

List of publications of V. Pomjakushin till 2018

REFERENCES

- ¹ A. Furrer, K. W. Kramer, A. Podlesnyak, V. Pomjakushin, D. Sheptyakov, and O. V. Safonova. Valence, exchange interaction, and location of Mn ions in polycrystalline Mn_xGal-xN (x ≈ 0.04). *Physical Review B*, 97(14), 2018. URL: [⟨GotoISI⟩://WOS:000429524600001](https://doi.org/10.1103/PhysRevB.97.140102), doi:10.1103/PhysRevB.97.140102.
- ² J. Lohr, F. Pomiros, 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), 2018. URL: [⟨GotoISI⟩://WOS:000446385300002](https://doi.org/10.1103/PhysRevB.98.134405), doi:10.1103/PhysRevB.98.134405.
- ³ H. Nozaki, H. Sakurai, O. Ofer, E. J. Ansaldi, J. H. Brewer, K. H. Chow, V. Pomjakushin, L. Keller, K. Prsa, K. Miwa, M. Mansson, and J. Sugiyama. Magnetic structure for NaCr₂O₄ analyzed by neutron diffraction and muon spin-rotation. *Physica B-Condensed Matter*, 551:137–141, 2018. URL: [⟨GotoISI⟩://WOS:000455012800031](https://doi.org/10.1016/j.physb.2017.11.011), doi:10.1016/j.physb.2017.11.011.
- ⁴ B. Prevost, N. Gauthier, V. Y. Pomjakushin, B. Delley, H. C. Walker, M. Kenzelmann, and A. 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), 2018. URL: [⟨GotoISI⟩://WOS:000447720100003](https://doi.org/10.1103/PhysRevB.98.144428), doi:10.1103/PhysRevB.98.144428.
- ⁵ Y. Sassa, M. Mansson, O. K. Forslund, O. Tjernberg, V. Pomjakushin, O. Ofer, E. J. Ansaldi, J. H. Brewer, I. Umegaki, Y. Higuchi, Y. Ikeda, 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*, 224:79–83, 2018. URL: [⟨GotoISI⟩://WOS:000428825400013](https://doi.org/10.1016/j.elspec.2017.05.010), doi:10.1016/j.elspec.2017.05.010.
- ⁶ 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), 2018. URL: [⟨GotoISI⟩://WOS:000451605200002](https://doi.org/10.1103/PhysRevB.98.180410), doi:10.1103/PhysRevB.98.180410.
- ⁷ L. Zhang, A. Donni, V. Y. Pomjakushin, K. Yamaura, and A. A. Belik. Crystal and Magnetic Structures and Properties of (Lu_{1-x}Mn_x)MnO₃ Solid Solutions. *Inorganic Chemistry*, 57(22):14073–14085, 2018. URL: [⟨GotoISI⟩://WOS:000451244700010](https://doi.org/10.1021/acs.inorgchem.8b01470), doi:10.1021/acs.inorgchem.8b01470.
- ⁸ 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 La_{1/3}Sr_{2/3}FeO₃ by neutron powder diffraction and Mossbauer spectroscopy. *Physical Review B*, 97(17), 2018. URL: [⟨GotoISI⟩://WOS:000433008400002](https://doi.org/10.1103/PhysRevB.97.174417), doi:10.1103/PhysRevB.97.174417.
- ⁹ A. Gotze, N. Zapp, A. J. Peretzki, V. Pomjakushin, T. C. Hansen, and H. 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, 2018. URL: [⟨GotoISI⟩://WOS:000428703900007](https://doi.org/10.1002/zaac.201700434), doi:10.1002/zaac.201700434.
- ¹⁰ J. P. Bolletta, F. Pomiros, R. D. Sanchez, V. Pomjakushin, G. Aurelio, A. Maignan, C. Martin, and R. E. Carbonio. Spin reorientation and metamagnetic transitions in RFe0.5Cr0.5O₃ perovskites (R = Tb, Dy, Ho, Er). *Physical Review B*, 98(13), 2018. URL: [⟨GotoISI⟩://WOS:000446904700004](https://doi.org/10.1103/PhysRevB.98.134417), doi:10.1103/PhysRevB.98.134417.
- ¹¹ N. Gauthier, B. Prevost, A. Amato, C. Baines, V. Pomjakushin, A. D. Bianchi, R. J. Cava, M. Kenzelmann, and Iop. Evidence for spin liquid ground state in SrDy₂O₄ frustrated magnet probed by mu SR, volume 828 of *Journal of Physics Conference Series*. 2017. URL: [⟨GotoISI⟩://WOS:000423149400014](https://doi.org/10.1088/1742-6596/828/1/012014), doi:10.1088/1742-6596/828/1/012014.
- ¹² S. Mukherjee, A. Donni, T. Nakajima, S. Mitsuda, M. Tachibana, H. Kitazawa, V. Pomjakushin, L. Keller, C. Niedermayer, A. Scaramucci, and M. Kenzelmann. E-type noncollinear magnetic ordering in multiferroic o-LuMnO₃. *Physical Review B*, 95(10), 2017. URL: [⟨GotoISI⟩://WOS:000396003200003](https://doi.org/10.1103/PhysRevB.95.104412), doi:10.1103/PhysRevB.95.104412.
- ¹³ M. E. Zayed, C. Ruegg, J. J. Larrea, A. M. Lauchli, C. Panagopoulos, S. S. Saxena, M. Ellerby, D. F. McMorrow, T. Strassle, S. Klotz, G. Hamel, R. A. Sadykov, V. Pomjakushin, M. Boehm, M. Jimenez-Ruiz, A. Schneidewind, E. Pomjakushina, M. Stingaci, K. Conder, and H. M. Ronnow. 4-spin plaquette

singlet state in the Shastry-Sutherland compound $\text{SrCu}_2(\text{BO}_3)_2$. *Nature Physics*, 13(10):962–+, 2017. URL: [⟨Go to ISI⟩://WOS:000412181200016, doi:10.1038/nphys4190](https://doi.org/10.1038/nphys4190).

- ¹⁴ 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 SrDy_2O_4 due to trapped defects from a dimensionality crossover. *Physical Review B*, 95(13), 2017. URL: [⟨Go to ISI⟩://WOS:000399789300003, doi:10.1103/PhysRevB.95.134430](https://doi.org/10.1103/PhysRevB.95.134430).
- ¹⁵ M. C. Hatnean, R. Sibille, M. R. Lees, M. Kenzelmann, V. Ban, V. Pomjakushin, and G. Balakrishnan. Single crystal growth, structure and magnetic properties of $\text{Pr}_2\text{Hf}_2\text{O}_7$ pyrochlore. *Journal of Physics-Condensed Matter*, 29(7), 2017. URL: [⟨Go to ISI⟩://WOS:000401405100001, doi:10.1088/1361-648x/29/7/075902](https://doi.org/10.1088/1361-648x/29/7/075902).
- ¹⁶ G. Rousse, H. Ahouari, V. Pomjakushin, J. M. Tarascon, N. Recham, and A. M. Abakumov. Denticity and Mobility of the Carbonate Groups in AMCO_3F Fluorocarbonates: A Study on KMnCO_3F and High Temperature $\text{KC}\text{aCO}_3\text{F}$ Polymorph. *Inorganic Chemistry*, 56(21):13132–13139, 2017. URL: [⟨Go to ISI⟩://WOS:000414820100052, doi:10.1021/acs.inorgchem.7b01926](https://doi.org/10.1021/acs.inorgchem.7b01926).
- ¹⁷ A. Furrer, A. Podlesnyak, E. Pomjakushina, and V. Pomjakushin. Effect of Sr doping on the magnetic exchange interactions in manganites of type $\text{La}(1-x)\text{Sr}(x)\text{Mn}(y)\text{A}(1-y)\text{O}(3)$ ($\text{A} = \text{Ga}, \text{Ti}; 0.1 \leq y \leq 1$). *Physical Review B*, 95(10), 2017. URL: [⟨Go to ISI⟩://WOS:000396272600004, doi:10.1103/PhysRevB.95.104414](https://doi.org/10.1103/PhysRevB.95.104414).
- ¹⁸ V. Pecanha-Antonio, E. X. Feng, Y. X. Su, V. Pomjakushin, F. Demmel, L. J. Chang, R. J. Aldus, Y. G. Xiao, M. R. Lees, and T. Bruckel. Magnetic excitations in the ground state of $\text{Yb}_2\text{Ti}_2\text{O}_7$. *Physical Review B*, 96(21), 2017. URL: [⟨Go to ISI⟩://WOS:000417635700002, doi:10.1103/PhysRevB.96.214415](https://doi.org/10.1103/PhysRevB.96.214415).
- ¹⁹ R. Sibille, E. Lhotel, M. C. Hatnean, G. J. Nilsen, G. Ehlers, A. Cervellino, E. Ressouche, M. Frontzek, O. Zaharko, V. Pomjakushin, U. Stuhr, H. C. Walker, D. T. Adroja, H. Luetkens, C. Baines, A. Amato, G. Balakrishnan, T. Fennell, and M. Kenzelmann. Coulomb spin liquid in anion-disordered pyrochlore $\text{Tb}_2\text{Hf}_2\text{O}_7$. *Nature Communications*, 8, 2017. URL: [⟨Go to ISI⟩://WOS:000412860000017, doi:10.1038/s41467-017-00905-w](https://doi.org/10.1038/s41467-017-00905-w).
- ²⁰ A. Andrada-Chacon, J. A. Alonso, V. Pomjakushin, and J. Sanchez-Benitez. High-pressure synthesis and structural characterization of $\text{Na}_{1-x}\text{K}_x\text{MgH}_3$ perovskite hydrides. *Journal of Alloys and Compounds*, 729:914–920, 2017. URL: [⟨Go to ISI⟩://WOS:000413555000112, doi:10.1016/j.jallcom.2017.09.245](https://doi.org/10.1016/j.jallcom.2017.09.245).
- ²¹ Z. D. Fu, H. S. Nair, Y. G. Xiao, A. Senyshyn, V. Y. Pomjakushin, E. X. Feng, Y. X. Su, W. T. Jin, and T. Bruckel. Magnetic structures and magnetoelastic coupling of Fe-doped hexagonal manganites $\text{LuMn}_{1-x}\text{Fe}_x\text{O}_3$ ($0 \leq x \leq 0.3$). *Physical Review B*, 94(12), 2016. URL: [⟨Go to ISI⟩://WOS:000385048000003, doi:10.1103/PhysRevB.94.125150](https://doi.org/10.1103/PhysRevB.94.125150).
- ²² M. R. Li, M. Retuerto, P. W. Stephens, M. Croft, D. Sheptyakov, V. Pomjakushin, Z. Deng, H. Akamatsu, V. Gopalan, J. Sanchez-Benitez, F. O. Saouma, J. I. Jang, D. Walker, and M. Greenblatt. Low-Temperature Cationic Rearrangement in a Bulk Metal Oxide. *Angewandte Chemie-International Edition*, 55(34):9862–9867, 2016. URL: [⟨Go to ISI⟩://WOS:000383373000004, doi:10.1002/anie.201511360](https://doi.org/10.1002/anie.201511360).
- ²³ J. Stahl, V. Pomjakushin, and D. Johrendt. Ferromagnetism in $\text{Fe}_{3-x}\text{yNixGeTe}_2$. *Zeitschrift Fur Naturforschung Section B-a Journal of Chemical Sciences*, 71(4):273–276, 2016. URL: [⟨Go to ISI⟩://WOS:000375059600001, doi:10.1515/znb-2015-0208](https://doi.org/10.1515/znb-2015-0208).
- ²⁴ G. C. 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 $\text{PrA}(2)\text{Mn}(2)\text{O}(7)$ ($\text{A} = \text{Sr or Ca}$). *Journal of Applied Physics*, 119(21), 2016. URL: [⟨Go to ISI⟩://WOS:000378923100015, doi:10.1063/1.4953143](https://doi.org/10.1063/1.4953143).
- ²⁵ F. von Rohr, A. Krzton-Maziopa, V. Pomjakushin, H. Grundmann, Z. Guguchia, W. Schnick, and A. Schilling. Field-induced transition of the magnetic ground state from A-type antiferromagnetic to ferromagnetic order in CsCo_2Se_2 . *Journal of Physics-Condensed Matter*, 28(27), 2016. URL: [⟨Go to ISI⟩://WOS:000377050300010, doi:10.1088/0953-8984/28/27/276001](https://doi.org/10.1088/0953-8984/28/27/276001).
- ²⁶ P. Lloveras, E. Stern-Taulats, M. Barrio, J. L. Tamarit, S. Crossley, W. Li, V. Pomjakushin, A. Planes, L. Manosa, N. D. Mathur, and X. Moya. Giant barocaloric effects at low pressure in ferrielectric ammonium sulphate. *Nature Communications*, 6, 2015. URL: [⟨Go to ISI⟩://WOS:000366303300001, doi:10.1038/ncomms9801](https://doi.org/10.1038/ncomms9801).

