Publikationsliste (Dr. Lubov Vassilevskaya)

1. A.V. Kuznetsov, N.V. Mikheev, G.G. Raffelt and L.A. Vassilevskaya, "Neutrino dispersion in external magnetic fields", Phys. Rev. **D73**, 023001 (2006) [arXiv:hep-ph/0505092].

2. L.A. Vassilevskaya and A.V. Averin, "An approach to automatic indexing of scientific publications in High Energy Physics for database SPIRES HEP", arXiv:cs/0211041 (2002).

3. L.A. Vassilevskaya, "An approach to automatic indexing of scientific publications in High Energy Physics for database SPIRES HEP", Abschlussarbeit, Institut für Information und Dokumentation, Potsdam, DESY-L-02-01 (2002).

4. L.A. Vassilevskaya, N.V. Mikheev and A.Y. Parkhomenko, "Axion selfenergy in a magnetic field", Phys. Atom. Nucl. **64**, 294 (2001) [Yad. Fiz. **64**, 342 (2001)].

5. N.V. Mikheev, A.Y. Parkhomenko and L.A. Vassilevskaya, "Magnetic-field influence on radiative axion decay into photons of the same polarization", Phys. Atom. Nucl. **63**, 1046 (2000) [Yad. Fiz. **63**, 1122 (2000)].

6. N.V. Mikheev, A.Y. Parkhomenko and L.A. Vassilevskaya, "Axion mass shift in strong magnetic field", *Prepared for International Workshop on Strong Magnetic Fields in Neutrino Astrophysics, Yaroslavl, Russia, 5–8 Oct 1999.*

7. N.V. Mikheev, A.Y. Parkhomenko and L.A. Vassilevskaya, "Mass shift of axion in magnetic field", *Prepared for the 3rd International Conference on Particle Physics und the Early Universe, Trieste, Italy, 27 Sep. – 3 Oct. 1999*, arXiv:hep-ph/0001210.

8. N.V. Mikheev, A.Y. Parkhomenko and L.A. Vassilevskaya, "Axion decay of a photon in an external electromagnetic field", Mod. Phys. Lett. **A13**, 1899 (1998) [arXiv:hep-ph/9903401].

9. N.V. Mikheev, A.Y. Parkhomenko and L.A. Vassilevskaya, "Axion in an external electromagnetic field", Phys. Rev. **D60**, 035001 (1999) [arXiv:hep-ph/9903415].

10. N.V. Mikheev, G.G. Raffelt and L.A. Vassilevskaya, "Plasma emission of axions in the presence of strong magnetic fields", Nucl. Phys. Proc. Suppl. **72**, 62 (1999).

11. L.A. Vassilevskaya, A.V. Kuznetsov and N.V. Mikheev, "Neutrino photon interaction induced by a magnetic field", Phys. Atom. Nucl. **62**, 666 (1999) [Yad. Fiz. **62**, 715 (1999)].

12. L.A. Vassilevskaya, N.V. Mikheev, O.S. Ovchinnikov and A.Y. Parkhomenko, "Axion electron interaction induced by an external magnetic field", Phys. Atom. Nucl. **62**, 1556 (1999) [Yad. Fiz. **62**, 1662 (1999)].

13. L.A. Vassilevskaya, N.V. Mikheev and A.Y. Parkhomenko, "Photon axion processes in a crossed external field", Phys. Atom. Nucl. **62**, 1687 (1999) [Yad. Fiz. **62**, 1812 (1999)].

14. N.V. Mikheev, A.Y. Parkhomenko and L.A. Vassilevskaya, "Field-induced axion emissivity of photon gas", Phys. Atom. Nucl. **62**, 2087 (1999) [Yad. Fiz. **62**, 2266 (1999)].

15. N.V. Mikheev, A.Y. Parkhomenko and L.A. Vassilevskaya, "Axion decay $a \to e^+e^-$ in a medium", Phys. Atom. Nucl. **62**, 2090 (1999) [Yad. Fiz. **62**, 2269 (1999)].

