrams of (La1-yPry)(0.7)Ca0.3MnO3 with oxygen isotopes O-16 and O-18. *PHYSICA B-CONDENSED MATTER*, 350(1-3, 1):E1–E3, JUL 15 2004. doi:{10.1016/j.physb.2004.03.001}.

[184] V. Pomjakushin, D. Sheptyakov, P. Fischer, A. Balagurov, A. Abakumov, M. Alekseeva, M. Rozova, and E. Antipov. Atomic and magnetic structures, phase separation, and unconventional superexchange interactions in Sr(2)GaMnO(5+x) (0 ¡ x ¡ 0.5) and Sr(2)GaMn(O,F)(6). *PHYSICA B-CONDENSED MATTER*, 350(1-3, 1):E23–E26, JUL 15 2004. doi:{10.1016/j.physb.2004.03.014}.

[185] V. V. Sikolenko, E. V. Pomjakushina, V. Yu. Pomjakushin, A. V. Gribanov, U. Zimmermann, A. Kurbakov, D. P. Kozlenko, I. N. Goncharenko, and A. M. Balagurov. Modulated spin-density waves in uranium intermetallic compounds with ThCr(2)Si(2) structure. *PHYSICA B-CONDENSED MATTER*, 350(1-3, 1):E163–E166, JUL 15 2004. doi:{10.1016/j.physb.2004.03.043}.

[186] JA Alonso, F Rivillas, MJ Martinez-Lope, and V Pomjakushin. Preparation and structural study from neutron diffraction data of R2MoO6 (R= Dy, Ho, Er, Tm, Yb, Y). *JOURNAL OF SOLID STATE CHEMISTRY*, 177(7):2470–2476, JUL 2004. doi:{10.1016/j.jssc.2004.03.046}.

[187] AM Balagurov, SN Bushmeleva, VY Pomjakushin, DV Sheptyakov, VA Amelichev, OY Gorbenko, AR Kaul, EA Gan'shina, and NB Perkins. Magnetic structure of NdMnO3 consistently doped with Sr and Ru. *PHYSICAL REVIEW B*, 70(1), JUL 2004. doi:{10.1103/PhysRevB.70.014427}.

[188] A Grytsiv, P Rogl, H Schmidt, G Giester, P Hundegger, G Wiesinger, and V Pomjakushin. Formation and crystal chemistry of cubic ternary phases with filled Th6Mn23-type and AuCu3-type in the systems Ti-M-VIII-Al. *INTERMETALLICS*, 12(5):563–577, MAY 2004. doi:{10.1016/j.intermet.2004.02.002}.

[189] V Pomjakushin, D Sheptyakov, P Fischer, A Balagurov, A Abakumov, M Alekseeva, M Rozova, E Antipov, D Khomskii, and V Yushankhai. Atomic and magnetic structures, and unconventional superexchange interactions in Sr2GaMnO5+x (0 ¡ x ¡ 0.5) and Sr2GaMn(O,F)(6). *JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS*, 272(2, SI):820–822, MAY 2004. International Conference on Magnetism (ICM 2003), Rome, ITALY, JUL 27-AUG 01, 2003. doi:{10.1016/j.jmmm.2003.11.336}.

[190] VL Aksenov, AM Balagurov, and VY Pomyakushin. Neutron diffraction analysis of doped manganites. *PHYSICS-USPEKHI*, 46(8):856–860, AUG 2003. Joint Scientific Session of the Physical Sciences Division of the Russian-Academy-of-Sciences/Joint Physical-Society-of-the-Russian-Federation, MOSCOW, RUSSIA, MAR 26, 2003. doi:{10.1070/PU2003v046n08ABEH001650}.

[191] VV Sikolenko, DP Kozlenko, EV Pomjakushina, VY Pomjakushin, AM Balagurov, L Keller, VP Glazkov, AV Gribanov, IN Goncharenko, and BN Savenko. Structural study of U(Pd1-xFex)(2)Ge-2 at high pressure. *JOURNAL OF PHYSICS-CONDENSED MATTER*, 15(17):2825–2832, MAY 7 2003. doi:{10.1088/0953-8984/15/17/331}.

[192] AM Balagurov, VY Pomjakushin, DV Sheptyakov, and NA Babushkina. Oxygen-isotope effect on crystal and magnetic structures of (La1-yPry)(0.7)Ca0.3MnO3. *APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING*, 74(2, S):S1737–S1739, DEC 2002. International Conference on Neutron Scattering, MUNICH, GERMANY, SEP 09-13, 2001. doi:{10.1007/s003390201843}.

[193] DV Sheptyakov, AM Abakumov, EV Antipov, AM Balagurov, SJL Billinge, P Fischer, L Keller, MV Lobanov, BP Pavlyuk, VY Pomjakushin, and MG Rozova. Crystal and magnetic structures of new layered oxides A(2)GaMnO(5+y) (A=Ca,Sr). *APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING*, 74(2, S):S1734–S1736, DEC 2002. International Conference on Neutron Scattering, MUNICH, GERMANY, SEP 09-13, 2001. doi:{10.1007/s003390201842}.

[194] VY Pomjakushin, AM Balagurov, TV Elzhov, DV Sheptyakov, P Fischer, DI Khomskii, VY Yushankhai, AM Abakumov, MG Rozova, EV Antipov, MV Lobanov, and SJL Billinge. Atomic and magnetic structures, disorder effects, and unconventional superexchange interactions in A(2)MnGaO(5+delta) (A = Sr, Ca) oxides of layered brownmillerite-type structure. *PHYSICAL REVIEW B*, 66(18), NOV 1 2002. doi:{10.1103/PhysRevB.66.184412}.

[195] A Lappas, V Alexandrakis, J Giapintzakis, V Pomjakushin, K Prassides, and A Schenck. Impurity-induced antiferromagnetic order in the Haldane-gap compound PbNi2-xMgxV2O8 (x=0.24). *PHYSICAL REVIEW B*, 66(1), JUL 1 2002. doi:{10.1103/PhysRevB.66.014428}.