- ²⁷ R. Sibille, E. Lhotel, V. Pomjakushin, C. Baines, T. Fennell, and M. Kenzelmann. Candidate Quantum Spin Liquid in the Ce₃₊ Pyrochlore Stannate Ce₂Sn₂O₇. *Physical Review Letters*, 115(9), 2015. URL: [⟨GotoISI⟩://WOS:000360134200010](https://doi.org/10.1103/PhysRevLett.115.097202), doi:10.1103/PhysRevLett.115.097202.
- ²⁸ E. Pomjakushina, V. Pomjakushin, K. Rolfs, J. Karpinski, and K. Conder. New Synthesis Route and Magnetic Structure of Tm₂Mn₂O₇ Pyrochlore. *Inorganic Chemistry*, 54(18):9092–9097, 2015. URL: [⟨GotoISI⟩://WOS:000361865600033](https://doi.org/10.1021/acs.inorgchem.5b01498), doi:10.1021/acs.inorgchem.5b01498.
- ²⁹ R. M. Pinacca, S. A. Larregola, C. A. Lopez, J. C. Pedregosa, V. 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, 2015. URL: [⟨GotoISI⟩://WOS:000352171100029](https://doi.org/10.1016/j.materresbull.2015.02.049), doi:10.1016/j.materresbull.2015.02.049.
- ³⁰ M. Hase, H. Kuroe, V. Y. Pomjakushin, L. Keller, R. Tamura, N. Terada, Y. Matsushita, A. Donni, and T. 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), 2015. URL: [⟨GotoISI⟩://WOS:000359439900003](https://doi.org/10.1103/PhysRevB.92.054425), doi:10.1103/PhysRevB.92.054425.
- ³¹ A. M. Balagurov, I. A. Bobrikov, V. Y. Pomjakushin, D. V. Sheptyakov, and V. Y. 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, 2015. URL: [⟨GotoISI⟩://WOS:000344949000095](https://doi.org/10.1016/j.jmmm.2014.08.092), doi:10.1016/j.jmmm.2014.08.092.
- ³² H. S. Nair, Z. Fu, C. M. N. Kumar, V. Y. Pomjakushin, Y. Xiao, T. Chatterji, and A. M. Strydom. Spin-lattice coupling and frustrated magnetism in Fe-doped hexagonal LuMnO₃. *Epl*, 110(3), 2015. URL: [⟨GotoISI⟩://WOS:000356609500023](https://doi.org/10.1209/0295-5075/110/37007), doi:10.1209/0295-5075/110/37007.
- ³³ J. Sugiyama, H. Nozaki, M. Harada, Y. Higuchi, H. Sakurai, E. J. Ansaldi, J. H. Brewer, L. Keller, V. Pomjakushin, and M. Mansson. *Magnetic ground state of novel zigzag chain compounds, NaCr₂O₄ and Ca_{1-x}NaxCr₂O₄, determined with muons and neutrons*, volume 75 of *Physics Procedia*, pages 868–875. 2015. URL: [⟨GotoISI⟩://WOS:000381129300120](https://doi.org/10.1016/j.phpro.2015.12.112), doi:10.1016/j.phpro.2015.12.112.
- ³⁴ 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 oxyselelenide: LaO_{0.5}F_{0.5}BiSe₂. *Journal of Physics-Condensed Matter*, 26(21), 2014. URL: [⟨GotoISI⟩://WOS:000336245700011](https://doi.org/10.1088/0953-8984/26/21/215702), doi:10.1088/0953-8984/26/21/215702.
- ³⁵ 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), 2014. URL: [⟨GotoISI⟩://WOS:000340743300004](https://doi.org/10.1103/PhysRevB.90.059902), doi:10.1103/PhysRevB.90.059902.
- ³⁶ V. Pomjakushin. Full propagation-vector star antiferromagnetic order in quantum spin trimer system Ca₃CuNi₂(PO₄)₄. *Journal of Physics-Condensed Matter*, 26(49), 2014. URL: [⟨GotoISI⟩://WOS:000345461200012](https://doi.org/10.1088/0953-8984/26/49/496002), doi:10.1088/0953-8984/26/49/496002.
- ³⁷ S. A. Larrogola, J. A. Alonso, V. A. de la Pena-O'Shea, D. Sheptyakov, V. Pomjakushin, M. T. Fernandez-Diaz, and J. 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, 2014. URL: [⟨GotoISI⟩://WOS:000336942500027](https://doi.org/10.1021/ic500278y), doi:10.1021/ic500278y.
- ³⁸ M. Hase, V. Y. Pomjakushin, A. Donni, T. Yang, R. H. Cong, and J. H. 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), 2014. URL: [⟨GotoISI⟩://WOS:000342108300019](https://doi.org/10.7566/jpsj.83.104701), doi:10.7566/jpsj.83.104701.
- ³⁹ A. Furrer, A. Podlesnyak, K. W. Kramer, J. P. Embs, V. Pomjakushin, and T. Strassle. Propagation of defects in doped magnetic materials of different dimensionality. *Physical Review B*, 89(14), 2014. URL: [⟨GotoISI⟩://WOS:000333664800003](https://doi.org/10.1103/PhysRevB.89.144402), doi:10.1103/PhysRevB.89.144402.
- ⁴⁰ 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 Cs_{0.72}Fe_{1.57}Se₂. *Physical Review B*, 89(14), 2014. URL: [⟨GotoISI⟩://WOS:000337348300002](https://doi.org/10.1103/PhysRevB.89.144106), doi:10.1103/PhysRevB.89.144106.
- ⁴¹ V. Y. Pomjakushin, A. Furrer, D. V. Sheptyakov, E. V. Pomjakushina, and K. Conder. Crystal and magnetic structures of the spin-trimer compounds Ca₃Cu_{3-x}Nix(PO₄)₄ (x = 0,1,2) (vol 76, 174433, 2007).

Physical Review B, 89(13), 2014. URL: [⟨GotoISI⟩://WOS:000334120700003](https://doi.org/10.1103/PhysRevB.89.139903), doi:10.1103/PhysRevB.89.139903.

- ⁴² S. A. Larregola, J. S. Zhou, J. A. Alonso, V. Pomjakushin, and J. B. Goodenough. New Routes to Synthesizing an Ordered Perovskite CaCu₃Fe₂Sb₂O₁₂ and Its Magnetic Structure by Neutron Powder Diffraction. *Inorganic Chemistry*, 53(9):4281–4283, 2014. URL: [⟨GotoISI⟩://WOS:000335547400005](https://doi.org/10.1021/ic500458m), doi:10.1021/ic500458m.
- ⁴³ 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), 2014. URL: [⟨GotoISI⟩://WOS:000339048500003](https://doi.org/10.1103/PhysRevB.89.224511), doi:10.1103/PhysRevB.89.224511.
- ⁴⁴ T. Strassle, 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), 2014. URL: [⟨GotoISI⟩://WOS:000338649700001](https://doi.org/10.1103/PhysRevB.90.014101), doi:10.1103/PhysRevB.90.014101.
- ⁴⁵ J. M. Law, H. J. Koo, M. H. Whangbo, E. Brucher, V. Pomjakushin, and R. K. Kremer. Strongly correlated one-dimensional magnetic behavior of NiTa₂O₆. *Physical Review B*, 89(1), 2014. URL: [⟨GotoISI⟩://WOS:000332283700003](https://doi.org/10.1103/PhysRevB.89.014423), doi:10.1103/PhysRevB.89.014423.
- ⁴⁶ P. S. Hafliger, S. Gerber, R. Pramod, V. I. Schnells, B. dalla Piazza, R. Chat, 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), 2014. URL: [⟨GotoISI⟩://WOS:000332391200001](https://doi.org/10.1103/PhysRevB.89.085113), doi:10.1103/PhysRevB.89.085113.
- ⁴⁷ 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), 2013. URL: [⟨GotoISI⟩://WOS:000318556100007](https://doi.org/10.1088/0953-8984/25/20/205401), doi:10.1088/0953-8984/25/20/205401.
- ⁴⁸ H. Nozaki, M. Mansson, B. Roessli, V. Pomjakushin, K. Kamazawa, Y. Ikeda, H. E. Fischer, T. C. Hansen, H. Yoshida, Z. Hiroi, and J. Sugiyama. Magnetic structure of the metallic triangular antiferromagnet Ag₂NiO₂. *Journal of Physics-Condensed Matter*, 25(28), 2013. URL: [⟨GotoISI⟩://WOS:000321218900015](https://doi.org/10.1088/0953-8984/25/28/286005), doi:10.1088/0953-8984/25/28/286005.
- ⁴⁹ 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), 2013. URL: [⟨GotoISI⟩://WOS:000323942600006](https://doi.org/10.1103/PhysRevB.88.104505), doi:10.1103/PhysRevB.88.104505.
- ⁵⁰ V. Svitlyk, D. Chernyshov, E. Pomjakushina, A. Krzton-Maziopa, K. Conder, V. Pomjakushin, R. Pottgen, 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), 2013. URL: [⟨GotoISI⟩://WOS:000321944000007](https://doi.org/10.1088/0953-8984/25/31/315403), doi:10.1088/0953-8984/25/31/315403.
- ⁵¹ 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, 2013. URL: [⟨GotoISI⟩://WOS:000314554800019](https://doi.org/10.1016/j.molstruc.2012.08.049), doi:10.1016/j.molstruc.2012.08.049.
- ⁵² M. Hase, A. Donni, O. Sakai, K. Ozawa, H. Kitazawa, V. Y. Pomjakushin, L. Keller, T. Yang, R. H. Cong, and J. H. 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, 2013. URL: [⟨GotoISI⟩://WOS:000321590800041](https://doi.org/10.3938/jkps.62.1896), doi:10.3938/jkps.62.1896.
- ⁵³ 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), 2013. URL: [⟨GotoISI⟩://WOS:000327150900003](https://doi.org/10.1103/PhysRevB.88.174416), doi:10.1103/PhysRevB.88.174416.
- ⁵⁴ 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), 2013. URL: [⟨GotoISI⟩://WOS:000324431000028](https://doi.org/10.1088/0953-2048/26/10/105026), doi:10.1088/0953-2048/26/10/105026.

- ⁵⁵ 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), 2013. URL: [⟨Go to ISI⟩://WOS:000324938400005](https://doi.org/10.1103/PhysRevB.88.094518), doi:10.1103/PhysRevB.88.094518.
- ⁵⁶ G. Deng, M. Kenzelmann, S. Danilkin, A. J. Studer, V. Pomjakushin, P. Imperia, E. Pomjakushina, and K. Conder. Coexistence of long-range magnetic ordering and singlet ground state in the spin-ladder superconductor SrCa₁₃Cu₂₄O₄₁. *Physical Review B*, 88(17), 2013. URL: [⟨Go to ISI⟩://WOS:000327383900004](https://doi.org/10.1103/PhysRevB.88.174424), doi:10.1103/PhysRevB.88.174424.
- ⁵⁷ M. Medarde, M. Mena, J. L. Gavilano, E. Pomjakushina, J. Sugiyama, K. Kamazawa, V. Y. 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 Na_{0.7}CoO₂. *Physical Review Letters*, 110(26), 2013. URL: [⟨Go to ISI⟩://WOS:000320990800018](https://doi.org/10.1103/PhysRevLett.110.266401), doi:10.1103/PhysRevLett.110.266401.
- ⁵⁸ 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), 2012. URL: [⟨Go to ISI⟩://WOS:000298641600017](https://doi.org/10.1088/0953-8984/24/3/036001), doi:10.1088/0953-8984/24/3/036001.
- ⁵⁹ M. Hase, V. Y. Pomjakushin, V. Sikolenko, L. Keller, A. Donni, H. Kitazawa, and Iop. *Negative magnetization of Li₂Ni₂Mo₃O₁₂ including two spin subsystems, distorted honeycomb lattice and linear chain*, volume 400 of *Journal of Physics Conference Series*. 2012. URL: [⟨Go to ISI⟩://WOS:000314977100251](https://doi.org/10.1088/1742-6596/400/3/032017), doi:10.1088/1742-6596/400/3/032017.
- ⁶⁰ A. M. Balagurov, L. G. Mamsurova, I. A. Bobrikov, T. T. Loan, V. Y. Pomjakushin, K. S. Pigalskiy, N. G. Trusevich, and A. A. Vishnev. Disordering effects in the atomic structure of fine-crystalline HTSC YBa₂Cu₃O_y. *Journal of Experimental and Theoretical Physics*, 114(6):1001–1011, 2012. URL: [⟨Go to ISI⟩://WOS:000306435600011](https://doi.org/10.1134/s106377611204005x), doi:10.1134/s106377611204005x.
- ⁶¹ D. V. Sheptyakov, V. Y. 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), 2012. URL: [⟨Go to ISI⟩://WOS:000306922600005](https://doi.org/10.1103/PhysRevB.86.014433), doi:10.1103/PhysRevB.86.014433.
- ⁶² 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), 2012. URL: [⟨Go to ISI⟩://WOS:000306409600004](https://doi.org/10.1103/PhysRevB.86.024302), doi:10.1103/PhysRevB.86.024302.
- ⁶³ A. Bosak, V. Svitlyk, A. Krzton-Maziopa, E. Pomjakushina, K. Conder, V. Pomjakushin, A. Popov, D. de Sanctis, and D. Chernyshov. Phase coexistence in Cs_{0.8}Fe_{1.6}Se₂ as seen by x-ray mapping of reciprocal space. *Physical Review B*, 86(17), 2012. URL: [⟨Go to ISI⟩://WOS:000310968400001](https://doi.org/10.1103/PhysRevB.86.174107), doi:10.1103/PhysRevB.86.174107.
- ⁶⁴ M. Hase, V. Y. Pomjakushin, A. Donni, and H. Kitazawa. Magnetic Structure of SrCo₃P₄O₁₄ Determined from Neutron Powder Diffraction Results. *Journal of the Physical Society of Japan*, 81(6), 2012. URL: [⟨Go to ISI⟩://WOS:000304751400031](https://doi.org/10.1143/jpsj.81.064702), doi:10.1143/jpsj.81.064702.
- ⁶⁵ M. Hase, A. Donni, K. Ozawa, H. Kitazawa, O. Sakai, V. Y. Pomjakushin, L. Keller, K. Kaneko, N. Metoki, K. Kakurai, M. Matsuda, T. Yang, R. H. Cong, J. H. Lin, and Iop. *Neutron scattering studies of the spin-5/2 antiferromagnetic linear trimer substance SrMn₃P₄O₁₄*, volume 340 of *Journal of Physics Conference Series*. 2012. URL: [⟨Go to ISI⟩://WOS:000301288200066](https://doi.org/10.1088/1742-6596/340/1/012066), doi:10.1088/1742-6596/340/1/012066.
- ⁶⁶ 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), 2012. URL: [⟨Go to ISI⟩://WOS:000299326500027](https://doi.org/10.1088/0953-8984/24/5/059502), doi:10.1088/0953-8984/24/5/059502.
- ⁶⁷ 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), 2012. URL: [⟨Go to ISI⟩://WOS:000300390500020](https://doi.org/10.1088/0953-8984/24/7/076003), doi:10.1088/0953-8984/24/7/076003.
- ⁶⁸ 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, 2012. URL: [⟨Go to ISI⟩://WOS:000300077500011](https://doi.org/10.1016/j.ssc.2011.10.034), doi:10.1016/j.ssc.2011.10.034.
- ⁶⁹ A. Krzton-Maziopa, E. V. Pomjakushina, V. Y. 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), 2012. URL: [⟨Go to ISI⟩://WOS:000308861200002](https://doi.org/10.1088/0953-8984/24/38/382202), doi:[10.1088/0953-8984/24/38/382202](https://doi.org/10.1088/0953-8984/24/38/382202).
- ⁷⁰ Q. L. Chen, S. Holdsworth, J. Embs, V. Pomjakushin, B. Frick, and A. Braun. High-temperature high pressure cell for neutron-scattering studies. *High Pressure Research*, 32(4):471–481, 2012. URL: [⟨Go to ISI⟩://WOS:000312339500004](https://doi.org/10.1080/08957959.2012.725729), doi:[10.1080/08957959.2012.725729](https://doi.org/10.1080/08957959.2012.725729).
- ⁷¹ V. Y. Pomjakushin, A. Krzton-Maziopa, E. V. Pomjakushina, K. Conder, D. Chernyshov, V. Svitlyk, and A. Bosak. Intrinsic crystal phase separation in the antiferromagnetic superconductor RbyFe_{2-x}Se₂: a diffraction study. *Journal of Physics-Condensed Matter*, 24(43), 2012. URL: [⟨Go to ISI⟩://WOS:000309965200016](https://doi.org/10.1088/0953-8984/24/43/435701), doi:[10.1088/0953-8984/24/43/435701](https://doi.org/10.1088/0953-8984/24/43/435701).
- ⁷² S. Klotz, T. Strassle, 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), 2011. URL: [⟨Go to ISI⟩://WOS:000286222300015](https://doi.org/10.1088/00286222300015), doi:[10.1088/00286222300015](https://doi.org/10.1088/00286222300015).
- ⁷³ 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), 2011. URL: [⟨Go to ISI⟩://WOS:000288450800022](https://doi.org/10.1103/PhysRevLett.106.117602), doi:[10.1103/PhysRevLett.106.117602](https://doi.org/10.1103/PhysRevLett.106.117602).
- ⁷⁴ 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, 2011. URL: [⟨Go to ISI⟩://WOS:000293264800008](https://doi.org/10.1002/ejic.201100234), doi:[10.1002/ejic.201100234](https://doi.org/10.1002/ejic.201100234).
- ⁷⁵ S. K. Mishra, R. Mittal, V. Y. 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), 2011. URL: [⟨Go to ISI⟩://WOS:000289228800001](https://doi.org/10.1103/PhysRevB.83.134105), doi:[10.1103/PhysRevB.83.134105](https://doi.org/10.1103/PhysRevB.83.134105).
- ⁷⁶ A. 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, 2011. URL: [⟨Go to ISI⟩://WOS:000290246600045](https://doi.org/10.1021/ic200245m), doi:[10.1021/ic200245m](https://doi.org/10.1021/ic200245m).
- ⁷⁷ V. Y. 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 Cs_yFe_{2-x}Se₂. *Physical Review B*, 83(14), 2011. URL: [⟨Go to ISI⟩://WOS:000289517600006](https://doi.org/10.1103/PhysRevB.83.144410), doi:[10.1103/PhysRevB.83.144410](https://doi.org/10.1103/PhysRevB.83.144410).
- ⁷⁸ G. C. Deng, V. Pomjakushin, V. Petricek, E. Pomjakushina, M. Kenzelmann, and K. Conder. Structural evolution of one-dimensional spin-ladder compounds Sr_{14-x}CaxCu₂₄O₄₁ with Ca doping and related evidence of hole redistribution. *Physical Review B*, 84(14), 2011. URL: [⟨Go to ISI⟩://WOS:000296287600001](https://doi.org/10.1103/PhysRevB.84.144111), doi:[10.1103/PhysRevB.84.144111](https://doi.org/10.1103/PhysRevB.84.144111).
- ⁷⁹ 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), 2011. URL: [⟨Go to ISI⟩://WOS:000295841800003](https://doi.org/10.1088/0953-8984/23/40/402201), doi:[10.1088/0953-8984/23/40/402201](https://doi.org/10.1088/0953-8984/23/40/402201).
- ⁸⁰ S. A. Larregola, J. A. Alonso, D. Sheptyakov, M. Alguero, A. Munoz, V. Pomjakushin, and J. 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, 2011. URL: [⟨Go to ISI⟩://WOS:000291422100032](https://doi.org/10.1021/ic200127a), doi:[10.1021/ic200127a](https://doi.org/10.1021/ic200127a).
- ⁸¹ M. Hase, V. Y. Pomjakushin, L. Keller, A. Donni, O. Sakai, T. Yang, R. H. Cong, J. H. Lin, K. Ozawa, and H. Kitazawa. Spiral magnetic structure in spin-5/2 frustrated trimerized chains in SrMn₃P₄O₁₄. *Physical Review B*, 84(18), 2011. URL: [⟨Go to ISI⟩://WOS:000297474000005](https://doi.org/10.1103/PhysRevB.84.184435), doi:[10.1103/PhysRevB.84.184435](https://doi.org/10.1103/PhysRevB.84.184435).
- ⁸² A. Furrer, E. Pomjakushina, V. Pomjakushin, J. P. Embs, and T. Strassle. Ferromagnetic and antiferromagnetic dimer splittings in LaMn_{0.1}Ga_{0.9}O₃. *Physical Review B*, 83(17), 2011. URL: [⟨Go to ISI⟩://WOS:000291088200011](https://doi.org/10.1103/PhysRevB.83.174442), doi:[10.1103/PhysRevB.83.174442](https://doi.org/10.1103/PhysRevB.83.174442).
- ⁸³ 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), 2011. URL: [⟨Go to ISI⟩://WOS:000286380800003](https://doi.org/10.1088/0953-8984/23/5/052203), doi:[10.1088/0953-8984/23/5/052203](https://doi.org/10.1088/0953-8984/23/5/052203).

