

Павлов Борис Сергеевич



(27 июля 1936 г. — 30 января 2016 г.)

Российский, советский и новозеландский математик. Профессор, доктор физико-математических наук. Профессор и заведующий кафедрой математики Оклендского университета в Новой Зеландии. Создатель научной школы по спектральной теории и комплексному анализу.

Борис Сергеевич Павлов родился в городе Кронштадт. В 1958 году окончил физический факультет ЛГУ (кафедра математической физики). В 1964 году защитил кандидатскую диссертацию по теме «Исследование спектра несамосопряженного оператора $-y'' + qy$ », научный руководитель М. Ш. Бирман. В 1974 году защитил докторскую диссертацию «Теория дилатаций и спектральный анализ несамосопряженных операторов». Являлся проректором по учебной и научной работе ЛГУ. С 1979 по 1983 — заведующий кафедрой математического анализа математико-механического факультета ЛГУ. Затем профессор кафедры высшей математики и математической физики физического факультета ЛГУ/СПбГУ. С 1995 заведующий межкафедральной лабораторией теории сложных систем физического факультета СПбГУ (с 2003 именуется лабораторией квантовых сетей). Первая премия Ленинградского государственного университета за цикл работ о теории несамосопряженных операторов (1984). Был членом редакционной коллегии журнала «Наносистемы: физика, химия, математика».

На физическом факультете ЛГУ/СПбГУ читал курсы «Математический анализ», «Методы математической физики», «Спектральная теория дифференциальных операторов».

В 1990-х гг. работал в Научном центре, возглавляемом лауреатом Нобелевской премии И. Р. Пригожиным (Центр по изучению сложных квантовых систем (англ. Center for Complex Quantum Systems) Остин, США).

С 2009 года сотрудничал с Исследовательским институтом в Massey University (Олбани, Новая Зеландия).

Борис Сергеевич Павлов автор более 100 публикаций.

Список основных публикаций:

Монографии:

Булдырев В. С., Павлов Б. С. Линейная алгебра и функции многих переменных. — Л.: Изд-во ЛГУ, 1985.

Статьи:

1. **PAVLOV, B; YAFYASOV, A.**
RESONANCE SCATTERING ACROSS THE SUPERLATTICE BARRIER AND THE DIMENSIONAL QUANTIZATION
NANOSYSTEMS-PHYSICS CHEMISTRY MATHEMATICS 7(5), 816-834 (2016)
2. **FLAMBAUM, VV; PAVLOV, BS.**
A POSSIBLE RESONANCE MECHANISM OF EARTHQUAKES
JOURNAL OF SEISMOLOGY 20(1), 385-392 (2016)
3. **FURSEY, G; KONOROV, P; PAVLOV, B; YAFYASOV, A.**
DIMENSIONAL QUANTIZATION AND THE RESONANCE CONCEPT OF THE LOW-THRESHOLD FIELD EMISSION
ELECTRONICS 4(4), 1101-1108 (2015)
4. **DANIELI, C; RAYANOV, K; PAVLOV, B; MARTIN, G; FLACH, S.**
APPROXIMATING METAL-INSULATOR TRANSITIONS
INTERNATIONAL JOURNAL OF MODERN PHYSICS B 29(6), - (2015)
5. **YAFYASOV, A; BOGEVOLNOV, V; TOMILOV, A; PAVLOV, B; FURSEY, G.**
MODELLING OF THE ELECTRON FIELD EMISSION EFFECT ON THE LOW DIMENSIONAL CARBON STRUCTURES
2014 2ND INTERNATIONAL CONFERENCE ON EMISSION ELECTRONICS (ICEE) , 91-96 (2014)
6. **GONCHAROV, L; YAFYASOV, A; PAVLOV, BS; MARTIN, GJ.**
THE DISPERSION FUNCTIONS FOR QUASI-2D PERIODIC LATTICES VIA DIRICHLET-TO-NEUMANN MAP
2ND INTERNATIONAL CONFERENCE ON MATHEMATICAL MODELING IN PHYSICAL SCIENCES 2013 (IC-MSQUARE 2013) 490, - (2014)
7. **ADAMYAN, V. M.; MARTIN, G. J.; PAVLOV, B. S..**
LOCAL INVERSE SCATTERING PROBLEM AS A TOOL OF PERTURBATION ANALYSIS FOR RESONANCE SYSTEMS
AM. MATH. SOC. TRANS. SER. 2 233, 1 (2014)
8. **FURSEY, GN; POLYAKOV, MA; KANTONISTOV, AA; YAFYASOV, AM; PAVLOV, BS; BOZHEVOL'NOV, VB.**
FIELD AND EXPLOSIVE EMISSIONS FROM GRAPHENE-LIKE STRUCTURES
TECHNICAL PHYSICS 58(6), 845-851 (2013)
9. **KRUGLOV, V.; MAKAROV, K. A.; PAVLOV, B.; YAFYASOV, A..**
EXPONENTIAL DECAY IN QUANTUM MECHANICS
COMPUTATION, PHYSICS, AND BEYOND 7160, (2012)
10. **FURSEY, GN; POLYAKOV, MA; KONTONISTOV, AA; YAFYASOV, AM; PAVLOV, BS; BOGEVOLNOV, VB.**
EXTREMELY LOW THRESHOLD OF FIELD EMISSION FROM GRAPHENE NANOCCLUSERS
2012 25TH INTERNATIONAL VACUUM NANOELECTRONICS CONFERENCE (IVNC) , 98-+ (2012)
11. **IVLEV, L; MARTIN, G; PAVLOV, B; PETROVA, L.**
A ZERO-RANGE MODEL FOR LOCALIZED BOUNDARY STRESS ON A TECTONIC PLATE WITH DISSIPATIVE BOUNDARY CONDITIONS
JOURNAL OF MATHEMATICS-FOR-INDUSTRY 4, 141 (2012)
12. **YAFYASOV, A; BOGEVOLNOV, V; FURSEY, G; PAVLOV, B; POLYAKOV, M; IBRAGIMOV, A.**
LOW-THRESHOLD FIELD EMISSION FROM CARBON NANO-CLUSTERS
ULTRAMICROSCOPY 111(6), 409-414 (2011)
13. **FURSEY, G; POLYAKOV, M; PAVLOV, B; YAFYASOV, A; BOGEVOLNOV, V.**
EXCEPTIONALLY LOW THRESHOLD OF FIELD EMISSION FROM CARBON NANOSTRUCTURES
2011 24TH INTERNATIONAL VACUUM NANOELECTRONICS CONFERENCE (IVNC) , 3-+ (2011)