[196] A. M. Balagurov, V. Yu. Pomjakushin, A. M. Abakumov, E. V. Antipov, M. V. Lobanov, P. Fischer, and D. V. Sheptyakov. CRYSTAL AND MAGNETIC STRUCTURES OF LAYERED Sr2MnGaO5+x

OXIDES. *ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES*, 58(S):C337, 2002. doi:{10.1107/S0108767302098458}.

[197] IV Golosovsky, I Mirebeau, AS Markosyan, P Fischer, and VY Pomjakushin. Neutron diffraction study of the magnetic order in the Dy(Mn1-xAlx)(2) system in the region of a magnetic instability. *PHYSICAL REVIEW B*, 65(1), JAN 1 2002. doi:{10.1103/PhysRevB.65.014405}.

[198] AM Balagurov, VY Pomjakushin, DV Sheptyakov, VL Aksenov, P Fischer, L Keller, OY Gorbenko, AR Kaul, and NA Babushkina. Long-scale phase separation versus homogeneous magnetic state in (La1-yPry)(0.7)Ca0.3MnO3: A neutron diffraction study. *PHYSICAL REVIEW B*, 64(2), JUL 1 2001. doi:{10.1103/PhysRevB.64.024420}.

[199] AM Balagurov, VY Pomjakushin, DV Sheptyakov, VL Aksenov, NA Babushkina, LM Belova, OY Gorbenko, and AR Kaul. Evolution of (La1-yPry)(0.7)Ca0.3MnO3 crystal structure with A-cation size, temperature, and oxygen isotope substitution. *EUROPEAN PHYSICAL JOURNAL B*, 19(2):215–223, JAN 2001. doi:{10.1007/s100510170330}.

[200] VY Pomjakushin, AM Balagurov, AA Zakharov, FN Gygax, A Schenck, A Amato, and D Herlach. Concomitance of magnetic ordering and superconductivity in low oxygen mobility La2CuO4+x single crystals. *PHYSICA C*, 341(4):2153–2154, NOV 2000. International Conference on Materials and Mechanisms of Superconductivity High Temperature Superconductors VI, HOUSTON, TEXAS, FEB 20-25, 2000. doi:{10.1016/S0921-4534(00)01137-0}.

[201] VY Pomjakushin, AM Balagurov, EV Raspopina, VV Sikolenko, AV Gribanov, A Schenck, A Amato, U Zimmermann, and IS Lyubutin. Modulated magnetic structure of U(Pd1-xFex)(2)Ge-2 studied by mu SR. *JOURNAL OF PHYSICS-CONDENSED MATTER*, 12(36):7969–7981, SEP 11 2000. doi:{10.1088/0953-8984/12/36/311}.

[202] VN Duginov, KI Gritsaj, A Amato, C Baines, D Herlach, VY Pomjakushin, U Zimmermann, AN Ponomarev, IA Krivosheev, AA Nezhivoy, AV Gribanov, VN Nikiforov, and YD Seropegin. Study of the magnetic properties of Ce3Pd20Si6 compound. *PHYSICA B*, 289:43–46, AUG 2000. 8th International Conference on Muon Spin Rotation, Relaxation and Resonance, LES DIABLERETS, SWITZERLAND, AUG 30-SEP 03, 1999. doi:{10.1016/S0921-4526(00)00249-0}.

[203] Pomjakushin. Magnetic order in pure LaMnO3 and in Ca-doped single crystals - Comments. *PHYSICA B*, 289:55, AUG 2000.

[204] AN Ponomarev, IG Ivanter, IA Krivosheev, AA Nezhivoy, BA Nikolsky, VN Duginov, KI Gritsaj, VG Olshevsky, D Herlach, VY Pomjakushin, and U Zimmermann. Magnetic fields acting on muons in textured and single crystalline holmium. *PHYSICA B*, 289:236–239, AUG 2000. 8th International Conference on Muon Spin Rotation, Relaxation and Resonance, LES DIABLERETS, SWITZERLAND, AUG 30-SEP 03, 1999. doi:{10.1016/S0921-4526(00)00377-X}.

[205] EV Raspopina, AM Balagurov, VY Pomjakushin, VV Sikolenko, AV Gribanov, A Amato, and A Schenck. Magnetic structure of U(Pd1-xFex)(2)Ge-2 studied by mu SR: comparison with neutron diffraction data. *PHYSICA B*, 289:282–285, AUG 2000. 8th International Conference on Muon Spin Rotation, Relaxation and Resonance, LES DIABLERETS, SWITZERLAND, AUG 30-SEP 03, 1999. doi:{10.1016/S0921-4526(00)00393-8}.

[206] J Schefer, M Bohm, L Keller, M Medarde, M Horisberger, P Fischer, V Pomjakushin, and A Donni. Application of composite Germanium neutron monochromators at SINQ: neutron powder diffraction (HRPT) and single crystal diffraction (TriCS). *PHYSICA B*, 283(4):302–304, JUN 2000. European Workshop on Neutron Optics for the Next Millennium (NOP 99), PAUL SCHERRER INST, VILLIGEN, SWITZERLAND, NOV 25-27, 1999. doi:{10.1016/S0921-4526(00)00319-7}.

[207] NA Babushkina, LM Belova, AN Taldenkov, VL Aksenov, AM Balagurov, VY Pomjakushin, DV Sheptyakov, OY Gorbenko, AR Kaul, KI Kugel, and DI Khomskii. Isotopically driven transitions in LaPrCaMnO system. *PHYSICA B*, 280(1-4):323–324, MAY 2000. 22nd International Conference on Low Temperature Physics, HELSINKI UNIV TECHNOL, HELSINKI, FINLAND, AUG 04-11, 1999. doi:{10.1016/S0921-4526(99)01716-0}.

[208] MV Lobanov, AM Balagurov, VJ Pomjakushin, P Fischer, M Gutmann, AM Abakumov, OG D'yachenko, EV Antipov, OI Lebedev, and G Van Tendeloo. Structural and magnetic properties of the colossal magnetoresistance perovskite La0.85Ca0.15MnO3. *PHYSICAL REVIEW B*, 61(13):8941–8949, APR 1 2000. doi:{10.1103/PhysRevB.61.8941}.