16. N.V. Mikheev, A.Y. Parkhomenko and L.A. Vassilevskaya, "Field-induced axion emission via process $e^+e^- \to a$ in plasma", Mod. Phys. Lett. **A13**, 2593 (1998) [arXiv:hep-ph/9812391].

17. N.V. Mikheev, A.Y. Parkhomenko and L.A. Vassilevskaya, "Field-induced axion decay a $\to e^+e^-$ in plasma", Phys. Lett. **B439**, 345 (1998) [arXiv:hep-ph/9812425].

18. A.V. Kuznetsov, N.V. Mikheev and L.A. Vassilevskaya, "About the influence of external electromagnetic fields on neutrino processes $\nu \to \nu\gamma$, $\nu \to \nu e^+e^-$, $\gamma \to \nu\bar{\nu}$", *Prepared for Ringberg Euroconference: New Trends in Neutrino Physics, Tegernsee, Ringberg Castle, Germany, 24-29 May 1998.*

19. N.V. Mikheev, G.G. Raffelt and L.A. Vassilevskaya, "Axion emission by magnetic-field induced conversion of longitudinal plasmons", Phys. Rev. **D58**, 055008 (1998) [arXiv:hep-ph/9803486].

20. N.V. Mikheev, A.Y. Parkhomenko and L.A. Vassilevskaya, "Field-induced axion decay $a \to e^+e^-$ via plasmon", Nucl. Phys. Proc. Suppl. **72**, 58 (1999) [arXiv:hep-ph/9812408].

21. N.V. Mikheev, O.S. Ovchinnikov and L.A. Vassilevskaya, "$a \to e^+e^-$ decay in a model with induced coupling to leptons", Mod. Phys. Lett. **A13**, 321 (1998) [arXiv:hep-ph/9801402].

22. L.A. Vassilevskaya, N.V. Mikheev and O.S. Ovchinnikov, "Effect of a magnetic field on the axion lifetime", Phys. Atom. Nucl. **61**, 624 (1998) [Yad. Fiz. **61**, 697 (1998)].

23. L.A. Vassilevskaya, N.V. Mikheev and O.S. Ovchinnikov, "Neutrino decay of a pseudoscalar particle in a magnetic field", Phys. Atom. Nucl. **61**, 1551 (1998) [Yad. Fiz. **61**, 1663 (1998)].

24. A.V. Kuznetsov, N.V. Mikheev and L.A. Vassilevskaya, "Photon splitting $\gamma \to \nu\bar{\nu}$ in an external magnetic field", Phys. Lett. **B427**, 105 (1998) [Erratum-ibid. **B438**, 449 (1998)] [arXiv:hep-ph/9712289].

25. N.V. Mikheev, O.S. Ovchinnikov and L.A. Vassilevskaya, "Field-induced axion decay $a \to e^+e^-$ in KSVZ-model", *Prepared for the 1st International Workshop on Particle Physics and the Early Universe*, Ambleside, England, 15–19 Sep. 1997, arXiv:hep-ph/9712423.

26. N.V. Mikheev and L.A. Vassilevskaya, "Effect of external electromagnetic fields on axion decays", Phys. Atom. Nucl. **61**, 1041 (1998) [Yad. Fiz. **61**, 1135 (1998)] [arXiv:hep-ph/9708293].

27. A.A. Gvozdev, A.V. Kuznetsov, N.V. Mikheev and L.A. Vassilevskaya, "Neutrino transitions $\nu \to \nu\gamma$ and $\nu \to \nu e^+ e^-$ in a strong magnetic field as a possible origin of the cosmological gamma burst", Phys. Atom. Nucl. **61**, 1031 (1998) [Yad. Fiz. **61**, 1125 (1998)] [arXiv:hep-ph/9710219].