- ⁸⁴ Q. L. Chen, T. W. Huang, M. Baldini, A. Hushur, V. Pomjakushin, S. Clark, W. L. Mao, M. H. Manghnani, A. Braun, and T. 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, 2011. URL: [⟨GotoISI⟩://WOS:000297446300047](https://doi.org/10.1021/jp208525j), doi:10.1021/jp208525j.
- ⁸⁵ M. Hase, V. Y. Pomjakushin, V. Sikolenko, L. Keller, H. Luetkens, A. Conder, and H. Kitazawa. Negative magnetization of Li₂Ni₂Mo₃O₁₂: A spin system composed of distorted honeycomb lattices and linear chains. *Physical Review B*, 84(10), 2011. URL: [⟨GotoISI⟩://WOS:000294402500005](https://doi.org/10.1103/PhysRevB.84.104402), doi:10.1103/PhysRevB.84.104402.
- ⁸⁶ L. Malavasi, C. Tealdi, C. Ritter, V. Pomjakushin, F. Gozzo, and Y. Diaz-Fernandez. Combined Neutron and Synchrotron X-ray Diffraction investigation of the BaCe_{0.85-x}Zr_xY_{0.15}O_{3-delta} (0.1 ≤ x ≤ 0.4) Proton Conductors. *Chemistry of Materials*, 23(5):1323–1330, 2011. URL: [⟨GotoISI⟩://WOS:000287767200033](https://doi.org/10.1021/cm1034326), doi:10.1021/cm1034326.
- ⁸⁷ N. D. Zhigadlo, S. Katrych, M. Bendele, P. J. W. Moll, M. Tortello, S. Weyeneth, V. Y. 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 SmFeAs_{1-x}P_xO_{1-y}. *Physical Review B*, 84(13), 2011. URL: [⟨GotoISI⟩://WOS:000296291800006](https://doi.org/10.1103/PhysRevB.84.134526), doi:10.1103/PhysRevB.84.134526.
- ⁸⁸ A. M. Balagurov, I. A. Bobrikov, V. Y. Pomjakushin, E. V. Pomjakushina, D. V. Sheptyakov, and I. O. Troyanchuk. Low-temperature structural anomalies in Pr_{0.5}Sr_{0.5}CoO₃. *Jetp Letters*, 93(5):263–268, 2011. URL: [⟨GotoISI⟩://WOS:000290279800003](https://doi.org/10.1134/s0021364011050031), doi:10.1134/s0021364011050031.
- ⁸⁹ 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)(Fe_{1-y}Se)(2) (A = Cs, Rb, K) Studied by Synchrotron Powder Diffraction. *Inorganic Chemistry*, 50(21):10703–10708, 2011. URL: [⟨GotoISI⟩://WOS:000296303900033](https://doi.org/10.1021/ic201160y), doi:10.1021/ic201160y.
- ⁹⁰ A. U. Khan, J. Bursik, A. Grytsiv, V. Pomjakushin, H. Effenberger, and P. Rogl. Crystal structure of tau(5)-TiNi₂-xAl₅ (x=0.48) and isotropic Zr_xHfni₂-xAl_{5-y}. *Intermetallics*, 19(10):1340–1347, 2011. URL: [⟨GotoISI⟩://WOS:000294522400001](https://doi.org/10.1016/j.intermet.2011.03.028), doi:10.1016/j.intermet.2011.03.028.
- ⁹¹ A. Furrer, T. Strassle, J. P. Embs, F. Juranyi, V. Pomjakushin, M. Schneider, and K. W. Kramer. Direct Observation of Local Mn-Mn Distances in the Paramagnetic Compound CsMnxMg_{1-x}Br₃. *Physical Review Letters*, 107(11), 2011. URL: [⟨GotoISI⟩://WOS:000294783200022](https://doi.org/10.1103/PhysRevLett.107.115502), doi:10.1103/PhysRevLett.107.115502.
- ⁹² V. Y. 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), 2011. URL: [⟨GotoISI⟩://WOS:000289199800016](https://doi.org/10.1088/0953-8984/23/15/156003), doi:10.1088/0953-8984/23/15/156003.
- ⁹³ 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), 2010. URL: [⟨GotoISI⟩://WOS:000284046300005](https://doi.org/10.1103/PhysRevB.82.180508), doi:10.1103/PhysRevB.82.180508.
- ⁹⁴ T. Strassle, A. Caviezel, B. Padmanabhan, V. Y. Pomjakushin, and S. 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), 2010. URL: [⟨GotoISI⟩://WOS:000281773300001](https://doi.org/10.1103/PhysRevB.82.094103), doi:10.1103/PhysRevB.82.094103.
- ⁹⁵ 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), 2010. URL: [⟨GotoISI⟩://WOS:000286766900002](https://doi.org/10.1103/PhysRevB.82.235108), doi:10.1103/PhysRevB.82.235108.
- ⁹⁶ 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), 2010. URL: [⟨GotoISI⟩://WOS:000276207300079](https://doi.org/10.1103/PhysRevB.81.094429), doi:10.1103/PhysRevB.81.094429.
- ⁹⁷ 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 FeSe_{1-x}. *New Journal of Physics*, 12, 2010. URL: [⟨GotoISI⟩://WOS:000281232700003](https://doi.org/10.1088/1367-2630/12/7/073024), doi:10.1088/1367-2630/12/7/073024.
- ⁹⁸ S. A. Larregola, J. A. Alonso, D. Sheptyakov, M. Alguero, A. Munoz, V. Pomjakushin, and J. 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, 2010. URL: [⟨Go to ISI⟩://WOS:000283276800040](https://doi.org/10.1021/ja104417f), doi:10.1021/ja104417f.
- ⁹⁹ V. Y. 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 (La_{1-y}Pry)(0.7)Ca0.3MnO₃. *Journal of Physics-Condensed Matter*, 22(11), 2010. URL: [⟨Go to ISI⟩://WOS:000275223400011](https://doi.org/10.1088/0953-8984/22/11/115601), doi:10.1088/0953-8984/22/11/115601.
- ¹⁰⁰ M. Hase, A. Donni, V. Y. Pomjakushin, L. Keller, F. Gozzo, A. Cervellino, and M. Kohno. *Magnetic structure of Cu₂CdB₂O₆ having magnetization plateau and antiferromagnetic long-range order*, volume 200 of *Journal of Physics Conference Series*. 2010. URL: [⟨Go to ISI⟩://WOS:000291321301071](https://doi.org/10.1088/1742-6596/200/2/022015), doi:10.1088/1742-6596/200/2/022015.
- ¹⁰¹ H. Nozaki, J. Sugiyama, M. Mansson, M. Harada, V. Pomjakushin, V. Sikolenko, A. Cervellino, B. Roessli, and H. Sakurai. Incommensurate spin-density-wave order in quasi-one-dimensional metallic antiferromagnet NaV₂O₄. *Physical Review B*, 81(10), 2010. URL: [⟨Go to ISI⟩://WOS:000276248700016](https://doi.org/10.1103/PhysRevB.81.100410), doi:10.1103/PhysRevB.81.100410.
- ¹⁰² 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, 2010. URL: [⟨Go to ISI⟩://WOS:000285431100032](https://doi.org/10.1016/j.jssc.2010.10.015), doi:10.1016/j.jssc.2010.10.015.
- ¹⁰³ 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 FeSe_{0.5}Te_{0.5}. *Physical Review B*, 81(22), 2010. URL: [⟨Go to ISI⟩://WOS:000279265600001](https://doi.org/10.1103/PhysRevB.81.224520), doi:10.1103/PhysRevB.81.224520.
- ¹⁰⁴ 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), 2010. URL: [⟨Go to ISI⟩://WOS:000278936400001](https://doi.org/10.1103/PhysRevB.81.214115), doi:10.1103/PhysRevB.81.214115.
- ¹⁰⁵ S. K. Mishra, R. Mittal, S. L. Chaplot, and V. Y. Pomjakushin. *The Structure of Sodium Niobate at 770 KS*, volume 1313 of *AIP Conference Proceedings*, pages 227–+. 2010. URL: [⟨Go to ISI⟩://WOS:000287118200062](https://doi.org/10.1063/1.3468452).
- ¹⁰⁶ M. Hase, A. Donni, V. Y. Pomjakushin, L. Keller, F. Gozzo, A. Cervellino, and M. Kohno. Magnetic structure of Cu₂CdB₂O₆ exhibiting a quantum-mechanical magnetization plateau and classical antiferromagnetic long-range order. *Physical Review B*, 80(10), 2009. URL: [⟨Go to ISI⟩://WOS:000270383100048](https://doi.org/10.1103/PhysRevB.80.104405), doi:10.1103/PhysRevB.80.104405.
- ¹⁰⁷ 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 BaZr_{0.9}Y_{0.1}O_{2.95} proton conductor. *Applied Physics Letters*, 95(22), 2009. URL: [⟨Go to ISI⟩://WOS:000272627600087](https://doi.org/10.1063/1.3268454), doi:10.1063/1.3268454.
- ¹⁰⁸ X. L. Yan, A. Grytsiv, P. Rogl, V. Pomjakushin, and X. X. Xue. On the crystal structure of the Mn-Ni-Si G-phase. *Journal of Alloys and Compounds*, 469(1-2):152–155, 2009. URL: [⟨Go to ISI⟩://WOS:000263801500028](https://doi.org/10.1016/j.jallcom.2008.01.142), doi:10.1016/j.jallcom.2008.01.142.
- ¹⁰⁹ E. Pomjakushina, K. Conder, V. Pomjakushin, M. Bendele, and R. Khasanov. Synthesis, crystal structure, and chemical stability of the superconductor FeSe_{1-x}. *Physical Review B*, 80(2), 2009. URL: [⟨Go to ISI⟩://WOS:000268617500096](https://doi.org/10.1103/PhysRevB.80.024517), doi:10.1103/PhysRevB.80.024517.
- ¹¹⁰ 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), 2009. URL: [⟨Go to ISI⟩://WOS:000271351500031](https://doi.org/10.1103/PhysRevB.80.140511), doi:10.1103/PhysRevB.80.140511.
- ¹¹¹ 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), 2009. URL: [⟨Go to ISI⟩://WOS:000269718500060](https://doi.org/10.1103/PhysRevLett.103.097205), doi:10.1103/PhysRevLett.103.097205.
- ¹¹² D. V. Sheptyakov, V. Y. Pomjakushin, O. A. Drozhzhin, S. Y. Istomin, E. V. Antipov, I. A. Bobrikov, and A. M. Balagurov. Correlation of chemical coordination and magnetic ordering in Sr₃YCo₄O_{10.5+delta} (delta=0.02 and 0.26). *Physical Review B*, 80(2), 2009. URL: [⟨Go to ISI⟩://WOS:000268617500060](https://doi.org/10.1103/PhysRevB.80.024409), doi:10.1103/PhysRevB.80.024409.