[209] P Fischer, G Frey, M Koch, M Konnecke, V Pomjakushin, J Schefer, R Thut, N Schlumpf, R Burge, U Greuter, S Bondt, and E Berruyer. High-resolution powder diffractometer HRPT for thermal neutrons at SINQ. *PHYSICA B*, 276:146–147, MAR 2000. 2nd European Conference on Neutron Scattering (ECNS 99), BUDAPEST, HUNGARY, SEP 01-04, 1999. doi:{10.1016/S0921-4526(99)01399-X}.

[210] AM Balagurov, P Fischer, VY Pomjakushin, DV Sheptyakov, and VL Aksenov. Atomic and magnetic structure of perovskite manganites: A-cation size and oxygen isotope substitution effects and homogeneity of magnetic state. *PHYSICA B*, 276:536–539, MAR 2000. 2nd European Conference on Neutron Scattering (ECNS 99), BUDAPEST, HUNGARY, SEP 01-04, 1999. doi:{10.1016/S0921-4526(99)01748-2}.

[211] KG Bramnik, G Miehe, H Ehrenberg, H Fuess, AM Abakumov, RV Shpanchenko, VY Pomjakushin, and AM Balagurov. Preparation, structure, and magnetic studies of a new Sr11Re4O24 double oxide. *JOURNAL OF SOLID STATE CHEMISTRY*, 149(1):49–55, JAN 2000. doi:{10.1006/jssc.1999.8493}.

[212] DV Sheptyakov, VY Pomjakushin, AM Balagurov, AA Zakharov, C Chaillout-Bougerol, and GJ McIntyre. Structure of non-phase-separated La2CuO4.03 studied by single-crystal neutron diffraction. *PHYSICA C*, 321(1-2):103–107, AUG 1 1999. doi:{10.1016/S0921-4534(99)00376-7}.

[213] AM Balagurov, VY Pomjakushin, DV Sheptyakov, VL Aksenov, NA Babushkina, LM Belova, AN Taldenkov, AV Inyushkin, P Fischer, M Gutmann, L Keller, OY Gorbenko, and AR Kaul. Effect of oxygen isotope substitution on tbe magnetic structure of (La0.25Pr0.75)(0.7)Ca0.3MnO3. *PHYSICAL REVIEW B*, 60(1):383–387, JUL 1 1999. doi:{10.1103/PhysRevB.60.383}.

[214] AM Balagurov, VY Pomyakushin, DV Sheptyakov, VL Aksenov, NA Babushkina, AM Belova, AN Taldenkov, AV Inyushkin, P Fischer, M Gutmann, L Keller, OY Gorbenko, VA Amelichev, and AR Kaul'. Changes in the magnetic structure of (La0.25Pr0.75)(0.7)Ca0.3MnO3 upon the isotopic substitution of O-18 for O-16. *JETP LETTERS*, 69(1):50–56, JAN 10 1999. doi:{10.1134/1.567983}.

[215] V. Yu. Pomjakushin, A. M. Balagurov, D. V. Sheptyakov, P. Fischer, and N. A. Babushkina. EFFECT OF OXYGEN ISOTOPE SUBSTITUTION ON MAGNETIC STRUCTURE OF (LA0.25PR0.75)0.7CA0.3MNO3. *ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES*, 55(S):179, 1999.

[216] D. V. Sheptyakov, A. M. Balagurov, V. Yu. Pomjakushin, V. L. Aksenov, N. A. Babushkina, L. M. Belova, O. Yu. Gorbenko, A. R. Kaul, P. Fischer, M. Gutmann, and L. Keller. PECULIARITIES OF ATOMIC AND MAGNETIC STRUCTURES OF (La1-yPry)(0.7)Ca0.3MnO3 (0.50 ¡= y ¡= 0.75). *ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES*, 55(S):180, 1999.

[217] A. M. Balagurov, V. Yu. Pomjakushin, and V. G. Simkin. HIGH-RESOLUTION NEUTRON FOURIER DIFFRACTION FOR POWDERS AND SINGLE CRYSTALS. *ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES*, 55(S):222, 1999.

[218] AM Balagurov, AI Beskrovnii, VY Pomyakushin, VG Simkin, BS Bagautdinov, VS Shekhtman, and AA Zakharov. Twinned La2CuO4 structure. *CRYSTALLOGRAPHY REPORTS*, 44(1):69–77, JAN-FEB 1999.

[219] YV Obukhov, VY Pomjakushin, and AA Zakharov. Dynamics of the phase separation of La2CUO4+X single crystals. In Kossowsky, R and Bose, S and Pan, V and Durusoy, Z, editor, *PHYSICS AND MATERIALS SCIENCE OF VORTEX STATES, FLUX PINNING AND DYNAMICS*, volume 356 of *NATO ADVANCED SCIENCE INSTITUTES SERIES, SERIES E, APPLIED SCIENCES*, pages 659–666. NATO, Scientif Affairs Div; Natl Sci Fdn, US, 1999. NATO Advanced Study Institute on Physics and Materials Science of Vortex States, Flux Pinning and Dynamics, KUSADASI, TURKEY, JUL 26-AUG 08, 1998.

[220] AN Pirogov, AE Teplykh, VI Voronin, AE Kar'kin, AM Balagurov, VY Pomyakushin, VV Sikolenko, AN Petrov, VA Cherepanov, and EA Filonova. Ferro- and antiferromagnetic ordering in LaMnO3+delta. *PHYSICS OF THE SOLID STATE*, 41(1):91–96, JAN 1999. doi:{10.1134/1.1130735}.

[221] VY Pomjakushin, AA Zakharov, AM Balagurov, FN Gygax, A Schenck, A Amato, D Herlach, AI Beskrovny, VN Duginov, YV Obukhov, AN Ponomarev, and SN Barilo. Microscopic phase separation in La2CuO4+x induced by the superconducting transition. *PHYSICAL REVIEW B*, 58(18):12350–12354, NOV 1 1998. doi:{10.1103/PhysRevB.58.12350}.

[222] AM Balagurov, VY Pomyakushin, VL Aksenov, NM Plakida, NA Babushkina, LM Belova, OY Gorbenko, AR Kaul', P Fischer, M Gutmann, and L Keller. Behavior of the atomic and magnetic structure of La0.35Pr0.35Ca0.30MnO3 at a metal-insulator phase transition. *JETP LETTERS*, 67(9):705–711, MAY 10 1998.

