

# Владимир Ильич Белявский



(13.04.1945 – 15.01.2016)

Владимир Ильич Белявский был известен как специалист по физике дефектных и низкоразмерных полупроводников, а с 1990х годов занимался также проблемами высокотемпературной сверхпроводимости. После окончания Воронежского политехнического института он занимался теорией дислокационного внутреннего трения в металлах (кандидатская диссертация 1971 г.), и в дальнейшем неоднократно возвращался к металлическим системам – аморфным сплавам. Владимир Ильич работал в Воронежском государственном педагогическом институте, где в период с 1984 до 2010 г. заведовал кафедрой общей физики. Совместно с С.Т. Павловым подготовил учебное пособие «Поглощение и рассеяние света в полупроводниках». Параллельно он работал в ФИАН, совместно с сотрудниками которого опубликовал большое число статей (ближайшим соавтором Владимира Ильича был Юрий Васильевич Копаев).

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## Избранные статьи

1. BELYAVSKII, VI; DARINSKII, VM.  
INTERNAL-FRICTION CAUSED BY DIFFUSION OF ADMIXTURE ATOMS ALONG DISLOCATIONS  
IZVESTIYA VYSSHIKH UCHEBNYKH ZAVEDENII FIZIKA (9), 102 (1972)

2. POSTNIKOV, VS; BELIKOV, AM; BELYAVSKII, VI; YUREV, VA.  
ANISOTROPY OF DISLOCATION INTERNAL-FRICTION IN COPPER WHISKERS  
PHYSICA STATUS SOLIDI A-APPLIED RESEARCH 14(1), 305 (1972)
3. BELYAVSKII, VI.  
PHOTO-IONIZATION CROSS-SECTION OF DEEP IMPURITY CENTERS IN SEMICONDUCTORS WITH HIGHLY ANISOTROPIC BANDS  
SOVIET PHYSICS SEMICONDUCTORS-USSR 11(10), 1130 (1977)
4. BELYAVSKII, VI; SHALIMOV, VV.  
PHOTO-IONIZATION OF DEEP IMPURITIES IN SEMICONDUCTORS  
SOVIET PHYSICS SEMICONDUCTORS-USSR 11(8), 884 (1977)
5. POSTNIKOV, V.S.; OLEMSKOI, A.I.; BELYAVSKII, V.I..  
DISPERSION OF METALLIC ALLOYS  
FIZIKA I KHIMIYA OBRABOTKI MATERIALOV (1), 89 (1978)
6. BELYAVSKII, V.I..  
OPTICAL ABSORPTION BY IMPURITIES IN A SEMICONDUCTOR WITH A SUPERLATTICE  
SOVIET PHYSICS - SOLID STATE 20(9), 1630 (1978)
7. BELYAVSKII, VI; SHALIMOV, VV.  
ELECTRON-STATES OF POINT-DEFECTS IN SEMICONDUCTORS  
SOVIET PHYSICS SEMICONDUCTORS-USSR 13(7), 798 (1979)
8. BELYAVSKII, V.I.; DARINSKII, B.M.; SHALIMOV, V.V..  
INFLUENCE OF BOUND ELECTRON STATES ON THE MOBILITY OF DISLOCATION KINKS IN SEMICONDUCTORS  
SOVIET PHYSICS - SOLID STATE 23(1), 187 (1981)
9. BELYAVSKII, VI; SVIRIDOV, VV.  
LIFETIME OF AN ELECTRON STATE FORMED BY A SMALL-RADIUS POTENTIAL WELL AND A REPULSIVE COULOMB POTENTIAL  
SOVIET PHYSICS SEMICONDUCTORS-USSR 15(5), 562-563 (1981)