28. A.A. Gvozdev, A.V. Kuznetsov, N.V. Mikheev and L.A. Vassilevskaya, "Creation of photons and electron positron pairs by a neutrino in a strong magnetic field", *Prepared for the International School on Particles and Cosmology (Baksan 97)*, Baksan, Russia, 15–22 Apr. 1997, arXiv:hep-ph/9709268.

29. A.A. Gvozdev, N.V. Mikheev and L.A. Vassilevskaya, "Radiative transition of massless neutrino in strong magnetic field", *Prepared for the International Conference 32nd Rencontres de Moriond: Electroweak Interactions and Unified Theories*, Les Arcs, France, 15–22 Mar. 1997, arXiv:hep-ph/9709218.

30. A.A. Gvozdev, N.V. Mikheev and L.A. Vassilevskaya, "Resonance neutrino bremsstrahlung $\nu \to \nu\gamma$ in a strong magnetic field", Phys. Lett. **B410**, 211 (1997) [arXiv:hep-ph/9702285].

31. N.V. Mikheev and L.A. Vassilevskaya, "Electromagnetic catalysis of the radiative decay of the axion", Phys. Lett. **B410**, 207 (1997) [arXiv:hep-ph/9702284].

32. N.V. Mikheev and L.A. Vassilevskaya, "Axion decay $a \to f\tilde{f}$ in a strong magnetic field", Phys. Lett. **B410**, 203 (1997) [arXiv:hep-ph/9702326].

33. L.A. Vassilevskaya, M.L. Zilberman and N.V. Mikheev, "Vector-leptoquark contribution to radiative massive-neutrino decay in a crossed field", Phys. Atom. Nucl. **60**, 964 (1997) [Yad. Fiz. **60**, 1078 (1997)].

34. L.A. Vassilevskaya, N.V. Mikheev and A.Y. Parkhomenko, "A gamma gamma vertex in a crossed external field", Phys. Atom. Nucl. **60**, 2041 (1997) [Yad. Fiz. **60**, 2224 (1997)].

35. A.A. Gvozdev, N.V. Mikheev and L.A. Vassilevskaya, "The radiative decay of the massive neutrino in the external electromagnetic fields", Phys. Rev. **D54**, 5674 (1996) [arXiv:hep-ph/9610219].

36. N.V. Mikheev, M.L. Zilberman and L.A. Vassilevskaya, "Neutrino radiative decay in an external electromagnetic field via vector leptoquark", Phys. Lett. **B390**, 227 (1997) [arXiv:hep-ph/9610253].

37. N.V. Mikheev and L.A. Vassilevskaya, "Electromagnetic catalysis of the radiative decay of the axion", *Prepared for 9th International Seminar on High-energy Physics: Quarks 96*, Yaroslavl, Russia, 5–11 May 1996.

38. N.V. Mikheev and L.A. Vassilevskaya, "Electromagnetic catalysis of the radiative decay of the axion", *Prepared for 9th International Seminar on High-energy Physics: Quarks 96*, Yaroslavl, Russia, 5–11 May 1996.

39. A.A. Gvozdev, N.V. Mikheev and L.A. Vassilevskaya, "Neutrino innerbremsstrahlung in a strong magnetic field", *Prepared for 9th International Seminar on High-energy Physics: Quarks 96*, Yaroslavl, Russia, 5–11 May 1996.

40. A.A. Gvozdev, A.V. Kuznetsov, N.V. Mikheev and L.A. Vassilevskaya, "Three types of fermion mixing and possible manifestations of a Pati-Salam leptoquark in the low-energy processes", *Prepared for the International Conference 30nd Rencontres de Moriond: Electroweak Interactions and Unified Theories*, Les Arcs, France, 11–18 Mar. 1995, arXiv: hep-ph/9505229.