- ¹¹³ V. Y. Pomjakushin, M. Kenzelmann, A. Donni, 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, 2009. URL: [⟨Go to ISI⟩://WOS:000265678400019](https://doi.org/10.1088/1367-2630/11/4/043019), doi:10.1088/1367-2630/11/4/043019.
- ¹¹⁴ H. Nozaki, J. Sugiyama, M. Janoschek, B. Roessli, V. Pomjakushin, L. Keller, H. Yoshida, and Z. Hiroi. Neutron diffraction study of layered Ni dioxides: Ag₂NiO₂. *Journal of Physics-Condensed Matter*, 20(10), 2008. URL: [⟨Go to ISI⟩://WOS:000254101000037](https://doi.org/10.1088/0953-8984/20/10/104236), doi:10.1088/0953-8984/20/10/104236.
- ¹¹⁵ G. M. Rotaru, S. N. Gvasaliya, V. Pomjakushin, B. Roessli, T. Strassle, S. G. Lushnikov, T. A. Shaplygina, and P. Gunter. Atomic displacements in PbMg_{1/3}Nb_{2/3}O₃ under high pressures. *Journal of Physics-Condensed Matter*, 20(10), 2008. URL: [⟨Go to ISI⟩://WOS:000254101000036](https://doi.org/10.1088/0953-8984/20/10/104235), doi:10.1088/0953-8984/20/10/104235.
- ¹¹⁶ 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 RBaCo₂O_{5.5} (R=Nd,Tb) as seen from reciprocal space mapping. *Physical Review B*, 78(2), 2008. URL: [⟨Go to ISI⟩://WOS:000258190200032](https://doi.org/10.1103/PhysRevB.78.024105), doi:10.1103/PhysRevB.78.024105.
- ¹¹⁷ A. Balagurov, I. Bobrikov, D. Karpinsky, I. Troyanchuk, V. Pomjakushin, and D. Sheptyakov. Successive Structural Phase Transitions in Pr_{0.5}Sr_{0.5}CoO₃ in the Range 10–1120 K. *Jetp Letters*, 88(8):531–536, 2008. URL: [⟨Go to ISI⟩://WOS:000262698400013](https://doi.org/10.1134/s0021364008200137), doi:10.1134/s0021364008200137.
- ¹¹⁸ A. M. Balagurov, I. A. Bobrikov, V. Y. Pomjakushin, D. V. Sheptyakov, N. A. Babushkina, O. Y. Gorbenko, M. S. Kartavtseva, and A. R. Kaul. Effect of isotopic composition and microstructure on the crystalline and magnetic phase states in R_{0.5}Sr_{0.5}MnO₃. *Journal of Experimental and Theoretical Physics*, 106(3):528–541, 2008. URL: [⟨Go to ISI⟩://WOS:000255585100012](https://doi.org/10.1134/s1063776108030126), doi:10.1134/s1063776108030126.
- ¹¹⁹ 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, 2008. URL: [⟨Go to ISI⟩://WOS:000259415800006](https://doi.org/10.1016/j.jssc.2008.05.009), doi:10.1016/j.jssc.2008.05.009.
- ¹²⁰ X. L. 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, 2008. URL: [⟨Go to ISI⟩://WOS:000256004700008](https://doi.org/10.1016/j.intermet.2008.01.015), doi:10.1016/j.intermet.2008.01.015.
- ¹²¹ I. V. Nikolaev, H. D'Hondt, A. M. Abakumov, J. Hadermann, A. M. Balagurov, I. A. Bobrikov, D. V. Sheptyakov, V. Y. Pomjakushin, K. V. Pokholok, D. S. Filimonov, G. Van Tendeloo, and E. V. Antipov. Crystal structure, phase transition, and magnetic ordering in perovskitelike Pb_{2-x}BaxFe₂O₅ solid solutions. *Physical Review B*, 78(2), 2008. URL: [⟨Go to ISI⟩://WOS:000258190200085](https://doi.org/10.1103/PhysRevB.78.024426), doi:10.1103/PhysRevB.78.024426.
- ¹²² X. L. Yan, A. Grytsiv, P. Rogl, V. Pomjakushin, and M. Palm. The Heusler Phase Ti-25(Fe_{50-x}Ni_x)Al-25(0 ≤ x ≤ 50); Structure and Constitution. *Journal of Phase Equilibria and Diffusion*, 29(6):500–508, 2008. URL: [⟨Go to ISI⟩://WOS:000261606100006](https://doi.org/10.1007/s11669-008-9389-6), doi:10.1007/s11669-008-9389-6.
- ¹²³ X. L. 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, 2008. URL: [⟨Go to ISI⟩://WOS:000260526000005](https://doi.org/10.1007/s11669-008-9352-6), doi:10.1007/s11669-008-9352-6.
- ¹²⁴ A. Podlesnyak, V. Pomjakushin, E. Pomjakushina, K. Conder, and A. Furrer. Magnetic excitations in the spin-trimer compounds Ca₃Cu_{3-x}Ni_x(PO₄)₄ (x=0,1,2). *Physical Review B*, 76(6), 2007. URL: [⟨Go to ISI⟩://WOS:000249155200073](https://doi.org/10.1103/PhysRevB.76.064420), doi:10.1103/PhysRevB.76.064420.
- ¹²⁵ 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 M_xTiSe₂ compounds intercalated with 3d metals. *Journal of Physics-Condensed Matter*, 19(1), 2007. URL: [⟨Go to ISI⟩://WOS:000243136300006](https://doi.org/10.1088/0953-8984/19/1/016005), doi:10.1088/0953-8984/19/1/016005.
- ¹²⁶ H. Shigematsu, Y. Akishige, S. Gvasaliya, V. Pomjakushin, S. Lushnikov, and S. Kojima. Neutron powder diffraction study of the phase transition in BaTi₂O₅. *Ferroelectrics*, 346:43–48, 2007. URL: [⟨Go to ISI⟩://WOS:000245361400010](https://doi.org/10.1080/00150190601180190), doi:10.1080/00150190601180190.
- ¹²⁷ V. Y. 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), 2007. URL: [⟨Go to ISI⟩://WOS:000251326600095](https://doi.org/10.1103/PhysRevB.76.174433), doi:10.1103/PhysRevB.76.174433.