10. DUBROVSKII, GB; BELYAVSKII, VI.  
SELECTION-RULES AND ABSORPTION LINESHAPES FOR ELECTRON TRANSITIONS BETWEEN MINI-ZONES IN A SUPER-LATTICE  
PHYSICA STATUS SOLIDI B-BASIC RESEARCH 103(1), 131-137 (1981)
11. BELYAVSKII, VI; DARINSKII, BM; SHALIMOV, VV.  
A THEORY OF THE DISLOCATION MOBILITY IN DOPED SEMICONDUCTORS  
FIZIKA TVERDOGO TELA 24(2), 511-516 (1982)
12. BELYAVSKII, VI.  
SECONDARY RADIATION FROM DOPED POLAR SEMICONDUCTORS  
IZVESTIYA VYSSHIKH UCHEBNYKH ZAVEDENII FIZIKA 25(3), 89-93 (1982)
13. ANTIPOV, SA; BELYAVSKII, VI; DROZHIN, AI.  
DISLOCATION INTERNAL-FRICTION IN SILICON WHISKERS  
FIZIKA TVERDOGO TELA 24(11), 3268-3272 (1982)
14. BELYAVSKII, VI; SVIRIDOV, VV.  
RAMAN LIGHT-SCATTERING IN SEMICONDUCTORS WITH DISLOCATIONS  
FIZIKA TVERDOGO TELA 24(11), 3490-3492 (1982)
15. BELYAVSKII, VI; SVIRIDON, VV.  
OPTICAL-ABSORPTION IN SEMICONDUCTORS WITH DISLOCATIONS  
FIZIKA TVERDOGO TELA 24(6), 1654-1660 (1982)

16. ZOLOTUKHIN, IV; BELYAVSKII, VI; KHONIK, VA.  
ELASTIC AND ANHARMONIC PHENOMENA RELATION IN METALLIC GLASSES  
FIZIKA TVERDOGO TELA 25(10), 3176-3179 (1983)
17. BELYAVSKII, VI; KONDAUROV, VP; KOROLEV, IA.  
RECOMBINATION OF NON-EQUILIBRIUM CARRIERS IN THE CASE OF EXCITON PHONON INTERACTION IN SEMICONDUCTORS WITH DISLOCATIONS  
SOVIET PHYSICS SEMICONDUCTORS-USSR 17(6), 715-716 (1983)
18. ZOLOTUKHIN, IV; BELYAVSKII, VI; KHONIK, VA.  
RELAXATION PHENOMENA IN PLASTICALLY DEFORMED AMORPHOUS ALLOY PD77.5CU6SI16.5  
FIZIKA TVERDOGO TELA 27(6), 1788-1794 (1985)
19. BELYAVSKII, VI; DOKRINSKII, BM; SVIRIDOV, VV.  
ELECTRON-STIMULATED DISLOCATION MOBILITY IN SEMICONDUCTORS WITH HIGH PEIERLS BARRIERS  
FIZIKA TVERDOGO TELA 27(4), 1088-1092 (1985)
20. BELYAVSKII, VI; KONDAUROV, VP; KOROLEV, IA.  
DARK LINES IN SEMICONDUCTOR LIGHT-EMITTING DEVICES  
SOVIET PHYSICS SEMICONDUCTORS-USSR 19(11), 1253-1256 (1985)
21. BELYAVSKII, VI; ORLOV, AN; SHRETER, YG.  
ATOMIC-STRUCTURE AND ELECTRONIC-SPECTRUM OF LOW-ANGULAR BOUNDARIES OF GERMANIUM BICRYSTALS TILT-(110)  
IZVESTIYA AKADEMII NAUK SSSR SERIYA FIZICHESKAYA 51(4), 774-779 (1987)