[223] VY Pomjakushin, A Amato, AM Balagurov, AI Beskrovny, VN Duginov, FN Gygax, D Herlach, AN Ponomarev, A Schenck, VG Simkin, and AA Zakharov. Phase separation in La2CuO4+y single crystals studied by mu SR and neutron diffraction. *PHYSICA C*, 282(3):1353–1354, AUG 1997. International Conference on Materials and Mechanisms of Superconductivity - High Temperature Superconductors V, BEIJING, PEOPLES R CHINA, FEB 28-MAR 04, 1997. doi:{10.1016/S0921-4534(97)00758-2}.

[224] AM Balagurov, VY Pomjakushin, VG Simkin, and AA Zakharov. Single-crystal diffraction study of phase separation in La2CuO4+delta. *PHYSICA B*, 234:797–799, JUN 1997. 1st European Conference on Neutron Scattering (ECNS 96), INTERLAKEN, SWITZERLAND, OCT 08-11, 1996. doi:{10.1016/S0921-4526(96)01099-X}.

[225] VN Duginov, VG Grebinnik, KI Gritsaj, TN Mamedov, VG Olshevsky, VY Pomjakushin, VA Zhukov, IA Krivosheev, AN Ponomarev, VN Nikiforov, YD Seropegin, M Baran, and H Szymczak. mu SR study of the intermediate heavy-fermion system CeRuSi2. *PHYSICAL REVIEW B*, 55(18):12343–12347, MAY 1 1997. doi:{10.1103/PhysRevB.55.12343}.

[226] IA Krivosheev, AA Nezhivoi, BA Nikolskii, AN Ponomarev, VN Duginov, VG Olshevskii, and VY Pomyakushin. Investigation of the magnetic structure of holmium by the muonic method. *JETP LETTERS*, 65(1):81–85, JAN 10 1997. doi:{10.1134/1.567329}.

[227] VY Pomjakushin, A Amato, VN Duginov, FN Gygax, D Herlach, AN Ponomarev, A Schenck, and AA Zakharov. Spin-freezing in superconducting La2CuO4.03 single crystal. *HYPERFINE INTERACTIONS*, 105(1-4):83–88, 1997. 7th International Conference on Muon Spin Rotation, Relaxation, Resonance, NIKKO, JAPAN, APR 15-19, 1996. doi:{10.1023/A:1012610212017}.

[228] TN Mamedov, IL Chaplygin, VN Duginov, VG Grebinnik, KI Gritsaj, VG Olshevsky, VY Pomjakushin, AV Stoykov, VA Zhukov, IA Krivosheev, BA Nikolsky, AN Ponomarev, and VN Gorelkin. Anomalous frequency shift of negative muon spin precession in n-type silicon. *HYPERFINE INTERACTIONS*, 105(1-4):345–349, 1997. 7th International Conference on Muon Spin Rotation, Relaxation, Resonance, NIKKO, JAPAN, APR 15-19, 1996. doi:{10.1023/A:1012688329281}.

[229] IA Krivosheev, VN Duginov, VG Grebinnik, KI Gritsaj, TN Mamedov, VN Nikiforov, VG Olshevsky, VY Pomjakushin, AN Ponomarev, YD Seropegin, VA Zhukov, M Baran, and H Szymczak. mu SR study of intermediate heavy fermion system CeRuSi2. *HYPERFINE INTERACTIONS*, 104(1-4):187–192, 1997. 7th International Conference on Muon Spin Rotation, Relaxation, Resonance, NIKKO, JAPAN, APR 15-19, 1996. doi:{10.1023/A:1012679810684}.

[230] Y Obukhov, VY Pomjakushin, AA Zakharov, and AA Nikonov. Superconductivity in the La2CuO4.03 single crystal system. In Kossowsky, R and Jelinek, M and Novak, J, editor, *PHYSICS AND MATERIALS SCIENCE OF HIGH TEMPERATURE SUPERCONDUCTORS, IV*, volume 26 of *NATO ADVANCED SCIENCE INSTITUTE SERIES, SUB-SERIES 3, HIGH TECHNOLOGY*, pages 179–185. NATO, Sci Affairs Div; USA, European Res Off, London, UK; Natl Sci Fdn, US; Inst Elect Engn, SR, 1997. 4th NATO Advanced Research Workshop on Physics and Materials Science of High Temperature Superconductors, STRAZSKE, SLOVAKIA, JUL 21-27, 1996.

[231] VY Pomjakushin, AA Zakharov, A Amato, VN Duginov, FN Gygax, D Herlach, AN Ponomarev, and A Schenck. Spin-glass ordering in non phase separated La2CuO4.03 studied by mu SR. *PHYSICA C*, 272(3-4):250–256, DEC 1 1996. doi:{10.1016/S0921-4534(96)00610-7}.

[232] AM Balagurov, VY Pomjakushin, VG Simkin, and AA Zakharov. Neutron diffraction study of phase separation in La2CuO4+delta single crystals. *PHYSICA C*, 272(3-4):277–284, DEC 1 1996. doi:{10.1016/S0921-4534(96)00582-5}.

[233] AM Balagurov, VY Pomyakushin, VG Simkin, and AA Zakharov. Neutron diffraction investigation of phase separation in La2CuO4+y single crystals. *JETP LETTERS*, 64(4):279–284, AUG 25 1996. doi:{10.1134/1.567184}.

[234] VN Gorelkin, VG Grebinnik, KI Gritsai, VN Duginov, VA Zhukov, TN Mamedov, VG Olshevskii, VY Pomyakushin, AV Stoikov, IL Chaplygin, IA Krivosheev, BA Nikolskii, and AN Ponomarev. Relaxation and shift of the precession frequency of the spin of a negative muon in n-type silicon. *JETP LETTERS*, 63(7):566–571, APR 10 1996. doi:{10.1134/1.567065}.

[235] VG Grebinnik, KI Gritsai, VN Duginov, VA Zhukov, BF Kirillov, YA Koksharov, IA Krivosheev, TN Mamedov, VN Nikiforov, BA Nikolsky, VG Olshevsky, AV Pirogov, VY Pomyakushin, AN Ponomarev, and VA Suetin. mu SR and ESR investigations of cupric oxide. *PHYSICS OF ATOMIC NUCLEI*, 59(2):195–198, FEB 1996.