14. **PAVLOV, B.**
A SOLVABLE MODEL FOR SCATTERING ON A JUNCTION AND A MODIFIED ANALYTIC PERTURBATION PROCEDURE
CHARACTERISTIC FUNCTIONS, SCATTERING FUNCTIONS AND TRANSFER FUNCTIONS: THE MOSHE LIVSIC MEMORIAL VOLUME 197, 281-336 (2010)
15. **MARTIN, G.; YAFYASOV, A. M.; PAVLOV, B. S..**
RESONANCE ONE-BODY SCATTERING ON A JUNCTION
NANOSYSTEMS-PHYSICS CHEMISTRY MATHEMATICS 1(1), 108 (2010)
16. **BRUNING, J; MARTIN, G; PAVLOV, B.**
CALCULATION OF THE KIRCHHOFF COEFFICIENTS FOR THE HELMHOLTZ RESONATOR
RUSSIAN JOURNAL OF MATHEMATICAL PHYSICS 16(2), 188-207 (2009)
17. **ADAMYAN, V; PAVLOV, B; YAFYASOV, A.**
MODIFIED KREIN FORMULA AND ANALYTIC PERTURBATION PROCEDURE FOR SCATTERING ON ARBITRARY JUNCTION
MODERN ANALYSIS AND APPLICATIONS: MARK KREIN CENTENARY CONFERENCE, VOL 1: OPERATOR THEORY AND RELATED TOPICS 190, 3-+ (2009)
18. **MIKHAILOVA, AB; PAVLOV, BS.**
REMARK ON THE COMPENSATION OF SINGULARITIES IN KREIN'S FORMULA
METHODS OF SPECTRAL ANALYSIS IN MATHEMATICAL PHYSICS 186, 325-+ (2009)
19. **PAVLOV, BS.**
KREIN FORMULA WITH COMPENSATED SINGULARITIES FOR THE ND-MAPPING AND THE GENERALIZED KIRCHHOFF CONDITION AT THE NEUMANN SCHRODINGER JUNCTION
RUSSIAN JOURNAL OF MATHEMATICAL PHYSICS 15(3), 364-388 (2008)
20. **ALBEVERIO, S; BRUENING, J; DOBROKHOTOV, S; EXNER, P; KOSHMANENKO, V; PANKRASHKIN, K; PAVLOV, B; POPOV, I; STOVICEK, P.**
VLADIMIR A. GEYLER APRIL 29, 1943-APRIL 2, 2007
RUSSIAN JOURNAL OF MATHEMATICAL PHYSICS 14(4), 371-376 (2007)
21. **PAVLOV, BS; RUDAKOVA, TV; RYZHII, VI; SEMENIKHIN, IA.**
PLASMA WAVES IN TWO-DIMENSIONAL ELECTRON CHANNELS: PROPAGATION AND TRAPPED MODES
RUSSIAN JOURNAL OF MATHEMATICAL PHYSICS 14(4), 465-481 (2007)
22. **HARMER, M; PAVLOV, B; YAFYASOV, A.**
BOUNDARY CONDITION AT THE JUNCTION
JOURNAL OF COMPUTATIONAL ELECTRONICS 6(1-3), 153-157 (2007)
23. **PAVLOV, B; YAFYASOV, A.**
STANDING WAVES AND RESONANCE TRANSPORT MECHANISM IN QUANTUM NETWORKS
SURFACE SCIENCE 601(13), 2712-2716 (2007)
24. **PAVLOV, B.**
A STAR-GRAPH MODEL VIA OPERATOR EXTENSION
MATHEMATICAL PROCEEDINGS OF THE CAMBRIDGE PHILOSOPHICAL SOCIETY 142, 365-384 (2007)
25. **MIKHAILOVA, AB; PAVLOV, BS; PROKHOROV, LV.**
INTERMEDIATE HAMILTONIAN VIA GLAZMAN'S SPLITTING AND ANALYTIC PERTURBATION FOR MEROMORPHIC MATRIX-FUNCTIONS
MATHEMATISCHE NACHRICHTEN 280(12), 1376-1416 (2007)
26. **MIKHAILOVA, AB; PAVLOV, B; RYZHII, VI.**
DIRICHLET-TO-NEUMANN TECHNIQUES FOR THE PLASMA-WAVES IN A SLOT-DIOD
OPERATOR THEORY, ANALYSIS AND MATHEMATICAL PHYSICS 174, 77-103 (2007)