22. ZOLOTUKHIN, I.; BELYAVSKII, V.I.; KHONIK, V.A.; SAFANOV, I.A.; RYABTSEVA, T.N..  
EFFECT OF ELECTRON IRRADIATION ON INTERNAL FRICTION AND MODULUS OF ELASTICITY OF PLASTICALLY DEFORMED AMORPHOUS NI78SI8B14 ALLOY  
METALLOFIZIKA 10(5), 99 (1988)
23. BELYAVSKII, V.I.; KHONIK, V.A.; RYABTSEVA, T.N..  
LOW TEMPERATURE ELASTIC AND INELASTIC PROPERTIES OF PLASTICALLY DEFORMED AMORPHOUS ALLOYS CU50TI50  
METALLOFIZIKA 11(3), 106 (1989)
24. ZOLOTUKHIN, IV; BELYAVSKIY, VI; KHONIK, VA; RYABTSEVA, TN.  
INTERNAL-FRICTION IN COLD-WORKED NI70SI8B14 AMORPHOUS ALLOY  
FIZIKA METALLOV I METALLOVEDENIE 68(1), 185-191 (1989)
25. ZOLOTUKHIN, IV; BELYAVSKII, VI; KHONIK, VA; RYABTSEVA, TN.  
INTERNAL-FRICTION IN COLD-ROLLED METALLIC GLASSES CU50TI50 AND NI78SI8B14  
PHYSICA STATUS SOLIDI A-APPLIED RESEARCH 116(1), 255-265 (1989)
26. BELYAVSKII, VI; KAPUSTIN, YA; SVIRIDOV, VV.  
SUBTHRESHOLD DEFECT FORMATION AS A RESULT OF PULSED PHOTON TREATMENT OF SILICON  
SOVIET PHYSICS SEMICONDUCTORS-USSR 25(7), 727-729 (1991)
27. BELYAVSKII, VI; PAVLOV, ST; POMERANTSEV, YA.  
INTERACTION OF ELEMENTARY DISLOCATION EXCITATIONS IN SEMICONDUCTORS  
FIZIKA TVERDOGO TELA 33(8), 2423-2431 (1991)
28. BELYAVSKII, VI; KAPUSTIN, YA; SVIRIDOV, VV.  
INTERPRETATION OF TRANSIENT CAPACITANCE SPECTRA OF A-CENTERS FORMED BY PULSED PHOTON BOMBARDMENT OF SILICON  
SOVIET PHYSICS SEMICONDUCTORS-USSR 26(10), 1028-1029 (1992)
29. BELYAVSKY, VI; KAPUSTIN, YA.  
ON THE NATURE OF LOW-TEMPERATURE INTERNAL-FRICTION IN DEFORMED SILICON SURFACE-LAYERS  
IZVESTIYA AKADEMII NAUK SERIYA FIZICHESKAYA 57(11), 50-53 (1993)

30. BELYAVSKII, VI; KAPUSTIN, YA; KOLOKOLNIKOVA, GK.  
DEEP-LEVEL DEFECTS WHICH FORM DURING MECHANICAL SURFACE PROCESSING AND PULSED PHOTON PROCESSING OF SILICON  
SEMICONDUCTORS 28(11), 1051-1055 (1994)
31. BELYAVSKII, VI; KOPAIEV, YV; PAVLOV, ST; SHEVTSOV, SV.  
INTERFERENCE EXCITON-STATES IN SYSTEMS OF QUANTUM-WELLS  
JETP LETTERS 61(4), 292-297 (1995)
32. BELYAVSKY, VI; KOPAIEV, YV; SHEVTSOV, SV.  
WANNIER EXCITONS IN ASYMMETRICAL QUANTUM-WELL STRUCTURES  
SOLID STATE COMMUNICATIONS 94(9), 715-718 (1995)
33. BELYAVSKII, VI; SHEVTSOV, SV; KOPAIEV, YV; KORNIAKOV, NV.  
CHANGE IN THE IONIZATION-ENERGY OF IMPURITIES AS A RESULT OF WAVE-FUNCTION RELOCATION IN A SYSTEM OF QUANTUM-WELLS  
JETP LETTERS 61(12), 1039-1045 (1995)