[236] A. M. Balagurov, V. G. Simkin, V. Yu. Pomyakushin, and A. A. Zacharov. NEUTRON HIGH RESOLUTION SINGLE CRYSTAL DIFFRACTION STUDY OF PHASE SEPARATION PHENOMENON IN La2CuO4+delta. *ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES*, 52(S):C382, 1996. doi:{10.1107/S0108767396084255}.

[237] VG GREBINNIK, VN DUGINOV, VA ZHUKOV, EA KRAVCHENKO, IA KRIVOSHEEV, TN MAMEDOV, BA NIKOLSKII, VG OLSHEVSKII, VG ORLOV, VY POMYAKUSHIN, AN PONOMAREV, and VA SUETIN. STUDY OF ALPHA-BI2O3 BISMUTH OXIDE BY MUON METHODS. *ZHURNAL EKSPERIMENTALNOI I TEORETICHESKOI FIZIKI*, 108(3):878–884, SEP 1995.

[238] VN DUGINOV, VG GREBINNIK, R HORYN, BF KIRILLOV, J KLAMUT, IA KRIVOSHEEV, TN MAMEDOV, VG OLSHEVSKY, AV PIROGOV, VY POMJAKUSHIN, AN PONOMAREV, AJ ZALESKI, and VA ZHUKOV. MAGNETIC TRANSITIONS IN Y2CU2O5 STUDIED BY MU-SR. *JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS*, 140(3):1577–1578, FEB 1995. International Conference on Magnetism - ICM 94 (13th IUPAP Triennial Conference on Magnetism), WARSAW, POLAND, AUG 22-26, 1994. doi:{10.1016/0304-8853(94)00976-7}.

[239] VY POMJAKUSHIN, S KAPUSTA, VN DUGINOV, VG GREBINNIK, KI GRITSAJ, BF KIRILLOV, IA KRIVOSHEEV, TN MAMEDOV, FC MATACOTTA, P NOZAR, VG OLSHEVSKY, AV PIROGOV, AN PONOMAREV, and VA ZHUKOV. MAGNETIC PENETRATION DEPTH IN BAPB1-XBIXO3 MEASURED BY MU-SR. *PHYSICA C*, 235(3):1817–1818, DEC 1994. doi:{10.1016/0921-4534(94)92130-X}.

[240] EP KRASNOPEROV, EE MEILIKHOV, AN PONOMAREV, VY POMYAKUSHIN, DG ESHCHENKO, VN DUGINOV, VA ZHUKOV, TN MAMEDOV, and VG OLSHEVSKII. FORMATION OF MUONIUM IN CONDENSED NEON. *JETP LETTERS*, 59(11):749–752, JUN 10 1994.

[241] EI KORNILOV and VY POMJAKUSHIN. STRONG COLLISION APPROACH TO CALCULATION OF THE DEPOLARIZATION FUNCTION FOR NEUTRON BEAM PASSING THROUGH BULK FERROMAGNETIC DOMAINS. *SOLID STATE COMMUNICATIONS*, 89(9):767–770, MAR 1994. doi:{10.1016/0038-1098(94)90729-3}.

[242] V STORCHAK, BF KIRILLOV, AV PIROGOV, VN DUGINOV, VG GREBINNIK, VG OLSHEVSKY, VY POMYAKUSHIN, AB LAZAREV, SN SHILOV, and VA ZHUKOV. ANTIFERROMAGNETIC PROPERTIES OF SOLID OXYGEN STUDIED BY POSITIVE MUONS. *PHYSICS LETTERS A*, 185(3):338–342, FEB 14 1994. doi:{10.1016/0375-9601(94)90625-4}.

[243] TN MAMEDOV, VN DUGINOV, VG GREBINNIK, KI GRITSAJ, VG OLSHEVSKY, VY POMJAKUSHIN, VA ZHUKOV, BF KIRILLOV, BA NIKOLSKY, AV PIROGOV, AN PONOMAREV, VA SUETIN, and VN GORELKIN. INVESTIGATION OF THE BEHAVIOR OF THE IMPURITY ATOMS IN SI BY MU-SR-METHOD. *HYPERFINE INTERACTIONS*, 86(1-4):717–722, 1994. 6th International Conference on Muon Spin Rotation/Relaxation/Resonance, MAUI, HI, MAY 31-JUN 11, 1993. doi:{10.1007/BF02068969}.

[244] VN DUGINOV, VG GREBINNIK, TN MAMEDOV, VG OLSHEVSKY, VY POMJAKUSHIN, VA ZHUKOV, BF KIRILLOV, BA NIKOLSKY, VG ORLOV, AV PIROGOV, AN PONOMAREV, VA SUETIN, and EA KRAVCHENKO. STUDY OF LOCAL MAGNETIC-FIELDS IN THE OXIDE ALPHA-BI2O3 BY NQR AND MU-SR TECHNIQUES. *HYPERFINE INTERACTIONS*, 85(1-4):197–202, 1994. 6th International Conference on Muon Spin Rotation/Relaxation/Resonance, MAUI, HI, MAY 31-JUN 11, 1993. doi:{10.1007/BF02069421}.

[245] VY POMJAKUSHIN, VN DUGINOV, VG GREBINNIK, BF KIRILLOV, TN MAMEDOV, VG OLSHEVSKY, AV PIROGOV, AN PONOMAREV, and VA ZHUKOV. NONZERO INITIAL MUON PRECESSION PHASE IN AF LA2CUO4-Y. *HYPERFINE INTERACTIONS*, 85(1-4):305–310, 1994. 6th International Conference on Muon Spin Rotation/Relaxation/Resonance, MAUI, HI, MAY 31-JUN 11, 1993. doi:{10.1007/BF02069439}.