- ¹²⁸ K. R. Chakraborty, S. M. Yusuf, P. S. R. Krishna, M. Ramanadham, V. Pomjakushin, and A. K. Tyagi. Structural stability of orthorhombic and rhombohedral La_{0.75}Nd_{0.25}CrO₃: a high-temperature neutron diffraction study. *Journal of Physics-Condensed Matter*, 19(21), 2007. URL: [⟨Go to ISI⟩://WOS:000246568100017](https://doi.org/10.1088/0953-8984/19/21/216207), doi:10.1088/0953-8984/19/21/216207.
- ¹²⁹ A. Grytsiv, X. Q. 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, 2007. URL: [⟨Go to ISI⟩://WOS:000244280700041](https://doi.org/10.1016/j.jssc.2006.11.031), doi:10.1016/j.jssc.2006.11.031.
- ¹³⁰ A. Lappas, C. J. Nuttall, Z. G. Fthenakis, V. Y. Pomjakushin, and M. A. Roberts. Topotactic intercalation of a metallic dense host matrix chalcogenide with large electron-phonon coupling: Crystal structures and electronic properties of Li_xMo₂Sb₂ (0 \leq x \leq 0.7). *Chemistry of Materials*, 19(1):69–78, 2007. URL: [⟨Go to ISI⟩://WOS:000243157200011](https://doi.org/10.1021/cm0622147), doi:10.1021/cm0622147.
- ¹³¹ V. Y. 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 (La_{1-y}Pry)(0.7)Ca_{0.3}MnO₃. *Physical Review B*, 75(5), 2007. URL: [⟨Go to ISI⟩://WOS:000244532600054](https://doi.org/10.1103/PhysRevB.75.054410), doi:10.1103/PhysRevB.75.054410.
- ¹³² K. Conder, A. Podlesnyak, E. Pomjakushina, V. Pomjakushin, M. Stingaciu, and A. E. Karkin. Transport properties and oxygen isotope effect in layered cobaltites RBaCo₂O_{5+x}. *Journal of Magnetism and Magnetic Materials*, 310(2):907–909, 2007. URL: [⟨Go to ISI⟩://WOS:000247666000237](https://doi.org/10.1016/j.jmmm.2006.10.487), doi:10.1016/j.jmmm.2006.10.487.
- ¹³³ C. de la Calle, J. A. 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, 2006. URL: [⟨Go to ISI⟩://WOS:000238295800005](https://doi.org/10.1016/j.jssc.2006.02.022), doi:10.1016/j.jssc.2006.02.022.
- ¹³⁴ P. Fischer, V. Pomjakushin, D. Sheptyakov, L. Keller, M. Janoschek, B. Roessli, J. Schefer, G. Pettrakovskii, 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, 2006. URL: [⟨Go to ISI⟩://WOS:000239915700011](https://doi.org/10.1088/0953-8984/18/34/010), doi:10.1088/0953-8984/18/34/010.
- ¹³⁵ L. Malavasi, M. C. Mozzati, C. Ritter, V. Pomjakushin, C. Tealdi, C. B. Azzoni, and G. Flor. Doping effects in single-layered La_{0.5}Sr_{1.5}MnO₄ manganite. *Journal of Physical Chemistry B*, 110(35):17430–17436, 2006. URL: [⟨Go to ISI⟩://WOS:000240158600022](https://doi.org/10.1021/jp063384+), doi:10.1021/jp063384+.
- ¹³⁶ 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, 2006. URL: [⟨Go to ISI⟩://WOS:000236921300011](https://doi.org/10.1016/j.intermet.2005.12.001), doi:10.1016/j.intermet.2005.12.001.
- ¹³⁷ 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 La_{2-x}SrxNiO_{4+delta} (0 \leq x \leq 1). *Dalton Transactions*, (36):4377–4383, 2006. URL: [⟨Go to ISI⟩://WOS:000240501200010](https://doi.org/10.1039/b606316k), doi:10.1039/b606316k.
- ¹³⁸ A. M. Balagurov, I. A. Bobrikov, V. Y. Pomjakushin, D. V. Sheptyakov, N. A. Babushkina, O. Y. Gorbenko, and A. R. Kaul. Structural origin of the giant oxygen isotope effect in Re_{0.5}Sr_{0.5}MnO₃ perovskites. *Physica B-Condensed Matter*, 385:94–96, 2006. URL: [⟨Go to ISI⟩://WOS:000243096400028](https://doi.org/10.1016/j.physb.2006.05.113), doi:10.1016/j.physb.2006.05.113.
- ¹³⁹ J. Schefer, D. Schaniel, V. Pomjakushin, U. Stuhr, V. Petricek, T. Woike, M. Wohlecke, and M. Imlau. Structural properties of Sr_{0.61}Ba_{0.39}Nb₂O₆ in the temperature range 10–500 K investigated by high-resolution neutron powder diffraction and specific heat measurements. *Physical Review B*, 74(13), 2006. URL: [⟨Go to ISI⟩://WOS:000241723200028](https://doi.org/10.1103/PhysRevB.74.134103), doi:10.1103/PhysRevB.74.134103.
- ¹⁴⁰ V. N. Duginov, K. I. Gritsaj, V. Y. Pomjakushin, A. N. Ponomarev, A. A. Nezhivoy, A. V. Gribanov, V. N. Nikiforov, and Y. D. Seropegin. A mu SR study of the magnetic properties of Ce₃Pd₂₀Ge₆. *Physica B-Condensed Matter*, 374:192–194, 2006. URL: [⟨Go to ISI⟩://WOS:000236388800050](https://doi.org/10.1016/j.physb.2005.11.052), doi:10.1016/j.physb.2005.11.052.
- ¹⁴¹ A. M. Balagurov and V. Y. Pomyakushin. Structural aspects of the giant oxygen isotope effect in perovskite manganese oxides. *Crystallography Reports*, 51(5):828–839, 2006. URL: [⟨Go to ISI⟩://WOS:000240807000013](https://doi.org/10.1134/s1063774506050130), doi:10.1134/s1063774506050130.
- ¹⁴² S. N. Bushmeleva, V. Y. 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, 2006. URL: [⟨Go to ISI⟩://WOS:000240831600039](https://doi.org/10.1016/j.jmmm.2006.02.089), doi:10.1016/j.jmmm.2006.02.089.
- ¹⁴³ A. Grytsiv, X. Q. Chen, V. T. Witusiewicz, P. Rogl, R. Podloucky, V. Pomjakushin, D. Maccio, A. Saccone, G. Giester, and F. Sommer. Atom order and thermodynamic properties of the ternary Laves phase Ti(TiyNixAl_{1-x-y})(2). *Zeitschrift Fur Kristallographie*, 221(5-7):334–348, 2006. URL: [⟨Go to ISI⟩://WOS:000239321400006](https://doi.org/10.1524/zkri.2006.221.5-7.334), doi:10.1524/zkri.2006.221.5-7.334.
- ¹⁴⁴ 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(Cr_{0.5}Mo_{0.5})O₃. *Journal of Solid State Chemistry*, 179(8):2506–2510, 2006. URL: [⟨Go to ISI⟩://WOS:000239639600031](https://doi.org/10.1016/j.jssc.2006.04.049), doi:10.1016/j.jssc.2006.04.049.
- ¹⁴⁵ S. N. Gvasaliya, V. Pomjakushin, B. Roessli, T. Straessle, S. Klotz, and S. G. Lushnikov. Anomalous pressure dependence of the atomic displacements in the relaxor ferroelectric PbMg_{1/3}Ta_{2/3}O₃. *Physical Review B*, 73(21), 2006. URL: [⟨Go to ISI⟩://WOS:000238696200002](https://doi.org/10.1103/PhysRevB.73.212102), doi:10.1103/PhysRevB.73.212102.
- ¹⁴⁶ N. A. Babushkina, E. A. Chistotina, A. M. Balagurov, V. Y. Pomjakushin, O. Y. 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, 2006. URL: [⟨Go to ISI⟩://WOS:000208212300028](https://doi.org/10.1016/j.jmmm.2005.10.161), doi:10.1016/j.jmmm.2005.10.161.
- ¹⁴⁷ K. R. Chakraborty, S. M. Yusuf, P. S. R. Krishna, M. Ramanadham, A. K. Tyagi, and V. Pomjakushin. Structural study of La_{0.75}Sr_{0.25}CrO₃ at high temperatures. *Journal of Physics-Condensed Matter*, 18(37):8661–8672, 2006. URL: [⟨Go to ISI⟩://WOS:000241237900027](https://doi.org/10.1088/0953-8984/18/37/022), doi:10.1088/0953-8984/18/37/022.
- ¹⁴⁸ E. A. Sherstobitova, A. F. Gubkin, A. A. Ermakov, A. V. Zakharov, N. V. Baranov, Y. A. Dorofeev, A. N. Pirogov, A. A. Podlesnyak, and V. Y. Pomyakushin. The concentration metamagnetic transition in Tm_{1-x}TbxCo₂ compounds. *Physics of the Solid State*, 48(7):1321–1327, 2006. URL: [⟨Go to ISI⟩://WOS:000239281900017](https://doi.org/10.1134/s1063783406070171), doi:10.1134/s1063783406070171.
- ¹⁴⁹ J. A. Alonso, M. J. 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. URL: [⟨Go to ISI⟩://WOS:000236713700010](https://doi.org/10.1039/b515607f), doi:10.1039/b515607f.
- ¹⁵⁰ X. L. Yan, X. Q. 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(Fe_{1-x}Al_x)(2) with the crystal structure of the MgZn₂-type. *International Journal of Materials Research*, 97(4):450–460, 2006. URL: [⟨Go to ISI⟩://WOS:000238595200017](https://doi.org/10.1016/j.wos:000238595200017).
- ¹⁵¹ L. Malavasi, M. C. Mozzati, V. Pomjakushin, C. Tealdi, C. B. Azzoni, and G. Flor. Absence of long-range magnetic order in the La_{1.4}Sr_{0.8}Ca_{0.8}Mn₂O₇ bilayered manganite. *Journal of Physical Chemistry B*, 110(35):17414–17419, 2006. URL: [⟨Go to ISI⟩://WOS:000240158600019](https://doi.org/10.1021/jp0624597), doi:10.1021/jp0624597.
- ¹⁵² E. Pomjakushina, K. Conder, and V. Pomjakushin. Orbital order-disorder transition with volume collapse in HoBaCo₂O_{5.5}: A high-resolution neutron diffraction study. *Physical Review B*, 73(11), 2006. URL: [⟨Go to ISI⟩://WOS:000236467300005](https://doi.org/10.1103/PhysRevB.73.113105), doi:10.1103/PhysRevB.73.113105.
- ¹⁵³ A. M. Balagurov, I. A. Bobrikov, V. Y. Pomyakushin, D. V. Sheptyakov, N. A. Babushkina, O. Y. Gorbenko, M. S. Kartavtseva, and A. R. Kaul. Magnetostructural phase separation and giant isotope effect in R_{0.5}Sr_{0.5}MnO₃. *Jetp Letters*, 82(9):594–598, 2005. URL: [⟨Go to ISI⟩://WOS:000234483600010](https://doi.org/10.1134/1.2161288), doi:10.1134/1.2161288.
- ¹⁵⁴ N. A. Babushkina, E. A. Chistotina, I. A. Bobrikov, A. M. Balagurov, V. Y. Pomjakushin, A. I. Kurbakov, V. A. Trunov, Y. Gorbenko, R. Kaul, and K. I. Kugel. The effect of oxygen isotope substitution on the phase diagram of nearly half-doped R_{1-x}SrxMnO₃ manganites (R = Sm, NdTb, NdEu). *Journal of Physics-Condensed Matter*, 17(12):1975–1984, 2005. URL: [⟨Go to ISI⟩://WOS:000228616700023](https://doi.org/10.1088/0953-8984/17/12/019), doi:10.1088/0953-8984/17/12/019.
- ¹⁵⁵ J. A. Alonso, M. J. Martinez-Lope, M. T. Casais, J. L. Martinez, and V. Pomjakushin. Synthesis, structural, and magnetic characterization of YCrMnO₅. *European Journal of Inorganic Chemistry*, (13):2600–2606, 2005. URL: [⟨Go to ISI⟩://WOS:000230378300005](https://doi.org/10.1002/ejic.200401057), doi:10.1002/ejic.200401057.
- ¹⁵⁶ 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), 2005. URL: [⟨Go to ISI⟩://WOS:000226864600029](https://doi.org/10.1063/1.1855419), doi:10.1063/1.1855419.

- ¹⁵⁷ 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), 2005. URL: [⟨Go to ISI⟩://WOS:000232933700063](https://doi.org/10.1103/PhysRevB.72.134413), doi:10.1103/PhysRevB.72.134413.
- ¹⁵⁸ K. Conder, E. Pomjakushina, V. Pomjakushin, M. Stingaciuc, S. Streule, and A. Podlesnyak. Oxygen isotope effect on metal-insulator transition in layered cobaltites RBaCo₂O_{5.5} (R = Pr, Dy, Ho and Y). *Journal of Physics-Condensed Matter*, 17(37):5813–5820, 2005. URL: [⟨Go to ISI⟩://WOS:000232550700017](https://doi.org/10.1088/0953-8984/17/37/016), doi:10.1088/0953-8984/17/37/016.
- ¹⁵⁹ 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, 2005. URL: [⟨Go to ISI⟩://WOS:000227698800008](https://doi.org/10.1016/j.intermet.2004.09.004), doi:10.1016/j.intermet.2004.09.004.
- ¹⁶⁰ 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), 2004. URL: [⟨Go to ISI⟩://WOS:000223716300009](https://doi.org/10.1103/PhysRevB.70.060407), doi:10.1103/PhysRevB.70.060407.
- ¹⁶¹ A. M. Balagurov, S. N. Bushmeleva, V. Y. Pomjakushin, D. V. Sheptyakov, V. A. Amelichev, O. Y. Gorbenko, A. R. Kaul, E. A. Gan'shina, and N. B. Perkins. Magnetic structure of NdMnO₃ consistently doped with Sr and Ru. *Physical Review B*, 70(1), 2004. URL: [⟨Go to ISI⟩://WOS:000222996300074](https://doi.org/10.1103/PhysRevB.70.014427), doi:10.1103/PhysRevB.70.014427.
- ¹⁶² 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, 2004. URL: [⟨Go to ISI⟩://WOS:000221009600013](https://doi.org/10.1016/j.intermet.2004.02.002), doi:10.1016/j.intermet.2004.02.002.
- ¹⁶³ J. A. Alonso, F. Rivillas, M. J. 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, 2004. URL: [⟨Go to ISI⟩://WOS:000222314700033](https://doi.org/10.1016/j.jssc.2004.03.046), doi:10.1016/j.jssc.2004.03.046.
- ¹⁶⁴ 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 Sr₂GaMnO_{5+x} (0 \leq x \leq 0.5) and Sr₂GaMn(O,F)(6). *Journal of Magnetism and Magnetic Materials*, 272:820–822, 2004. URL: [⟨Go to ISI⟩://WOS:000222236700030](https://doi.org/10.1016/j.jmmm.2003.11.336), doi:10.1016/j.jmmm.2003.11.336.
- ¹⁶⁵ A. I. Kurbakov, V. A. Trounov, A. M. Balagurov, V. Y. Pomyakushin, D. V. Sheptyakov, O. Y. Gorbenko, and A. R. 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, 2004. URL: [⟨Go to ISI⟩://WOS:000224053800020](https://doi.org/10.1134/1.1799190), doi:10.1134/1.1799190.
- ¹⁶⁶ V. V. Sikolenko, E. V. Pomjakushina, V. Y. 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 ThCr₂Si₂ structure. *Physica B-Condensed Matter*, 350(1-3):E163–E166, 2004. URL: [⟨Go to ISI⟩://WOS:000207887900041](https://doi.org/10.1016/j.physb.2004.03.043), doi:10.1016/j.physb.2004.03.043.
- ¹⁶⁷ R. V. Shpanchenko, V. V. Chernaya, A. A. Tsirlin, P. S. Chizhov, D. E. Sklovsky, E. V. Antipov, E. P. Khlybov, V. Pomjakushin, A. M. Balagurov, J. E. Medvedeva, E. E. Kaul, and C. Geibel. Synthesis, structure, and properties of new perovskite PbVO₃. *Chemistry of Materials*, 16(17):3267–3273, 2004. URL: [⟨Go to ISI⟩://WOS:000223458000013](https://doi.org/10.1021/cm049310x), doi:10.1021/cm049310x.
- ¹⁶⁸ A. M. Balagurov, V. Y. Pomjakushin, D. V. Sheptyakov, N. A. Babushkina, O. Y. Gorbenko, and A. R. Kaul. Comparative study of the magnetic phase diagrams of (La_{1-y}Pry)(0.7)Ca_{0.3}MnO₃ with oxygen isotopes O-16 and O-18. *Physica B-Condensed Matter*, 350(1-3):E1–E3, 2004. URL: [⟨Go to ISI⟩://WOS:000207887900001](https://doi.org/10.1016/j.physb.2004.03.001), doi:10.1016/j.physb.2004.03.001.
- ¹⁶⁹ 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 \leq x \leq 0.5) and Sr₍₂₎GaMn(O,F)(6). *Physica B-Condensed Matter*, 350(1-3):E23–E26, 2004. URL: [⟨Go to ISI⟩://WOS:000207887900006](https://doi.org/10.1016/j.physb.2004.03.014), doi:10.1016/j.physb.2004.03.014.
- ¹⁷⁰ V. V. Sikolenko, D. P. Kozlenko, E. V. Pomjakushina, V. Y. Pomjakushin, A. M. Balagurov, L. Keller, V. P. Glazkov, A. V. Gribanov, I. N. Goncharenko, and B. N. Savenko. Structural study of U(Pd_{1-x}Fex)₂Ge₂ at high pressure. *Journal of Physics-Condensed Matter*, 15(17):2825–2832, 2003. URL: [⟨Go to ISI⟩://WOS:000183071400035](https://doi.org/10.1088/0953-8984/15/17/331), doi:10.1088/0953-8984/15/17/331.