34. BELYAVSKII, VI; SVIRIDOV, VV.  
RECOMBINATION OF CARRIERS ON MOVABLE DEFECTS IN SEMICONDUCTORS  
FIZIKA TVERDOGO TELA 37(6), 1826-1837 (1995)
35. BELYAVSKII, VI; POMERANTSEV, YA; SHEVTSOV, SV; KOPAIEV, YV.  
DEEP ACCEPTOR STATES IN ASYMMETRIC QUANTUM-WELL SYSTEMS IN AN ELECTRIC-FIELD  
JETP LETTERS 62(3), 208-214 (1995)
36. BELYAVSKII, VI; KOPAIEV, YV; PAVLOV, ST; SHEVTSOV, SV.  
WANNIER EXCITONS IN PLANAR HETEROSTRUCTURES WITH QUANTUM HOLES  
FIZIKA TVERDOGO TELA 37(10), 3147-3168 (1995)
37. BELYAVSKII, VI; BOBROV, OP; KOSILOV, AT; KHONIK, VA.  
DIRECTED STRUCTURAL RELAXATION AND LOW-FREQUENCY INNER FRICTION OF QUICK-HARDENED METAL GLASSES  
FIZIKA TVERDOGO TELA 38(1), 30-40 (1996)
38. BELYAVSKII, V.I.; KOPAIEV, YU.V.; SHEVTSOV, S.V.; ZAVARZIN, A.N..  
METASTABLE STATES OF HOLE PAIRS IN SEMICONDUCTOR QUANTUM WELLS  
JOURNAL OF EXPERIMENTAL AND THEORETICAL PHYSICS 82(6), 1175 (1996)
39. BELYAVSKY, VI; BOBROV, OP; KHONIK, VA; KOSILOV, AT.  
LOW FREQUENCY INTERNAL FRICTION INDUCED BY STRUCTURAL RELAXATION OF METALLIC GLASSES  
JOURNAL DE PHYSIQUE IV 6(C8), 715-718 (1996)
40. V.I. BELYAVSKII, YU.V. KOPAIEV, N.V. KORNIAKOV [“CONTROLLED MODULATION OF THE BINDING ENERGY OF IMPURITY STATES IN A QUANTUM-WELL SYSTEM.”](#)PHYSICS-USPEKHI 39 415–416 (1996)
41. BELYAVSKY, VI; KOPAIEV, YV; POMERANTSEV, YA.  
RESISTANCE OF BIASED QUANTUM WELL SYSTEMS  
PHYSICS OF LOW-DIMENSIONAL STRUCTURES 1-2, 1-9 (1997)
42. BELYAVSKII, VI; GOLDFARB, MV; SHEVTSOV, SV; KOPAIEV, YV.  
BINDING ENERGY OF SHALLOW DONORS IN ASYMMETRICAL SYSTEMS OF QUANTUM WELLS  
SEMICONDUCTORS 31(3), 246-251 (1997)
43. BELYAVSKII, VI; GOLDFARB, MV; KOPAIEV, YV.  
BINDING ENERGY OF COULOMB ACCEPTORS IN QUANTUM-WELL SYSTEMS  
SEMICONDUCTORS 31(9), 936-940 (1997)
44. BELYAVSKII VI.EXCITONS IN LOW-DIMENSIONAL SYSTEMS  
SOROSOV OBRAZOVAT ZH , 92-99 (1998)

45. BELYAVSKY, VI; KOPAEV, YV; KORNIAKOV, NV; POMERANTSEV, YA; SHEVTSOV, SV.  
DEEP IMPURITY STATES IN SEMICONDUCTOR QUANTUM WELL STRUCTURES  
SEMICONDUCTOR SCIENCE AND TECHNOLOGY 13(5), 460-467 (1998)