[246] VN DUGINOV, VG GREBINNIK, R HORYN, BF KIRILLOV, J KLAMUT, IA KRIVOSHEEV, TN MAMEDOV, VG OLSHEVSKY, AV PIROGOV, VY POMJAKUSHIN, AN PONOMAREV, AJ ZALESKI, and VA ZHUKOV. 2 SUCCESSIVE MAGNETIC TRANSITIONS IN Y2CU2O5 STUDIED BY MU-SR. *HYPERFINE INTERACTIONS*, 85(1-4):311–316, 1994. 6th International Conference on Muon Spin Rotation/Relaxation/Resonance, MAUI, HI, MAY 31-JUN 11, 1993. doi:{10.1007/BF02069440}.

[247] VN DUGINOV, VG GREBINNIK, KI GRITSAJ, TN MAMEDOV, VG OLSHEVSKY, VY POMJAKUSHIN, VA ZHUKOV, BF KIRILLOV, IA KRIVOSHEEV, AV PIROGOV, and AN PONOMAREV.

MU-SR INVESTIGATION OF CUPRIC OXIDE. *HYPERFINE INTERACTIONS*, 85(1-4):317–322, 1994. 6th International Conference on Muon Spin Rotation/Relaxation/Resonance, MAUI, HI, MAY 31-JUN 11, 1993. doi:{10.1007/BF02069441}.

[248] V STORCHAK, BF KIRILLOV, AV PIROGOV, VN DUGINOV, VG GREBINNIK, VG OLSHEVSKY, AB LAZAREV, VY POMYAKUSHIN, SN SHILOV, and VA ZHUKOV. ANTIFERROMAGNETIC SOLID OXYGEN STUDIED BY POSITIVE MUONS. *HYPERFINE INTERACTIONS*, 85(1-4):345–350, 1994. 6th International Conference on Muon Spin Rotation/Relaxation/Resonance, MAUI, HI, MAY 31-JUN 11, 1993. doi:{10.1007/BF02069445}.

[249] M WEBER, A AMATO, FN GYGAX, A SCHENCK, H MALETTA, VN DUGINOV, VG GREBINNIK, AB LAZAREV, VG OLSHEVSKY, VY POMJAKUSHIN, SN SHILOV, VA ZHUKOV, BF KIRILLOV, AV PIROGOV, AN PONOMAREV, VG STORCHAK, S KAPUSTA, and J BOCK. MAGNETIC-FLUX DISTRIBUTION AND THE MAGNETIC PENETRATION DEPTH IN SUPERCONDUCTING POLYCRYSTALLINE BI2SR2CA1-XYXCU2O8+DELTA AND BI2-XPBXSR2CACU2O8+DELTA. *PHYSICAL REVIEW B*, 48(17):13022–13036, NOV 1 1993. doi:{10.1103/PhysRevB.48.13022}.

[250] VN GORELKIN, VG GREBINNIK, KI GRITSAI, VN DUGINOV, VA ZHUKOV, TN MAMEDOV, VG OLSHEVSKII, VY POMYAKUSHIN, BF KIRILLOV, BA NIKOLSKII, AV PIROGOV, and AN PONOMAREV. MU-SR STUDY OF THE BEHAVIOR OF IMPURITY ATOMS IN SILICON. *PHYSICS OF ATOMIC NUCLEI*, 56(10):1316–1319, OCT 1993.

[251] VG GREBINNIK, VN DUGINOV, VA ZHUKOV, BF KIRILLOV, NM KOTOV, VI KUDINOV, TN MAMEDOV, BA NIKOLSKII, YV OBUKHOV, VG OLSHEVSKII, AV PIROGOV, VY POMYAKUSHIN, AN PONOMAREV, GI SAVELEV, VA SUETIN, and VG FIRSOV. LOW-DISPERSION OF FREQUENCIES OF THE MUON PRECESSION IN SAMPLES OF THE HIGH-TEMPERATURE SUPERCONDUCTORS YBA2CU3OX AND EUBA2CU3OX. *PHYSICS OF ATOMIC NUCLEI*, 56(4):443–446, APR 1993.

[252] VG GREBINNIK, VN DUGINOV, VA ZHUKOV, BF KIRILLOV, EA KRAVCHENKO, TN MAMEDOV, BA NIKOLSKII, VG OLSHEVSKII, VG ORLOV, AV PIROGOV, VY POMYAKUSHIN, AN PONOMAREV, and VA SUETIN. STUDY OF LOCAL MAGNETIC-FIELDS IN THE OXIDE ALPHA-BI2O3 USING THE MUON METHOD. *PHYSICS OF ATOMIC NUCLEI*, 56(2):185–188, FEB 1993.

[253] VG STORCHAK, BF KIRILLOV, AV PIROGOV, VN DUGINOV, VG GREBINNIK, AB LAZAREV, VG OLSHEVSKY, VY POMYAKUSHIN, SN SHILOV, and VA ZHUKOV. ON THE NATURE OF THE MUON COMPLEX IN CONDENSED OXYGEN. *PHYSICS LETTERS A*, 166(5-6):429–432, JUN 29 1992. doi:{10.1016/0375-9601(92)90737-7}.

[254] H MALETTA, M WEBER, A AMATO, J BOCK, VN DUGINOV, VG GREBINNIK, FN GYGAX, S KAPUSTA, BF KIRILLOV, VG OLSHEVSKY, AV PIROGOV, YY POMJAKUSHIN, AN PONOMAREV, E PREISLER, A SCHENCK, VG STORCHAK, and VA ZHUKOV. CHARGE-TRANSFER AND CARRIER DENSITY IN BI-2212 HIGH-TC SUPERCONDUCTORS. *JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS*, 104(1):495–496, FEB 1992. doi:{10.1016/0304-8853(92)90893-S}.

[255] M WEBER, A AMATO, VN DUGINOV, VG GREBINNIK, II GUREVICH, FN GYGAX, S KAPUSTA, BF KIRILLOV, AB LAZAREV, H MALETTA, BA NIKOLSKY, VG OLSHEVSKY, AV PIROGOV, VY POMJAKUSHIN, AN PONOMAREV, A SCHENCK, SN SHILOV, VG STORCHAK, VA SUETIN, and VA ZHUKOV. THE MU-SR-STUDY OF THE LONDON PENETRATION DEPTH IN THE HIGH-TC COMPOUNDS BI2SR2CA1-XYXCU2O8+DELTA. *PHYSICA C*, 185(2):1093–1094, DEC 1 1991. 3RD INTERNATIONAL CONF ON MATERIALS AND MECHANISMS OF SUPERCONDUCTIVITY : HIGH TEMPERATURE SUPERCONDUCTORS, KANAZAWA, JAPAN, JUL 22-26, 1991. doi:{10.1016/0921-4534(91)91770-5}.