- ¹⁷¹ V. L. Aksenov, A. M. Balagurov, and V. Y. Pomjakushin. Neutron diffraction analysis of doped manganites. *Physics-Uspekhi*, 46(8):856–860, 2003. URL: [⟨Go to ISI⟩://WOS:000187205200006](https://doi.org/10.1070/PU2003v046n08ABEH001650), doi: [10.1070/PU2003v046n08ABEH001650](https://doi.org/10.1070/PU2003v046n08ABEH001650).
- ¹⁷² D. V. Sheptyakov, A. M. Abakumov, E. V. Antipov, A. M. Balagurov, S. J. L. Billinge, P. Fischer, L. Keller, M. V. Lobanov, B. P. Pavlyuk, V. Y. Pomjakushin, and M. G. Rozova. Crystal and magnetic structures of new layered oxides A(2)GaMnO(5+y) (A=Ca,Sr). *Applied Physics a-Materials Science Processing*, 74:S1734–S1736, 2002. URL: [⟨Go to ISI⟩://WOS:000181219600264](https://doi.org/10.1007/s003390201842), doi: [10.1007/s003390201842](https://doi.org/10.1007/s003390201842).
- ¹⁷³ I. V. Golosovsky, I. Mirebeau, A. S. Markosyan, P. Fischer, and V. Y. Pomjakushin. Neutron diffraction study of the magnetic order in the Dy(Mn_{1-x}Al_x)₂ system in the region of a magnetic instability. *Physical Review B*, 65(1), 2002. URL: [⟨Go to ISI⟩://WOS:000173186000075](https://doi.org/10.1103/PhysRevB.65.014405), doi: [10.1103/PhysRevB.65.014405](https://doi.org/10.1103/PhysRevB.65.014405).
- ¹⁷⁴ A. M. Balagurov, V. Y. Pomjakushin, D. V. Sheptyakov, and N. A. Babushkina. Oxygen-isotope effect on crystal and magnetic structures of (La_{1-y}Pry)(0.7)Ca_{0.3}MnO₃. *Applied Physics a-Materials Science Processing*, 74:S1737–S1739, 2002. URL: [⟨Go to ISI⟩://WOS:000181219600265](https://doi.org/10.1007/s003390201843), doi: [10.1007/s003390201843](https://doi.org/10.1007/s003390201843).
- ¹⁷⁵ V. Y. Pomjakushin, A. M. Balagurov, T. V. Elzhov, D. V. Sheptyakov, P. Fischer, D. I. Khomskii, V. Y. Yushankhai, A. M. Abakumov, M. G. Rozova, E. V. Antipov, M. V. Lobanov, and S. J. L. 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), 2002. URL: [⟨Go to ISI⟩://WOS:000179633100048](https://doi.org/10.1103/PhysRevB.66.184412), doi: [10.1103/PhysRevB.66.184412](https://doi.org/10.1103/PhysRevB.66.184412).
- ¹⁷⁶ A. Lappas, V. Alexandrakis, J. Giapintzakis, V. Pomjakushin, K. Prassides, and A. Schenck. Impurity-induced antiferromagnetic order in the Haldane-gap compound PbNi_{2-x}MgxV₂O₈ (x=0.24). *Physical Review B*, 66(1), 2002. URL: [⟨Go to ISI⟩://WOS:000177284900094](https://doi.org/10.1103/PhysRevB.66.014428), doi: [10.1103/PhysRevB.66.014428](https://doi.org/10.1103/PhysRevB.66.014428).
- ¹⁷⁷ A. M. Balagurov, V. Y. Pomjakushin, D. V. Sheptyakov, V. L. Aksenov, P. Fischer, L. Keller, O. Y. Gorbenko, A. R. Kaul, and N. A. Babushkina. Long-scale phase separation versus homogeneous magnetic state in (La_{1-y}Pry)(0.7)Ca_{0.3}MnO₃: A neutron diffraction study. *Physical Review B*, 64(2), 2001. URL: [⟨Go to ISI⟩://WOS:000169835700061](https://doi.org/10.1103/PhysRevB.64.024420), doi: [10.1103/PhysRevB.64.024420](https://doi.org/10.1103/PhysRevB.64.024420).
- ¹⁷⁸ A. M. Balagurov, V. Y. Pomjakushin, D. V. Sheptyakov, V. L. Aksenov, N. A. Babushkina, L. M. Belova, O. Y. Gorbenko, and A. R. Kaul. Evolution of (La_{1-y}Pry)(0.7)Ca_{0.3}MnO₃ crystal structure with A-cation size, temperature, and oxygen isotope substitution. *European Physical Journal B*, 19(2):215–223, 2001. URL: [⟨Go to ISI⟩://WOS:000167425800007](https://doi.org/10.1007/s100510170330), doi: [10.1007/s100510170330](https://doi.org/10.1007/s100510170330).
- ¹⁷⁹ N. A. Babushkina, L. M. Belova, A. N. Taldenkov, V. L. Aksenov, A. M. Balagurov, V. Y. Pomjakushin, D. V. Sheptyakov, O. Y. Gorbenko, A. R. Kaul, K. I. Kugel, and D. I. Khomskii. Isotopically driven transitions in LaPrCaMnO system. *Physica B*, 280(1-4):323–324, 2000. URL: [⟨Go to ISI⟩://WOS:000086333700092](https://doi.org/10.1016/s0921-4526(99)01716-0), doi: [10.1016/s0921-4526\(99\)01716-0](https://doi.org/10.1016/s0921-4526(99)01716-0).
- ¹⁸⁰ 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, 2000. URL: [⟨Go to ISI⟩://WOS:000086413000057](https://doi.org/10.1016/s0921-4526(99)01399-x), doi: [10.1016/s0921-4526\(99\)01399-x](https://doi.org/10.1016/s0921-4526(99)01399-x).
- ¹⁸¹ A. M. Balagurov, P. Fischer, V. Y. Pomjakushin, D. V. Sheptyakov, and V. L. 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, 2000. URL: [⟨Go to ISI⟩://WOS:000086413000240](https://doi.org/10.1016/s0921-4526(99)01748-2), doi: [10.1016/s0921-4526\(99\)01748-2](https://doi.org/10.1016/s0921-4526(99)01748-2).
- ¹⁸² M. V. Lobanov, A. M. Balagurov, V. J. Pomjakushin, P. Fischer, M. Gutmann, A. M. Abakumov, O. G. D'Yachenko, E. V. Antipov, O. I. Lebedev, and G. Van Tendeloo. Structural and magnetic properties of the colossal magnetoresistance perovskite La_{0.85}Ca_{0.15}MnO₃. *Physical Review B*, 61(13):8941–8949, 2000. URL: [⟨Go to ISI⟩://WOS:000086597400059](https://doi.org/10.1103/PhysRevB.61.8941), doi: [10.1103/PhysRevB.61.8941](https://doi.org/10.1103/PhysRevB.61.8941).
- ¹⁸³ A. N. Ponomarev, I. G. Ivanter, I. A. Krivosheev, A. A. Nezhivoy, B. A. Nikolsky, V. N. Duginov, K. I. Gritsaj, V. G. Olshevsky, D. Herlach, V. Y. Pomjakushin, and U. Zimmermann. Magnetic fields acting on muons in textured and single crystalline holmium. *Physica B*, 289:236–239, 2000. URL: [⟨Go to ISI⟩://WOS:000087953500061](https://doi.org/10.1016/s0921-4526(00)00377-x), doi: [10.1016/s0921-4526\(00\)00377-x](https://doi.org/10.1016/s0921-4526(00)00377-x).
- ¹⁸⁴ V. Y. Pomjakushin, A. M. Balagurov, E. V. Raspopina, V. V. Sikolenko, A. V. Gribanov, A. Schenck, A. Amato, U. Zimmermann, and I. S. Lyubutin. Modulated magnetic structure of U(Pd_{1-x}Fex)₂Ge₂ studied by mu SR. *Journal of Physics-Condensed Matter*, 12(36):7969–7981, 2000. URL: [⟨Go to ISI⟩://WOS:000089474700013](https://doi.org/10.1088/0953-8984/12/36/311), doi: [10.1088/0953-8984/12/36/311](https://doi.org/10.1088/0953-8984/12/36/311).

- ¹⁸⁵ Pomjakushin. Magnetic order in pure LaMnO₃ and in Ca-doped single crystals - Comments. *Physica B*, 289:55–55, 2000. URL: [⟨Go to ISI⟩://WOS:000087953500016](https://doi.org/10.1016/s0921-4526(00)00393-8).
- ¹⁸⁶ E. V. Raspopina, A. M. Balagurov, V. Y. Pomjakushin, V. V. Sikolenko, A. V. Gribanov, A. Amato, and A. Schenck. Magnetic structure of U(Pd_{1-x}Fex)(2)Ge-2 studied by mu SR: comparison with neutron diffraction data. *Physica B*, 289:282–285, 2000. URL: [⟨Go to ISI⟩://WOS:000087953500072](https://doi.org/10.1016/s0921-4526(00)00393-8), doi:10.1016/s0921-4526(00)00393-8.
- ¹⁸⁷ V. Y. Pomjakushin, A. M. Balagurov, A. A. Zakharov, F. N. Gygax, A. Schenck, A. Amato, and D. Herlach. Concomitance of magnetic ordering and superconductivity in low oxygen mobility La₂CuO_{4+x} single crystals. *Physica C*, 341:2153–2154, 2000. URL: [⟨Go to ISI⟩://WOS:000165856000034](https://doi.org/10.1016/s0921-4534(00)01137-0), doi:10.1016/s0921-4534(00)01137-0.
- ¹⁸⁸ K. G. Bramnik, G. Miehe, H. Ehrenberg, H. Fuess, A. M. Abakumov, R. V. Shpanchenko, V. Y. Pomjakushin, and A. M. Balagurov. Preparation, structure, and magnetic studies of a new Sr₁₁Re₄O₂₄ double oxide. *Journal of Solid State Chemistry*, 149(1):49–55, 2000. URL: [⟨Go to ISI⟩://WOS:000085229200007](https://doi.org/10.1006/jssc.1999.8493), doi:10.1006/jssc.1999.8493.
- ¹⁸⁹ V. N. Duginov, K. I. Gritsaj, A. Amato, C. Baines, D. Herlach, V. Y. Pomjakushin, U. Zimmermann, A. N. Ponomarev, I. A. Krivosheev, A. A. Nezhivoy, A. V. Gribanov, V. N. Nikiforov, and Y. D. Seropgin. Study of the magnetic properties of Ce₃Pd₂₀Si₆ compound. *Physica B*, 289:43–46, 2000. URL: [⟨Go to ISI⟩://WOS:000087953500013](https://doi.org/10.1016/s0921-4526(00)00249-0), doi:10.1016/s0921-4526(00)00249-0.
- ¹⁹⁰ 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, 2000. URL: [⟨Go to ISI⟩://WOS:000087246000005](https://doi.org/10.1016/s0921-4526(00)00319-7), doi:10.1016/s0921-4526(00)00319-7.
- ¹⁹¹ A. N. Pirogov, A. E. Teplykh, V. I. Voronin, A. E. Kar'kin, A. M. Balagurov, V. Y. Pomyakushin, V. V. Sikolenko, A. N. Petrov, V. A. Cherepanov, and E. A. Filanova. Ferro- and antiferromagnetic ordering in LaMnO_{3+delta}. *Physics of the Solid State*, 41(1):91–96, 1999. URL: [⟨Go to ISI⟩://WOS:000078572200022](https://doi.org/10.1134/1.1130735), doi:10.1134/1.1130735.
- ¹⁹² A. M. Balagurov, V. Y. Pomyakushin, D. V. Sheptyakov, V. L. Aksенов, N. A. Babushkina, A. M. Belova, A. N. Taldenkov, A. V. Inyushkin, P. Fischer, M. Gutmann, L. Keller, O. Y. Gorbenko, V. A. Amelichev, and A. R. Kaul. Changes in the magnetic structure of (La_{0.25}Pr_{0.75})(0.7)Ca_{0.3}MnO₃ upon the isotopic substitution of O-18 for O-16. *Jetp Letters*, 69(1):50–56, 1999. URL: [⟨Go to ISI⟩://WOS:000078829900010](https://doi.org/10.1134/1.567983), doi:10.1134/1.567983.
- ¹⁹³ A. M. Balagurov, V. Y. Pomjakushin, D. V. Sheptyakov, V. L. Aksenov, N. A. Babushkina, L. M. Belova, A. N. Taldenkov, A. V. Inyushkin, P. Fischer, M. Gutmann, L. Keller, O. Y. Gorbenko, and A. R. Kaul. Effect of oxygen isotope substitution on the magnetic structure of (La_{0.25}Pr_{0.75})(0.7)Ca_{0.3}MnO₃. *Physical Review B*, 60(1):383–387, 1999. URL: [⟨Go to ISI⟩://WOS:000081551100056](https://doi.org/10.1103/PhysRevB.60.383), doi:10.1103/PhysRevB.60.383.
- ¹⁹⁴ Y. V. Obukhov, V. Y. Pomjakushin, and A. A. Zakharov. *Dynamics of the phase separation of La₂CuO₄+X single crystals*, volume 356 of *Nato Advanced Science Institutes Series, Series E, Applied Sciences*, pages 659–666. 1999. URL: [⟨Go to ISI⟩://WOS:000081235200034](https://doi.org/10.1016/s0921-4534(99)00393-8).
- ¹⁹⁵ A. M. Balagurov, A. I. Beskrovnyi, V. Y. Pomyakushin, V. G. Simkin, B. S. Bagautdinov, V. S. Shekhtman, and A. A. Zakharov. Twinned La₂CuO₄ structure. *Crystallography Reports*, 44(1):69–77, 1999. URL: [⟨Go to ISI⟩://WOS:000078721500011](https://doi.org/10.1016/s0921-4526(00)00011).
- ¹⁹⁶ D. V. Sheptyakov, V. Y. Pomjakushin, A. M. Balagurov, A. A. Zakharov, C. Chaillout-Bougerol, and G. J. McIntyre. Structure of non-phase-separated La₂CuO_{4.03} studied by single-crystal neutron diffraction. *Physica C*, 321(1-2):103–107, 1999. URL: [⟨Go to ISI⟩://WOS:000082536400012](https://doi.org/10.1016/s0921-4534(99)00376-7), doi:10.1016/s0921-4534(99)00376-7.
- ¹⁹⁷ V. Y. Pomjakushin, A. A. Zakharov, A. M. Balagurov, F. N. Gygax, A. Schenck, A. Amato, D. Herlach, A. I. Beskrovny, V. N. Duginov, Y. V. Obukhov, A. N. Ponomarev, and S. N. Barilo. Microscopic phase separation in La₂CuO_{4+x} induced by the superconducting transition. *Physical Review B*, 58(18):12350–12354, 1998. URL: [⟨Go to ISI⟩://WOS:000077153400078](https://doi.org/10.1103/PhysRevB.58.12350), doi:10.1103/PhysRevB.58.12350.
- ¹⁹⁸ A. M. Balagurov, V. Y. Pomyakushin, V. L. Aksenov, N. M. Plakida, N. A. Babushkina, L. M. Belova, O. Y. Gorbenko, A. R. Kaul, P. Fischer, M. Gutmann, and L. Keller. Behavior of the atomic and magnetic structure of La_{0.35}Pr_{0.35}Ca_{0.30}MnO₃ at a metal-insulator phase transition. *Jetp Letters*, 67(9):705–711, 1998. URL: [⟨Go to ISI⟩://WOS:000075258400012](https://doi.org/10.1016/s0921-4526(00)00012).