46. BELYAVSKII, VI; SHEVTSOV, SV; KOPAEV, YV.  
SYSTEM OF QUANTUM WELLS IN A PARALLEL MAGNETIC FIELD  
PHYSICS OF THE SOLID STATE 40(9), 1563-1567 (1998)
47. BELYAVSKY, VI; CSACH, K; KHONIK, VA; MIKHAILOV, VA; OCELIK, V.  
ISOTHERMAL STRAIN RECOVERY AS A RESULT OF REVERSIBLE STRUCTURAL RELAXATION OF METALLIC  
GLASSES  
JOURNAL OF NON-CRYSTALLINE SOLIDS 241(2-3), 105-112 (1998)
48. BELYAVSKII, VI; POMERANTSEV, YA.  
PHOTOIONIZATION OF DEEP IMPURITY CENTERS IN QUANTUM WELL STRUCTURES  
SEMICONDUCTORS 33(4), 435-439 (1999)
49. BELYAVSKII, VI; KOPAEV, YV.  
COEXISTENCE OF THE SUPERCONDUCTING CONDENSATE AND THE QUASI-STATIONARY STATES OF  
HOLE PAIRS  
JETP LETTERS 72(10), 511-515 (2000)
50. BELYAVSKII, VI; KAPAEV, VV; KOPAEV, YV.  
COULOMB PAIRING OF LIKE-CHARGED PARTICLES WITH NEGATIVE EFFECTIVE MASS IN HIGH-  
TEMPERATURE SUPERCONDUCTORS  
JOURNAL OF EXPERIMENTAL AND THEORETICAL PHYSICS 91(4), 817-831 (2000)
51. BELYAVSKY, VI; KAPAEV, VV; KOPAEV, YV.  
COULOMB COUPLING OF LIKE CHARGES DUE TO NEGATIVE REDUCED EFFECTIVE MASS  
PHYSICA C 341, 185-186 (2000)
52. BELYAVSKY, VI; KONCHAKOV, RA.  
HYPERBOLIC EXCITONS IN SEMICONDUCTORS  
PHYSICS OF THE SOLID STATE 43(9), 1621-1625 (2001)
53. BELYAVSKII, VI; KOPAEV, YV.  
COULOMB REPULSION-INDUCED HYPERBOLIC PAIRING AS A MECHANISM OF HIGH-T-C  
SUPERCONDUCTIVITY  
JETP LETTERS 73(2), 82-86 (2001)
54. BELYAVSKY, VI; KOPAEV, YV.  
HYPERBOLIC PAIRING AND STRIPES IN HIGH-TEMPERATURE SUPERCONDUCTORS  
PHYSICS LETTERS A 287(1-2), 152-160 (2001)
55. BELYAVSKY, VI; KAPAEV, VV; KOPAEV, YV.  
COEXISTENCE OF QUASISTATIONARY STATES AND A CONDENSATE OF HOLE PAIRS  
PHYSICA C 364, 47-49 (2001)
56. BELYAVSKY, VI; KAPAEV, VV; KOPAEV, YV.  
MIRROR NESTING: A SUPERCONDUCTING PAIRING OF CARRIERS WITH A LARGE MOMENTUM  
JETP LETTERS 76(1), 44-49 (2002)
57. BELYAVSKY, VI; KOPAEV, YV.  
THE "PAIR" FERMI CONTOUR AND HIGH-TEMPERATURE SUPERCONDUCTIVITY  
JOURNAL OF EXPERIMENTAL AND THEORETICAL PHYSICS 94(1), 149-161 (2002)
58. BELYAVSKII, VI; SHEVTSOV, SV.  
INHOMOGENEOUS BROADENING OF THE GROUND ELECTRON LEVEL IN A QUANTUM DOT ARRAY  
SEMICONDUCTORS 36(7), 821-827 (2002)

59. BELYAVSKY, VI; KOPAEV, YV.  
PAIR FERMI CONTOUR AND REPULSION-INDUCED SUPERCONDUCTIVITY IN CUPRATES  
PHYSICAL REVIEW B 67(2), - (2003)