[256] M WEBER, A AMATO, J BOCK, VN DUGINOV, IA GAGANOV, VG GREBINNIK, FN GYGAX, S KAPUSTA, BF KIRILLOV, AB LAZAREV, H MALETTA, VG OLSHEVSKY, AV PIROGOV, VY POMJAKUSHIN, AN PONOMAREV, E PREISLER, A SCHENCK, SN SHILOV, VG STORCHAK, and VA ZHUKOV. ELECTRONIC CARRIER DENSITY IN DOPED BI-BASED HIGH-TC SUPERCONDUCTORS. *PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS*, 185(2):749–750, DEC 1 1991. doi:{10.1016/0921-4534(91)91598-X}.

[257] S KAPUSTA, J SEBEK, VY POMJAKUSHIN, VN DUGINOV, VA ZHUKOV, VG OLSHEVSKY, AN PONOMAREV, AV PIROGOV, BF KIRILLOV, J BURIANEK, and H SICHOVA. THE LONDON PENETRATION DEPTH IN 110-K-PHASE OF LEAD-FREE BI-SR-CA-CU-O MEASURED BY

MUON SPIN ROTATION TECHNIQUE. *PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS*, 185(3):1765–1766, DEC 1 1991. doi:{10.1016/0921-4534(91)91008-R}.

[258] II GUREVICH, IG IVANTER, BF KIRILLOV, BA NIKOLSKII, AV PIROGOV, AN PONOMAREV, VA SUETIN, VG GREBINNIK, VN DUGINOV, VA ZHUKOV, AB LAZAREV, VG OLSHEVSKII, VY POMYAKUSHIN, and SN SHILOV. THE MUON STUDY OF THE MAGNETIC-PROPERTIES IN SAMARIUM. *ZHURNAL EKSPERIMENTALNOI I TEORETICHESKOI FIZIKI*, 100(4):1353–1357, OCT 1991.

[259] EI KORNILOV and VY POMJAKUSHIN. ON A GENERALIZATION OF THE KUBO-TOYABE FORMULA. *PHYSICS LETTERS A*, 153(6-7):364–367, MAR 11 1991. doi:{10.1016/0375-9601(91)90959-C}.

[260] M WEBER, A AMATO, P BIRRER, VN DUGINOV, VG GREBINNIK, FN GYGAX, S KAPUSTA, BF KIRILLOV, E LIPPELT, H MALETTA, VG OLSHEVSKY, AV PIROGOV, VY POMJAKUSHIN, AN PONOMAREV, A SCHENCK, VG STORCHAK, and VA ZHUKOV. LONDON PENETRATION DEPTH IN BI-BASED HIGH-TC COMPOUNDS. In EVETTS, J, editor, *HIGH TEMPERATURE SUPERCONDUCTIVITY ///*, pages S403–S405. UNIV CAMBRIDGE, INTERDISCIPLINARY RES CTR SUPERCONDUCT, 1991. SATELLITE CONF ON HIGH TEMPERATURE SUPERCONDUCTIVITY, QUEENS COLL, CAMBRIDGE, ENGLAND, AUG 13-15, 1990.

[261] M WEBER, A AMATO, P BIRRER, VN DUGINOV, VG GREBINNIK, FN GYGAX, S KAPUSTA, BF KIRILLOV, E LIPPELT, H MALETTA, VG OLSHEVSKY, AV PIROGOV, VY POMJAKUSHIN, AN PONOMAREV, A SCHENCK, VG STORCHAK, and VA ZHUKOV. LONDON PENETRATION DEPTH IN BI-BASED HIGH-TC COMPOUNDS. *SUPERCONDUCTOR SCIENCE & TECHNOLOGY*, 4(1):S403–S405, JAN 1991. SATELLITE CONF TO THE 19TH INTERNATIONAL CONF ON LOW TEMPERATURE PHYSICS : HIGH TEMPERATURE SUPERCONDUCTIVITY, QUEENS COLL, CAMBRIDGE, ENGLAND, AUG 13-15, 1990. doi:{10.1088/0953-2048/4/1S/120}.

[262] VG GREBINNIK, VN DUGINOV, VA ZHUKOV, S KAPUSTA, AB LAZAREV, VG OLSHEVSKY, V POMJAKUSHIN, SN SHILOV, II GUREVICH, BF KIRILLOV, BA NIKOLSKY, AV PIROGOV, AN PONOMAREV, VA SUETIN, S SAFRATA, J SEBEK, J BURIANEK, and V VALVODA. TRANSVERSAL FIELD MU-SR-MEASUREMENTS OF THE MAGNETIC-PROPERTIES OF THE HIGH-TC CERAMIC BI-SR-CA-CU-O. *HYPERFINE INTERACTIONS*, 61(1-4):1081–1084, AUG 1990. doi:{10.1007/BF02407576}.

[263] VG GREBINNIK, VN DUGINOV, VA ZHUKOV, S KAPUSTA, AB LAZAREV, VG OLSHEVSKY, VY POMJAKUSHIN, SN SHILOV, II GUREVICH, BF KIRILLOV, BA NIKOLSKY, AV PIROGOV, AN PONOMAREV, VA SUETIN, IP BOROVINSKAYA, MD NERSESYAN, AG PERESADA, YF ELTZEV, VR KARASIK, and OE OMELYANOVSKI. ANTIFERROMAGNETISM AND SPIN-GLASS-LIKE BEHAVIOR IN CERAMICS LA2-XSRXCUO4 STUDIED BY MU-SR. *HYPERFINE INTERACTIONS*, 61(1-4):1085–1088, AUG 1990. 8TH INTERNATIONAL CONF ON HYPERFINE INTERACTIONS, PALACE CULTURE, PRAGUE, CZECHOSLOVAKIA, AUG 14-19, 1989. doi:{10.1007/BF02407577}.