- ¹⁹⁹ V. Y. Pomjakushin, A. Amato, A. M. Balagurov, A. I. Beskrovny, V. N. Duginov, F. N. Gygax, D. Herlach, A. N. Ponomarev, A. Schenck, V. G. Simkin, and A. A. Zakharov. Phase separation in La₂CuO_{4+y} single crystals studied by mu SR and neutron diffraction. *Physica C*, 282:1353–1354, 1997. URL: [⟨Go to ISI⟩://WOS:A1997XZ90600116, doi:10.1016/s0921-4534\(97\)00758-2](https://doi.org/10.1016/s0921-4534(97)00758-2).
- ²⁰⁰ T. N. Mamedov, I. L. Chaplygin, V. N. Duginov, V. G. Grebinnik, K. I. Gritsaj, V. G. Olshevsky, V. Y. Pomjakushin, A. V. Stoykov, V. A. Zhukov, I. A. Krivosheev, B. A. Nikolsky, A. N. Ponomarev, and V. N. Gorelkin. Anomalous frequency shift of negative muon spin precession in n-type silicon. *Hyperfine Interactions*, 105(1-4):345–349, 1997. URL: [⟨Go to ISI⟩://WOS:A1997XB05400047, doi:10.1023/a:1012688329281](https://doi.org/10.1023/a:1012688329281).
- ²⁰¹ A. M. Balagurov, V. Y. Pomjakushin, V. G. Simkin, and A. A. Zakharov. Single-crystal diffraction study of phase separation in La₂CuO_{4+delta}. *Physica B*, 234:797–799, 1997. URL: [⟨Go to ISI⟩://WOS:A1997XG66600300, doi:10.1016/s0921-4526\(96\)01099-x](https://doi.org/10.1016/s0921-4526(96)01099-x).
- ²⁰² V. Y. Pomjakushin, A. Amato, V. N. Duginov, F. N. Gygax, D. Herlach, A. N. Ponomarev, A. Schenck, and A. A. Zakharov. Spin-freezing in superconducting La₂CuO_{4.03} single crystal. *Hyperfine Interactions*, 105(1-4):83–88, 1997. URL: [⟨Go to ISI⟩://WOS:A1997XB05400009, doi:10.1023/a:1012610212017](https://doi.org/10.1023/a:1012610212017).
- ²⁰³ I. A. Krivosheev, A. A. Nezhivoi, B. A. Nikolskii, A. N. Ponomarev, V. N. Duginov, V. G. Olshevskii, and V. Y. Pomyakushin. Investigation of the magnetic structure of holmium by the muonic method. *Jetp Letters*, 65(1):81–85, 1997. URL: [⟨Go to ISI⟩://WOS:A1997WJ25500014, doi:10.1134/1.567329](https://doi.org/10.1134/1.567329).
- ²⁰⁴ I. A. Krivosheev, V. N. Duginov, V. G. Grebinnik, K. I. Gritsaj, T. N. Mamedov, V. N. Nikiforov, V. G. Olshevsky, V. Y. Pomjakushin, A. N. Ponomarev, Y. D. Seropegin, V. A. Zhukov, M. Baran, and H. Szymczak. mu SR study of intermediate heavy fermion system CeRuSi₂. *Hyperfine Interactions*, 104(1-4):187–192, 1997. URL: [⟨Go to ISI⟩://WOS:A1997XB05300029, doi:10.1023/a:1012679810684](https://doi.org/10.1023/a:1012679810684).
- ²⁰⁵ V. N. Duginov, V. G. Grebinnik, K. I. Gritsaj, T. N. Mamedov, V. G. Olshevsky, V. Y. Pomjakushin, V. A. Zhukov, I. A. Krivosheev, A. N. Ponomarev, V. N. Nikiforov, Y. D. Seropegin, M. Baran, and H. Szymczak. mu SR study of the intermediate heavy-fermion system CeRuSi₂. *Physical Review B*, 55(18):12343–12347, 1997. URL: [⟨Go to ISI⟩://WOS:A1997XA26000060, doi:10.1103/PhysRevB.55.12343](https://doi.org/10.1103/PhysRevB.55.12343).
- ²⁰⁶ Y. Obukhov, V. Y. Pomjakushin, A. A. Zakharov, and A. A. Nikonov. *Superconductivity in the La₂CuO_{4.03} single crystal system*, volume 26 of *Physics and Materials Science of High Temperature Superconductors, Iv.* 1997. URL: [⟨Go to ISI⟩://WOS:A1997BH53X00012](https://doi.org/10.1016/s0921-4534(96)00610-7).
- ²⁰⁷ V. Y. Pomjakushin, A. A. Zakharov, A. Amato, V. N. Duginov, F. N. Gygax, D. Herlach, A. N. Ponomarev, and A. Schenck. Spin-glass ordering in non phase separated La₂CuO_{4.03} studied by mu SR. *Physica C*, 272(3-4):250–256, 1996. URL: [⟨Go to ISI⟩://WOS:A1996WA26500011, doi:10.1016/s0921-4534\(96\)00610-7](https://doi.org/10.1016/s0921-4534(96)00610-7).
- ²⁰⁸ A. M. Balagurov, V. Y. Pomyakushin, V. G. Simkin, and A. A. Zakharov. Neutron diffraction investigation of phase separation in La₂CuO_{4+y} single crystals. *Jetp Letters*, 64(4):279–284, 1996. URL: [⟨Go to ISI⟩://WOS:A1996VK83800007, doi:10.1134/1.567184](https://doi.org/10.1134/1.567184).
- ²⁰⁹ A. M. Balagurov, V. G. Simkin, V. Y. Pomyakushin, and A. A. Zacharov. NEUTRON HIGH RESOLUTION SINGLE CRYSTAL DIFFRACTION STUDY OF PHASE SEPARATION PHENOMENON IN La₂CuO_{4+delta}. *Acta Crystallographica a-Foundation and Advances*, 52:C382–C382, 1996. URL: [⟨Go to ISI⟩://WOS:000410483200707, doi:10.1107/s0108767396084255](https://doi.org/10.1107/s0108767396084255).
- ²¹⁰ V. G. Grebinnik, K. I. Gritsai, V. N. Duginov, V. A. Zhukov, B. F. Kirillov, Y. A. Koksharov, I. A. Krivosheev, T. N. Mamedov, V. N. Nikiforov, B. A. Nikolsky, V. G. Olshevsky, A. V. Pirogov, V. Y. Pomyakushin, A. N. Ponomarev, and V. A. Suetin. mu SR and ESR investigations of cupric oxide. *Physics of Atomic Nuclei*, 59(2):195–198, 1996. URL: [⟨Go to ISI⟩://WOS:A1996TY59800003](https://doi.org/10.1007/bf01096739).
- ²¹¹ V. N. Gorelkin, V. G. Grebinnik, K. I. Gritsai, V. N. Duginov, V. A. Zhukov, T. N. Mamedov, V. G. Olshevskii, V. Y. Pomyakushin, A. V. Stoikov, I. L. Chaplygin, I. A. Krivosheev, B. A. Nikolskii, and A. N. 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, 1996. URL: [⟨Go to ISI⟩://WOS:A1996UP03200012, doi:10.1134/1.567065](https://doi.org/10.1134/1.567065).
- ²¹² A. M. Balagurov, V. Y. Pomjakushin, V. G. Simkin, and A. A. Zakharov. Neutron diffraction study of phase separation in La₂CuO_{4+delta} single crystals. *Physica C*, 272(3-4):277–284, 1996. URL: [⟨Go to ISI⟩://WOS:A1996WA26500014, doi:10.1016/s0921-4534\(96\)00582-5](https://doi.org/10.1016/s0921-4534(96)00582-5).

- ²¹³ V. N. Duginov, V. G. Grebinnik, R. Horyn, B. F. Kirillov, J. Klamut, I. A. Krivosheev, T. N. Mamedov, V. G. Olshevsky, A. V. Pirogov, V. Y. Pomjakushin, A. N. Ponomarev, A. J. Zaleski, and V. A. Zhukov. MAGNETIC TRANSITIONS IN Y₂CU₂O₅ STUDIED BY MU-SR. *Journal of Magnetism and Magnetic Materials*, 140:1577–1578, 1995. URL: [⟨Go to ISI⟩://WOS:A1995QM73000054](https://doi.org/10.1016/0304-8853(94)00976-7), doi:10.1016/0304-8853(94)00976-7.
- ²¹⁴ V. G. Grebinnik, V. N. Duginov, V. A. Zhukov, E. A. Kravchenko, I. A. Krivosheev, T. N. Mamedov, B. A. Nikolskii, V. G. Olshevskii, V. G. Orlov, V. Y. Pomyakushin, A. N. Ponomarev, and V. A. Suetin. STUDY OF ALPHA-BI₂O₃ BISMUTH OXIDE BY MUON METHODS. *Zhurnal Ekspertimentalnoi i Teoreticheskoi Fiziki*, 108(3):878–884, 1995. URL: [⟨Go to ISI⟩://WOS:A1995TD79800009](https://doi.org/10.1007/bf02069439).
- ²¹⁵ V. Y. Pomjakushin, V. N. Duginov, V. G. Grebinnik, B. F. Kirillov, T. N. Mamedov, V. G. Olshevsky, A. V. Pirogov, A. N. Ponomarev, and V. A. Zhukov. NONZERO INITIAL MUON PRECESSION PHASE IN AF LA₂CUO₄-Y. *Hyperfine Interactions*, 85(1-4):305–310, 1994. URL: [⟨Go to ISI⟩://WOS:A1994PA11600043](https://doi.org/10.1007/bf02069439), doi:10.1007/bf02069439.
- ²¹⁶ V. N. Duginov, V. G. Grebinnik, T. N. Mamedov, V. G. Olshevsky, V. Y. Pomjakushin, V. A. Zhukov, B. F. Kirillov, B. A. Nikolsky, V. G. Orlov, A. V. Pirogov, A. N. Ponomarev, V. A. Suetin, and E. A. 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. URL: [⟨Go to ISI⟩://WOS:A1994PA11600025](https://doi.org/10.1007/bf02069421), doi:10.1007/bf02069421.
- ²¹⁷ E. P. Krasnoperov, E. E. Meilikhov, A. N. Ponomarev, V. Y. Pomyakushin, D. G. Eshchenko, V. N. Duginov, V. A. Zhukov, T. N. Mamedov, and V. G. Olshevskii. FORMATION OF MUONIUM IN CONDENSED NEON. *Jetp Letters*, 59(11):749–752, 1994. URL: [⟨Go to ISI⟩://WOS:A1994NY35200001](https://doi.org/10.1007/bf02069421).
- ²¹⁸ V. N. Duginov, V. G. Grebinnik, R. Horyn, B. F. Kirillov, J. Klamut, I. A. Krivosheev, T. N. Mamedov, V. G. Olshevsky, A. V. Pirogov, V. Y. Pomjakushin, A. N. Ponomarev, A. J. Zaleski, and V. A. Zhukov. 2 SUCCESSIVE MAGNETIC TRANSITIONS IN Y₂CU₂O₅ STUDIED BY MU-SR. *Hyperfine Interactions*, 85(1-4):311–316, 1994. URL: [⟨Go to ISI⟩://WOS:A1994PA11600044](https://doi.org/10.1007/bf02069440), doi:10.1007/bf02069440.
- ²¹⁹ V. Storchak, B. F. Kirillov, A. V. Pirogov, V. N. Duginov, V. G. Grebinnik, V. G. Olshevsky, A. B. Lazarev, V. Y. Pomyakushin, S. N. Shilov, and V. A. Zhukov. ANTIFERROMAGNETIC SOLID OXYGEN STUDIED BY POSITIVE MUONS. *Hyperfine Interactions*, 85(1-4):345–350, 1994. URL: [⟨Go to ISI⟩://WOS:A1994PA11600049](https://doi.org/10.1007/bf02069445), doi:10.1007/bf02069445.
- ²²⁰ V. Storchak, B. F. Kirillov, A. V. Pirogov, V. N. Duginov, V. G. Grebinnik, V. G. Olshevsky, V. Y. Pomyakushin, A. B. Lazarev, S. N. Shilov, and V. A. Zhukov. ANTIFERROMAGNETIC PROPERTIES OF SOLID OXYGEN STUDIED BY POSITIVE MUONS. *Physics Letters A*, 185(3):338–342, 1994. URL: [⟨Go to ISI⟩://WOS:A1994MY15400017](https://doi.org/10.1016/0375-9601(94)90625-4), doi:10.1016/0375-9601(94)90625-4.
- ²²¹ V. N. Duginov, V. G. Grebinnik, K. I. Gritsaj, T. N. Mamedov, V. G. Olshevsky, V. Y. Pomjakushin, V. A. Zhukov, B. F. Kirillov, I. A. Krivosheev, A. V. Pirogov, and A. N. Ponomarev. MU-SR INVESTIGATION OF CUPRIC OXIDE. *Hyperfine Interactions*, 85(1-4):317–322, 1994. URL: [⟨Go to ISI⟩://WOS:A1994PA11600045](https://doi.org/10.1007/bf02069441), doi:10.1007/bf02069441.
- ²²² E. I. Kornilov and V. Y. 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, 1994. URL: [⟨Go to ISI⟩://WOS:A1994NG31200006](https://doi.org/10.1016/0038-1098(94)90729-3), doi:10.1016/0038-1098(94)90729-3.
- ²²³ T. N. Mamedov, V. N. Duginov, V. G. Grebinnik, K. I. Gritsaj, V. G. Olshevsky, V. Y. Pomjakushin, V. A. Zhukov, B. F. Kirillov, B. A. Nikolsky, A. V. Pirogov, A. N. Ponomarev, V. A. Suetin, and V. N. Gorelkin. INVESTIGATION OF THE BEHAVIOR OF THE IMPURITY ATOMS IN SI BY MU-SR-METHOD. *Hyperfine Interactions*, 86(1-4):717–722, 1994. URL: [⟨Go to ISI⟩://WOS:A1994PA11700038](https://doi.org/10.1007/bf02068969), doi:10.1007/bf02068969.
- ²²⁴ V. Y. Pomjakushin, S. Kapusta, V. N. Duginov, V. G. Grebinnik, K. I. Gritsaj, B. F. Kirillov, I. A. Krivosheev, T. N. Mamedov, F. C. Matacotta, P. Nozar, V. G. Olshevsky, A. V. Pirogov, A. N. Ponomarev, and V. A. Zhukov. MAGNETIC PENETRATION DEPTH IN BAPB₁-XBIXO₃ MEASURED BY MU-SR. *Physica C*, 235:1817–1818, 1994. URL: [⟨Go to ISI⟩://WOS:A1994QC69500138](https://doi.org/10.1016/0921-4534(94)92130-x), doi:10.1016/0921-4534(94)92130-x.
- ²²⁵ M. Weber, A. Amato, F. N. Gygax, A. Schenck, H. Maletta, V. N. Duginov, V. G. Grebinnik, A. B. Lazarev, V. G. Olshevsky, V. Y. Pomjakushin, S. N. Shilov, V. A. Zhukov, B. F. Kirillov, A. V.