60. BELYAVSKY, VI; KOPAEV, YV; SOFRONOV, VM; SHEVTSOV, SV.  
MIRROR NESTING OF THE FERMI CONTOUR AND ZERO LINE OF THE SUPERCONDUCTING ORDER  
PARAMETER  
JOURNAL OF EXPERIMENTAL AND THEORETICAL PHYSICS 97(5), 1032-1052 (2003)
61. BELYAVSKY, VI; KAPAEV, VV; KOPAEV, YV.  
MIRROR NESTING AND HIGH T-C SUPERCONDUCTIVITY  
INTERNATIONAL JOURNAL OF MODERN PHYSICS B 17(18-20), 3262-3265 (2003)
62. LEVIN, MN; BELYAVSKY, VI; POSTNIKOV, VV; DOLGOPOLOVA, EA; DRONOV, AA.  
EFFECT OF PULSED MAGNETIC FIELD ON YBCO CERAMICS  
FERROELECTRICS 307, 161-166 (2004)
63. BELYAVSKII, VI; KOPAEV, YV; TOGUSHOVA, YN; SHEVTSOV, SV.  
THE PSEUDOGAP MODE AS LONG-LIVED STATES OF NONCOHERENT PAIRS WITH LARGE MOMENTA  
JOURNAL OF EXPERIMENTAL AND THEORETICAL PHYSICS 99(3), 585-601 (2004)
64. BELYAVSKY, VI; KOPAEV, YV.  
MIRROR NESTING AND SUPERCONDUCTING PAIRING  
PHYSICS LETTERS A 322(3-4), 244-249 (2004)
65. BELYAVSKY, VI; KOPAEV, YV; SHEVTSOV, SV.  
MIRROR NESTING OF THE FERMI CONTOUR AND SUPERCONDUCTING PAIRING FROM THE REPULSIVE  
INTERACTION  
JOURNAL OF SUPERCONDUCTIVITY 17(2), 303-315 (2004)
66. BELYAVSKY, VI; KAPAEV, VV; KOPAEV, YV.  
MIRROR NESTING AND REPULSION-INDUCED SUPERCONDUCTIVITY  
PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS 408, 230-231 (2004)
67. BELYAVSKY, VI; LEVIN, MN.  
SPIN EFFECTS IN DEFECT REACTIONS  
PHYSICAL REVIEW B 70(10), - (2004)
68. BELYAVSKY, VI; KAPAEV, VV; KOPAEV, YV.  
TOPOLOGY OF THE FERMI SURFACE AND THE COEXISTENCE OF ORBITAL ANTIFERROMAGNETISM AND  
SUPERCONDUCTIVITY IN CUPRATES  
JETP LETTERS 81(10), 527-532 (2005)
69. BELYAVSKY, VI; KOPAEV, YV.  
MACROSCOPIC DESCRIPTION OF SUPERCONDUCTING PAIRING UNDER REPULSIVE INTERACTION  
JOURNAL OF EXPERIMENTAL AND THEORETICAL PHYSICS 100(1), 39-49 (2005)
70. BELYAVSKY, VI; KOPAEV, YV; SMIRNOV, MY.  
TETRACRITICAL POINT AND STAGGERED VORTEX CURRENTS IN SUPERCONDUCTING STATE  
JOURNAL OF EXPERIMENTAL AND THEORETICAL PHYSICS 101(3), 452-467 (2005)
71. BELYAVSKY, VI; KOPAEV, YV; TOGUSHOVA, YN.  
SUPERCONDUCTING PAIRING FROM REPULSION: CONTACT POTENTIAL APPROXIMATION  
PHYSICS LETTERS A 338(1), 69-73 (2005)