[264] VG GREBINNIK, VN DUGINOV, VA ZHUKOV, S KAPUSTA, AB LAZAREV, VG OLSHEVSKY, VY POMJAKUSHIN, SN SHILOV, DT BEZHITADZE, II GUREVICH, BF KIRILLOV, EP KRASNOPEROV, BA NIKOLSKY, AV PIROGOV, AN PONOMAREV, VA SUETIN, and GF TAVADZE. FLUCTUATION OF RARE-EARTH ATOM MAGNETIC-MOMENTS IN SUPERCONDUCTING CERAMICS (HO,ER)-BA-CU-O STUDIED BY MU-SR. *HYPERFINE INTERACTIONS*, 61(1-4):1089–1091, AUG 1990. 8TH INTERNATIONAL CONF ON HYPERFINE INTERACTIONS, PALACE CULTURE, PRAGUE, CZECHOSLOVAKIA, AUG 14-19, 1989. doi:{10.1007/BF02407578}.

[265] VG GREBINNIK, VN DUGINOV, VA ZHUKOV, S KAPUSTA, AB LAZAREV, VG OLSHEVSKY, VY POMJAKUSHIN, SN SHILOV, DT BEZHITADZE, II GUREVICH, BF KIRILLOV, EP KRASNOPEROV, BA NIKOLSKY, AV PIROGOV, AN PONOMAREV, VA SUETIN, GF TAVADZE, IP BOROVINSKAYA, MD NERSESYAN, AG PERESADA, YF ELTZEV, VR KARASIK, and OE OMELYANOVSKY. PENETRATION DEPTH AND PINNING EFFECTS IN HIGH-TC SUPERCONDUCTORS LA-SR-CU-O AND (ER,HO)-BA-CU-O STUDIES BY MU-SR. *HYPERFINE INTERACTIONS*, 61(1-4):1093–1096, AUG 1990. 8TH INTERNATIONAL CONF ON HYPERFINE INTERACTIONS, PALACE CULTURE, PRAGUE, CZECHOSLOVAKIA, AUG 14-19, 1989. doi:{10.1007/BF02407579}.

[266] VH DODOKHOV, VN DUGINOV, IA GAGANOV, VG GREBINNIK, S KAPUSTA, AB LAZAREV, VG OLSHEVSKY, VY POMJAKUSHIN, VS ROGANOV, SN SHILOV, VA ZHUKOV, VG ZINOV, II GUREVICH, BF KIRILLOV, EP KRASNOPEROV, BA NIKOLSKY, AV PIROGOV, AN PONOMAREV, VG STORCHAK, VA SUETIN, S SAFRATA, and J SEBEK. THE MU-SR INVESTIGATIONS ON THE PHASOTRON AT DUBNA - THE PRESENT AND THE FUTURE. *HYPERFINE INTERACTIONS*, 65(1-4):1167–1174, 1990.

[267] VG GREBINNIK, VN DUGINOV, VA ZHUKOV, S KAPUSTA, AB LAZAREV, VG OLSHEVSKY, VY POMJAKUSHIN, SN SHILOV, IK AGEENKOVA, AM BRJAZKALO, BF KIRILLOV, AV PIROGOV, BA NIKOLSKY, AN PONOMAREV, VN SUMAROKOV, AG CHISTOV, S SAFRATA, J SEBEK, D NIZNANSKY, T HANSLIK, and H SICHOVA. THE MU-SR INVESTIGATION OF MULTIPHASE BI-BASED SUPERCONDUCTORS. *HYPERFINE INTERACTIONS*, 63(1-4):117–122, 1990.

[268] VG GREBINNIK, VN DUGINOV, VA ZHUKOV, S KAPUSTA, AB LAZAREV, VG OLSHEVSKY, VY POMJAKUSHIN, SN SHILOV, BF KIRILLOV, AV PIROGOV, and AN PONOMAREV. THE COMPARATIVE-STUDY OF IRREVERSIBILITY EFFECTS IN NB FOIL AND HIGH-TEMPERATURE SUPERCONDUCTING CERAMICS BY MU-SR. *HYPERFINE INTERACTIONS*, 63(1-4):123–130, 1990. 5TH INTERNATIONAL CONF ON MUON SPIN ROTATION, RELAXATION AND RESONANCE, WADHAM COLL, OXFORD, ENGLAND, APR 09-12, 1990.

[269] VG GREBINNIK, VN DUGINOV, VA ZHUKOV, S KAPUSTA, AB LAZAREV, VG OLSHEVSKY, VY POMJAKUSHIN, SN SHILOV, II GUREVICH, BF KIRILLOV, EP KRASNOPEROV, BA NIKOLSKY, AV PIROGOV, AN PONOMAREV, VA SUETIN, and AI MOROZOV. THE MU-SR STUDY OF THE RELAXATION OF HO AND ER MAGNETIC-MOMENTS IN HIGH-TC 1-2-3 COMPOUNDS. *HYPERFINE INTERACTIONS*, 63(1-4):241–248, 1990. 5TH INTERNATIONAL CONF ON MUON SPIN ROTATION, RELAXATION AND RESONANCE, WADHAM COLL, OXFORD, ENGLAND, APR 09-12, 1990.

[270] VG GREBINNIK, VN DUGINOV, VA ZHUKOV, S KAPUSTA, AB LAZAREV, VG OLSHEVSKY, VY POMJAKUSHIN, SN SHILOV, II GUREVICH, BF KIRILLOV, BA NIKOLSKY, AV PIROGOV, AN PONOMAREV, VA SUETIN, AG PERESADA, MD NERSESYAN, IP BOROVINSKAYA, VR KARASIK, OE OMELYANOVSKY, and TG TOGONIDZE. THE MU-SR-INVESTIGATION OF THE MAGNETIC AND SUPERCONDUCTING PROPERTIES OF THE COMPOUND LA2-XSRXCUO4. *PHYSICA C*, 162(1):145–146, DEC 1989. INTERNATIONAL CONF ON MATERIALS AND MECHANISMS OF SUPERCONDUCTIVITY : HIGH TEMPERATURE SUPERCONDUCTORS 2, STANFORD UNIV, CA, JUL 23-28, 1989. doi:{10.1016/0921-4534(89)90959-3}.