- Pirogov, A. N. Ponomarev, V. G. Storchak, S. Kapusta, and J. Bock. MAGNETIC-FLUX DISTRIBUTION AND THE MAGNETIC PENETRATION DEPTH IN SUPERCONDUCTING POLYCRYSTALLINE BI₂SR₂CA₁-XYXCU₂O₈+DELTA AND BI₂-XPBXR₂CACU₂O₈+DELTA. *Physical Review B*, 48(17):13022–13036, 1993. URL: [⟨Go to ISI⟩://WOS:A1993MF90100076](https://doi.org/10.1103/PhysRevB.48.13022), doi:10.1103/PhysRevB.48.13022.
- ²²⁶ V. G. Grebinnik, V. N. Duginov, V. A. Zhukov, B. F. Kirillov, N. M. Kotov, V. I. Kudinov, T. N. Mamedov, B. A. Nikolskii, Y. V. Obukhov, V. G. Olshevskii, A. V. Pirogov, V. Y. Pomyakushin, A. N. Ponomarev, G. I. Savelev, V. A. Suetin, and V. G. 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, 1993. URL: [⟨Go to ISI⟩://WOS:A1993LE61400004](https://doi.org/10.1007/BF01020004).
- ²²⁷ V. N. Gorelkin, V. G. Grebinnik, K. I. Gritsai, V. N. Duginov, V. A. Zhukov, T. N. Mamedov, V. G. Olshevskii, V. Y. Pomyakushin, B. F. Kirillov, B. A. Nikolskii, A. V. Pirogov, and A. N. Ponomarev. MU-SR STUDY OF THE BEHAVIOR OF IMPURITY ATOMS IN SILICON. *Physics of Atomic Nuclei*, 56(10):1316–1319, 1993. URL: [⟨Go to ISI⟩://WOS:A1993MG06500004](https://doi.org/10.1007/BF01020004).
- ²²⁸ V. G. Grebinnik, V. N. Duginov, V. A. Zhukov, B. F. Kirillov, E. A. Kravchenko, T. N. Mamedov, B. A. Nikolskii, V. G. Olshevskii, V. G. Orlov, A. V. Pirogov, V. Y. Pomyakushin, A. N. Ponomarev, and V. A. Suetin. STUDY OF LOCAL MAGNETIC-FIELDS IN THE OXIDE ALPHA-BI₂O₃ USING THE MUON METHOD. *Physics of Atomic Nuclei*, 56(2):185–188, 1993. URL: [⟨Go to ISI⟩://WOS:A1993KU94800008](https://doi.org/10.1007/BF01020004).
- ²²⁹ H. Maletta, M. Weber, A. Amato, J. Bock, V. N. Duginov, V. G. Grebinnik, F. N. Gygax, S. Kapusta, B. F. Kirillov, V. G. Olshevsky, A. V. Pirogov, Y. Y. Pomjakushin, A. N. Ponomarev, E. Preisler, A. Schenck, V. G. Storchak, and V. A. Zhukov. CHARGE-TRANSFER AND CARRIER DENSITY IN BI-2212 HIGH-TC SUPERCONDUCTORS. *Journal of Magnetism and Magnetic Materials*, 104:495–496, 1992. URL: [⟨Go to ISI⟩://WOS:A1992HH32600219](https://doi.org/10.1016/0304-8853(92)90893-s), doi:10.1016/0304-8853(92)90893-s.
- ²³⁰ V. G. Storchak, B. F. Kirillov, A. V. Pirogov, V. N. Duginov, V. G. Grebinnik, A. B. Lazarev, V. G. Olshevsky, V. Y. Pomyakushin, S. N. Shilov, and V. A. Zhukov. ON THE NATURE OF THE MUON COMPLEX IN CONDENSED OXYGEN. *Physics Letters A*, 166(5-6):429–432, 1992. URL: [⟨Go to ISI⟩://WOS:A1992JD70900027](https://doi.org/10.1016/0375-9601(92)90737-7), doi:10.1016/0375-9601(92)90737-7.
- ²³¹ S. Kapusta, J. Sebek, V. Y. Pomjakushin, V. N. Duginov, V. A. Zhukov, V. G. Olshevsky, A. N. Ponomarev, A. V. Pirogov, B. F. 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*, 185:1765–1766, 1991. URL: [⟨Go to ISI⟩://WOS:A1991GX30800174](https://doi.org/10.1016/0921-4534(91)91008-r), doi:10.1016/0921-4534(91)91008-r.
- ²³² M. Weber, A. Amato, P. Birrer, V. N. Duginov, V. G. Grebinnik, F. N. Gygax, S. Kapusta, B. F. Kirillov, E. Lippelt, H. Maletta, V. G. Olshevsky, A. V. Pirogov, V. Y. Pomjakushin, A. N. Ponomarev, A. Schenck, V. G. Storchak, and V. A. Zhukov. LONDON PENETRATION DEPTH IN BI-BASED HIGH-TC COMPOUNDS. *Superconductor Science Technology*, 4:S403–S405, 1991. URL: [⟨Go to ISI⟩://WOS:A1991FA42000121](https://doi.org/10.1088/0953-2048/4/1s/120), doi:10.1088/0953-2048/4/1s/120.
- ²³³ E. I. Kornilov and V. Y. Pomjakushin. ON A GENERALIZATION OF THE KUBO-TOYABE FORMULA. *Physics Letters A*, 153(6-7):364–367, 1991. URL: [⟨Go to ISI⟩://WOS:A1991FD39500022](https://doi.org/10.1016/0375-9601(91)90959-c), doi:10.1016/0375-9601(91)90959-c.
- ²³⁴ M. Weber, A. Amato, P. Birrer, V. N. Duginov, V. G. Grebinnik, F. N. Gygax, S. Kapusta, B. F. Kirillov, E. Lippelt, H. Maletta, V. G. Olshevsky, A. V. Pirogov, V. Y. Pomjakushin, A. N. Ponomarev, A. Schenck, V. G. Storchak, and V. A. Zhukov. LONDON PENETRATION DEPTH IN BI-BASED HIGH-TC COMPOUNDS. High Temperature Superconductivity ///. 1991. URL: [⟨Go to ISI⟩://WOS:A1991BT82J00120](https://doi.org/10.1016/0375-9601(91)90959-c).
- ²³⁵ II Gurevich, I. G. Ivanter, B. F. Kirillov, B. A. Nikolskii, A. V. Pirogov, A. N. Ponomarev, V. A. Suetin, V. G. Grebinnik, V. N. Duginov, V. A. Zhukov, A. B. Lazarev, V. G. Olshevskii, V. Y. Pomyakushin, and S. N. Shilov. THE MUON STUDY OF THE MAGNETIC-PROPERTIES IN SAMARIUM. *Zhurnal Eksperimentalnoi I Teoreticheskoi Fiziki*, 100(4):1353–1357, 1991. URL: [⟨Go to ISI⟩://WOS:A1991GP63200022](https://doi.org/10.1007/BF01020002).
- ²³⁶ M. Weber, A. Amato, V. N. Duginov, V. G. Grebinnik, II Gurevich, F. N. Gygax, S. Kapusta, B. F. Kirillov, A. B. Lazarev, H. Maletta, B. A. Nikolsky, V. G. Olshevsky, A. V. Pirogov, V. Y. Pomjakushin,

- A. N. Ponomarev, A. Schenck, S. N. Shilov, V. G. Storchak, V. A. Suetin, and V. A. Zhukov. THE MU-SR-STUDY OF THE LONDON PENETRATION DEPTH IN THE HIGH-TC COMPOUNDS BI₂SR₂CA₁-XYXC_U2O₈+DELTA. *Physica C*, 185:1093–1094, 1991. URL: [⟨Go to ISI⟩://WOS:A1991GW83000181](https://doi.org/10.1016/0921-4534(91)91770-5), doi:10.1016/0921-4534(91)91770-5.
- ²³⁷ M. Weber, A. Amato, J. Bock, V. N. Duginov, I. A. Gaganov, V. G. Grebinnik, F. N. Gygax, S. Kapusta, B. F. Kirillov, A. B. Lazarev, H. Maletta, V. G. Olshevsky, A. V. Pirogov, V. Y. Pomjakushin, A. N. Ponomarev, E. Preisler, A. Schenck, S. N. Shilov, V. G. Storchak, and V. A. Zhukov. ELECTRONIC CARRIER DENSITY IN DOPED BI-BASED HIGH-TC SUPERCONDUCTORS. *Physica C*, 185:749–750, 1991. URL: [⟨Go to ISI⟩://WOS:A1991GW83000009](https://doi.org/10.1016/0921-4534(91)91598-x), doi:10.1016/0921-4534(91)91598-x.
- ²³⁸ V. G. Grebinnik, V. N. Duginov, V. A. Zhukov, S. Kapusta, A. B. Lazarev, V. G. Olshevsky, V. Y. Pomjakushin, S. N. Shilov, II Gurevich, B. F. Kirillov, E. P. Krasnoperov, B. A. Nikolsky, A. V. Pirogov, A. N. Ponomarev, V. A. Suetin, and A. I. 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. URL: [⟨Go to ISI⟩://WOS:A1990EZ42700032](https://doi.org/10.1016/0921-4534(91)91598-x).
- ²³⁹ V. H. Dodokhov, V. N. Duginov, I. A. Gaganov, V. G. Grebinnik, S. Kapusta, A. B. Lazarev, V. G. Olshevsky, V. Y. Pomjakushin, V. S. Roganov, S. N. Shilov, V. A. Zhukov, V. G. Zinov, II Gurevich, B. F. Kirillov, E. P. Krasnoperov, B. A. Nikolsky, A. V. Pirogov, A. N. Ponomarev, V. G. Storchak, V. A. 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. URL: [⟨Go to ISI⟩://WOS:A1990EZ85600052](https://doi.org/10.1016/0921-4534(91)91598-x).
- ²⁴⁰ V. G. Grebinnik, V. N. Duginov, V. A. Zhukov, S. Kapusta, A. B. Lazarev, V. G. Olshevsky, V. Y. Pomjakushin, S. N. Shilov, D. T. Bezhitadze, II Gurevich, B. F. Kirillov, E. P. Krasnoperov, B. A. Nikolsky, A. V. Pirogov, A. N. Ponomarev, V. A. Suetin, and G. F. 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, 1990. URL: [⟨Go to ISI⟩://WOS:A1990EB07000009](https://doi.org/10.1016/0921-4534(91)91598-x), doi:10.1016/bf02407578.
- ²⁴¹ V. G. Grebinnik, V. N. Duginov, V. A. Zhukov, S. Kapusta, A. B. Lazarev, V. G. Olshevsky, V. Y. Pomjakushin, S. N. Shilov, D. T. Bezhitadze, II Gurevich, B. F. Kirillov, E. P. Krasnoperov, B. A. Nikolsky, A. V. Pirogov, A. N. Ponomarev, V. A. Suetin, G. F. Tavadze, I. P. Borovinskaya, M. D. Nersesyan, A. G. Peresada, Y. F. Eltzev, V. R. Karasik, and O. E. 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, 1990. URL: [⟨Go to ISI⟩://WOS:A1990EB07000010](https://doi.org/10.1016/0921-4534(91)91598-x), doi:10.1016/bf02407579.
- ²⁴² V. G. Grebinnik, V. N. Duginov, V. A. Zhukov, S. Kapusta, A. B. Lazarev, V. G. Olshevsky, V. Pomjakushin, S. N. Shilov, II Gurevich, B. F. Kirillov, B. A. Nikolsky, A. V. Pirogov, A. N. Ponomarev, V. A. 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-CACU-O. *Hyperfine Interactions*, 61(1-4):1081–1084, 1990. URL: [⟨Go to ISI⟩://WOS:A1990EB07000007](https://doi.org/10.1016/0921-4534(91)91598-x), doi:10.1016/bf02407576.
- ²⁴³ V. G. Grebinnik, V. N. Duginov, V. A. Zhukov, S. Kapusta, A. B. Lazarev, V. G. Olshevsky, V. Y. Pomjakushin, S. N. Shilov, II Gurevich, B. F. Kirillov, B. A. Nikolsky, A. V. Pirogov, A. N. Ponomarev, V. A. Suetin, I. P. Borovinskaya, M. D. Nersesyan, A. G. Peresada, Y. F. Eltzev, V. R. Karasik, and O. E. Omelyanovski. ANTIFERROMAGNETISM AND SPIN-GLASS-LIKE BEHAVIOR IN CERAMICS LA₂-XSR_XCUO₄ STUDIED BY MU-SR. *Hyperfine Interactions*, 61(1-4):1085–1088, 1990. URL: [⟨Go to ISI⟩://WOS:A1990EB07000008](https://doi.org/10.1016/0921-4534(91)91598-x), doi:10.1016/bf02407577.
- ²⁴⁴ V. G. Grebinnik, V. N. Duginov, V. A. Zhukov, S. Kapusta, A. B. Lazarev, V. G. Olshevsky, V. Y. Pomjakushin, S. N. Shilov, I. K. Ageenkova, A. M. Brjazkalo, B. F. Kirillov, A. V. Pirogov, B. A. Nikolsky, A. N. Ponomarev, V. N. Sumarokov, A. G. 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. URL: [⟨Go to ISI⟩://WOS:A1990EZ42700016](https://doi.org/10.1016/0921-4534(91)91598-x).
- ²⁴⁵ V. G. Grebinnik, V. N. Duginov, V. A. Zhukov, S. Kapusta, A. B. Lazarev, V. G. Olshevsky, V. Y. Pomjakushin, S. N. Shilov, B. F. Kirillov, A. V. Pirogov, and A. N. 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. URL: [⟨Go to ISI⟩://WOS:A1990EZ42700017](https://doi.org/10.1016/0921-4534(91)91598-x).

- ²⁴⁶ V. G. Grebinnik, V. N. Duginov, V. A. Zhukov, S. Kapusta, A. B. Lazarev, V. G. Olshevsky, V. Y. Pomjakushin, S. N. Shilov, II Gurevich, B. F. Kirillov, B. A. Nikolsky, A. V. Pirogov, A. N. Ponomarev, V. A. Suetin, A. G. Peresada, M. D. Nersesyan, I. P. Borovinskaya, V. R. Karasik, O. E. Omelyanovsky, and T. G. Togonidze. THE MU-SR-INVESTIGATION OF THE MAGNETIC AND SUPERCONDUCTING PROPERTIES OF THE COMPOUND LA₂-XSRXCUO₄. *Physica C*, 162:145–146, 1989. URL: [⟨Go to ISI⟩://WOS:A1989CG48900069](https://doi.org/10.1016/0921-4534(89)90959-3), doi:10.1016/0921-4534(89)90959-3.