41. A.A. Gvozdev, N.V. Mikheev and L.A. Vassilevskaya, "Electromagnetic catalysis of a neutrino radiative decay or one more source of information on the lepton mixing angles?", *Prepared for the International Conference 30nd Rencontres de Moriond: Electroweak Interactions and Unified Theories*, Les Arcs, France, 11–18 Mar. 1995, arXiv:hep-ph/ 9506429.

42. A.A. Gvozdev, N.V. Mikheev and L.A. Vassilevskaya, "Unitarity limit on $K_0(L) \to \mu^+\mu^-$ and the top mass", *Prepared for the 9th International Conference Les Rencontres de Physique de la Vallee d'Aoste: Results and Perspectives in Particle Physics*, La Thuile, Italy, 5–11 Mar. 1995, arXiv:hep-ph/9511366.

43. L.A. Vassilevskaya, A.A. Gvozdev and N.V. Mikheev, "Radiative transition of a massive neutrino in the field of an intense electromagnetic wave", Phys. Atom. Nucl. **58**, 654 (1995) [Yad. Fiz. **58**, 712 (1995)].

44. L.A. Vassilevskaya, A.A. Gvozdev, A.V. Kuznetsov and N.V. Mikheev, "Muon decays with nonconservation of lepton number in the model with minimal quark–lepton symmetry $SU(4)_V \times SU(2)_L \times G(R)$", Phys. Atom. Nucl. **58**, 1571 (1995) [Yad. Fiz. **58**, 1667 (1995)].

45. A.A. Gvozdev, A.V. Kuznetsov, N.V. Mikheev and L.A. Vassilevskaya, "Muon decays with lepton number violation via vector leptoquark", Phys. Lett. **B345**, 490 (1995) [arXiv:hep-ph/9411278].

46. A.A. Gvozdev, N.V. Mikheev and L.A. Vassilevskaya, "The electromagnetic catalysis of the neutrino radiative decay", *Prepared for the 8th International Seminar on High-energy Physics: Quarks 94*, Vladimir, Russia, 11–18 May 1996, arXiv:hep-ph/9409363.

47. A.A. Gvozdev, N.V. Mikheev and L.A. Vassilevskaya, "Rare electroweak processes $K_0(L) \to \mu^+\mu^-$ and $K_0(L) \to \gamma\gamma$ and heavy top quark", *Prepared for the 5th Conference on the Intersections of Particle Physics and Nuclear Physics*, St. Petersburg, Florida, USA, 31 May – 6 Jun. 1994, arXiv:hep-ph/9409450.

48. A.A. Gvozdev, N.V. Mikheev and L.A. Vassilevskaya, "One more source of information on the lepton mixing angles", *Prepared for the 8th International Seminar on High-energy Physics: Quarks 94*, Vladimir, Russia, 11–18 May 1996, arXiv:hep-ph/9409447.

49. L.A. Vassilevskaya, A.A. Gvozdev and N.V. Mikheev, "Massive neutrino decay $\nu_i \to \nu_j\gamma$ in a crossed field", Phys. Atom. Nucl. **57**, 117 (1994) [Yad. Fiz. **57**, 124 (1994)].

50. A.A. Gvozdev, N.V. Mikheev, L.A. Vassilevskaya and K.A. Ter-Martirosian, "Neutrino radiation enhancement in strong external fields", *Prepared for the 8th Les Rencontres de Physique de la Vallee d'Aoste: Results and Perspectives in Particle Physics*, La Thuile, Italy, 6–12 Mar. 1994.

51. A.A. Gvozdev, N.V. Mikheev and L.A. Vassilevskaya, "The radiative decay of a high-energy neutrino in the Coulomb field of a nucleus", Phys. Lett. **B323**, 179 (1994) [arXiv:hep-ph/9404289].

52. A.A. Gvozdev, N.V. Mikheev and L.A. Vassilevskaya, "The radiative decay of a high-energy neutrino in the Coulomb field of a nucleus", Phys. Lett. **B323**, 179 (1994) [arXiv:hep-ph/9404289].