72. BELYAVSKY, VI; KOPAEV, YV; NGUYEN, NT; TOGUSHOVA, YN.  
CROSSOVER FROM PHONON-MEDIATED TO REPULSION-INDUCED SUPERCONDUCTING PAIRING WITH  
LARGE MOMENTUM  
PHYSICS LETTERS A 342(3), 267-271 (2005)

73. BELYAVSKY, VI; KOPAEV, YV; SMIRNOV, MY.  
INTERPLAY OF THE SUPERCONDUCTING STATE AND ORBITAL ANTIFERROMAGNETIC STATE OF THE  
HIGH-TEMPERATURE CUPRATE SUPERCONDUCTORS  
PHYSICAL REVIEW B 72(13), - (2005)
74. BELYAVSKY, VI; LEVIN, MN; OLSON, NJ.  
DEFECT-INDUCED LATTICE MAGNETISM: PHENOMENOLOGY OF MAGNETIC-FIELD-STIMULATED DEFECT  
REACTIONS IN NONMAGNETIC SOLIDS  
PHYSICAL REVIEW B 73(5), (2006)
75. BELYAVSKY, VI; KOPAEV, YV.  
SUPERCONDUCTIVITY OF REPULSIVE PARTICLES  
PHYSICS-USPEKHI 49(5), 441-467 (2006)
76. BELYAVSKY, VI; KOPAEV, YV.  
SUPERCONDUCTIVITY IN HOMOLOGOUS SERIES OF CUPRATES: DEEP OSCILLATIONS OF THE PAIRING  
COULOMB POTENTIAL  
JETP LETTERS 83(11), 515-521 (2006)
77. BELYAVSKY, VI; IVANKOV, YV; LEVIN, MN.  
MAGNON MECHANISM OF DEFECT REACTIONS IN SOLIDS  
PHYSICS OF THE SOLID STATE 48(7), 1328-1333 (2006)
78. BELYAVSKY, VI; KOPAEV, YV.  
SUPERCONDUCTIVITY FROM REPULSION: GINZBURG-LANDAU PHENOMENOLOGY OF CUPRATES  
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM 19(3-5), 251-259 (2006)
79. BELYAVSKY, V.I.; KOPAEV, YU.V..  
GINZBURG-LANDAU EQUATIONS FOR HIGH-TEMPERATURE SUPERCONDUCTORS  
PHYSICS-USPEKHI 50(5), 540 (2007)
80. KOPAEV, YV; BELYAVSKY, VI; KOPAEV, YV; SMIRNOV, MY.  
MIRROR NESTING OF THE FERMI CONTOUR AND ENHANCED DIAMAGNETISM OF THE PSEUDOGAP  
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PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS 460, 1002-1003 (2007)
81. KOPAEV, YV; TOGUSHOVA, YN; NGUYEN, NT; BELYAVSKY, VI.  
ISOTOPE EFFECT IN CUPRATES: A COMPETITION BETWEEN COULOMB AND PHONON-MEDIATED  
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PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS 460, 261-262 (2007)
82. KOPAEV, YV; BELYAVSKY, VI.  
SUPERCONDUCTIVITY OF REPULSIVE CARRIERS  
PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS 460, 242-245 (2007)
83. BELYAVSKY, VI; KOPAEV, YV; KOPAEV, YV.  
MIRROR NESTING AND ELECTRON-HOLE ASYMMETRY AT REPULSIVE SUPERCONDUCTING PAIRING  
JETP LETTERS 86(6), 404-411 (2007)
84. BELYAVSKII, VI; KOPAEV, YV; TUAN, NN.  
DOUBLY ORDERED SUPERCONDUCTING STATE IN A DOPED ANTIFERROMAGNET  
JOURNAL OF EXPERIMENTAL AND THEORETICAL PHYSICS 105(4), 726-737 (2007) 23.
85. BELYAVSKY, VI; KOPAEV, YV.  
BIORDERED SUPERCONDUCTIVITY AND STRONG PSEUDOGAP STATE  
PHYSICAL REVIEW B 76(21), - (2007)
86. KOPAEV, YV; BELYAVSKY, VI; KOPAEV, YV.  
WITH CUPRATE LUGGAGE TO ROOM-TEMPERATURE SUPERCONDUCTIVITY  
PHYSICS-USPEKHI 51(2), 191-198 (2008)
87. BELYAVSKY, VI; KOPAEV, YV; TUAN, NN.  
SUPERCONDUCTIVITY IN CUPRATE HOMOLOGICAL SERIES: INTERLAYER DIELECTRIC COUPLING OF  
SUPERCONDUCTING PAIRS  
JETP LETTERS 87(10), 565-569 (2008)

88. BELYAVSKY, V; KOPAEV, YV; TOGUSHOVA, YN; TRAN, VL.  
DOPING-INDUCED SYMMETRY CHANGE OF SUPERCONDUCTING ORDER  
PHYSICS LETTERS A 372(19), 3501-3505 (2008)
89. KAPAEV, VV; KOPAEV, YV; BELYAVSKY, VI.  
INSULATING IN-PLANE MODULATION INDUCED SUPERCONDUCTIVITY OF HETEROSTRUCTURES  
PHYSICS LETTERS A 372(44), 6687-6689 (2008)
90. BELYAVSKY, VI; KOPAEV, YV; NGUYEN, NT; TRAN, VL.  
TOPOLOGY OF THE SUPERCONDUCTING ORDER UNDER PAIRING REPULSION  
JOURNAL OF EXPERIMENTAL AND THEORETICAL PHYSICS 108(2), 301-310 (2009)
91. BELYAVSKY, VI; KOPAEV, YV.  
PAIR-DENSITY-WAVE PSEUDOGAP AND SUPERCONDUCTING STATES IN CUPRATES  
PHYSICS LETTERS A 373(33), 2984-2987 (2009)
92. BELYAVSKY, VI; KAPAEV, VV; KOPAEV, YV.  
CHECKERBOARD SUPERCONDUCTING ORDER AND ANTINODAL BOGOLIUBOV QUASIPARTICLE  
INTERFERENCE  
PHYSICAL REVIEW B 80(21), - (2009)
93. FILATOVA, I; AZHARONOK, V; KADYROV, M; BELJAVSKY, V; GVOZDOV, A; SHIK, A; ANTONUK, A.  
THE EFFECT OF PLASMA TREATMENT OF SEEDS OF SOME GRAIN AND LEGUMES ON THEIR SOWING  
QUALITY AND PRODUCTIVITY  
ROMANIAN JOURNAL OF PHYSICS 56, 139-143 (2011)
94. KOPAEV, YV; GORBATSEVICH, AA; BELYAVSKII, VI.  
CHARGE AND SPIN TOPOLOGICAL INSULATORS  
CRYSTALLOGRAPHY REPORTS 56(5), 848-857 (2011)
95. BELYAVSKY, VI; KAPAEV, VV; KOPAEV, YV; MIKHAILYAN, DI.  
SYMMETRIZATION OF THE COULOMB PAIRING POTENTIAL BY ELECTRON-PHONON INTERACTION  
JOURNAL OF EXPERIMENTAL AND THEORETICAL PHYSICS 115(2), 263-272 (2012)
96. BELYAVSKY, VI; KAPAEV, VV; KOPAEV, YV.  
TOPOLOGICAL D-WAVE SUPERCONDUCTOR  
JETP LETTERS 96(11), 724-729 (2013)
97. KOPAEV, YV; KAPAEV, VV; BELYAVSKII, VI.  
CHARGE D-WAVE TOPOLOGICAL INSULATOR  
JOURNAL OF EXPERIMENTAL AND THEORETICAL PHYSICS 117(4), 718-727 (2013)
98. BELYAVSKII, VI; GORBATSEVICH, AA.  
ON THE THEORY OF PYRO- AND FERROELECTRICS: DIPOLE MOMENT DENSITY AND POLARIZATION  
JETP LETTERS 105(7), 464-472 (2017)