53. A.A. Gvozdev, N.V. Mikheev and L.A. Vassilevskaya, "Electromagnetic catalysis of the radiative transitions of $\nu_i \to \nu_j\gamma$ type in the field of an intense monochromatic wave", Phys. Lett. **B321**, 108 (1994) [arXiv:hep-ph/9404290].

54. A.A. Gvozdev, N.V. Mikheev and L.A. Vassilevskaya, "The radiative decay $\nu_i \to \nu_j\gamma$ $(i \neq j)$ of a massive neutrino in the field of an intensive electromagnetic wave", Phys. Lett. **B313**, 161 (1993).

55. A.A. Gvozdev, N.V. Mikheev and L.A. Vassilevskaya, "The electroweak $K_0(L) \to \mu^+\mu^-$ process as a probe of the top quark mass", Phys. Lett. **B274**, 205 (1992).

56. A.A. Gvozdev, N.V. Mikheev and L.A. Vassilevskaya, "The magnetic catalysis of the radiative decay of a massive neutrino in the standard model with lepton mixing", Phys. Lett. **B289**, 103 (1992).

57. L.A. Vassilevskaya, A.A. Gvozdev and N.V. Mikheev, "Amplitude for the Compton-like process $f_i\gamma \to f_j\gamma$ in the Weinberg-Salam model with mixing", Sov. J. Nucl. Phys. **55**, 579 (1992) [Yad. Fiz. **55**, 1029 (1992)].

58. A.A. Gvozdev, N.V. Mikheev and L.A. Vassilevskaya, "Off diagonal electroweak transition $f_i \to f_j\gamma^*\gamma^*$ with virtual photons in the standard theory with fermion mixing", Phys. Lett. **B292**, 176 (1992).

59. L.A. Vassilevskaya, A.A. Gvozdev and N.V. Mikheev, "$\mu \to e\gamma\gamma$ type processes with lepton number violation in the standard model with lepton mixing", Phys. Lett. **B267**, 121 (1991).

60. A.V. Borisov, I.M. Ternov and L.A. Vassilevskaya, "Transitions of $\nu_i \leftrightarrow \nu_j$ $(i \neq j)$ type in an external field", Phys. Lett. **B273**, 163 (1991).

61. L.A. Vassilevskaya, A.A. Gvozdev and N.V. Mikheev, "Rare decays $K_0(L) \to \mu^+\mu^-$ and $K_0(L) \to 2\gamma$ in the quark approach and the mass of the t quark", Sov. J. Nucl. Phys. **53**, 1030 (1991) [Yad. Fiz. **53**, 1682 (1991)].

62. A.V. Averin, A.V. Borisov, L.A. Vassilevskaya and I.M. Ternov, "Transitions of the type $\mu \leftrightarrow e$ in the field of a circularly polarized wave", Sov. J. Nucl. Phys. **54**, 645 (1991) [Yad. Fiz. **54**, 1066 (1991)].

63. A.V. Borisov, L.A. Vassilevskaya and I.M. Ternov, "Flavor-nondiagonal transitions of massive neutrinos in an external field", Sov. J. Nucl. Phys. **54**, 845 (1991) [Yad. Fiz. **54**, 1384 (1991)].

64. L.A. Vassilevskaya, A.A. Gvozdev and N.V. Mikheev, "Double radiation processes with lepton-number breaking in the Weinberg-Salam model with lepton mixing", Sov. J. Nucl. Phys. **51**, 118 (1990) [Yad. Fiz. **51**, 186 (1990)].

65. L.A. Vassilevskaya, A.A. Gvozdev and N.V. Mikheev, "Estimate of t quark mass from the decay $K_0(L) \to \mu^+\mu^-$", JETP Lett. **51**, 500 (1990) [Pisma Zh. Eksp. Teor. Fiz. **51**, 443 (1990)].