27. **FOX, C; OLEINIK, V; PAVLOV, B.**
A DIRICHLET-TO-NEUMANN MAP APPROACH TO RESONANCE GAPS AND BANDS OF PERIODIC NETWORKS
RECENT ADVANCES IN DIFFERENTIAL EQUATIONS AND MATHEMATICAL PHYSICS 412, 151-+ (2006)
28. **BAGRAEV, NT; MIKHAILOVA, AB; PAVLOV, BS; PROKHOROV, LV; YAFYASOV, AM.**
PARAMETER REGIME OF A RESONANCE QUANTUM SWITCH
PHYSICAL REVIEW B 71(16), - (2005)
29. **PAVLOV, B.; KRUGLOV, V..**
SYMPLECTIC OPERATOR-EXTENSION TECHNIQUES AND ZERO-RANGE QUANTUM MODELS
NEW ZEALAND J. MATH 34(2), 125 (2005)
30. **PAVLOV, B.S.; KRUGLOV, V.I..**
OPERATOR-EXTENSION TECHNIQUE FOR RESONANCE SCATTERING OF NEUTRONS BY NUCLEI
HADRONIC JOURNAL 28(3), 259 (2005)
31. **PAVLOV, BS; RYZHII, VI.**
QUANTUM DOT AND ANTIDOT INFRARED PHOTODETECTORS: ITERATIVE METHODS FOR SOLVING THE LAPLACE EQUATION IN DOMAINS WITH INVOLVED GEOMETRY
THEORETICAL AND MATHEMATICAL PHYSICS 141(2), 1469-1481 (2004)
32. **OLEINIK, VL; PAVLOV, BS; SIBIREV, NV.**
ANALYSIS OF THE DISPERSION EQUATION FOR THE SCHRODINGER OPERATOR ON PERIODIC METRIC GRAPHS
WAVES IN RANDOM MEDIA 14(2), 157-183 (2004)
33. **PAVLOV, B.**
A REMARK ON SPECTRAL MEANING OF THE SYMMETRIC FUNCTIONAL MODEL
SPECTRAL METHODS FOR OPERATORS OF MATHEMATICAL PHYSICS 154, 163-177 (2004)
34. **BAGRAEV, NT; PAVLOV, BS; YAFYASOV, AM.**
RESONANCE QUANTUM SWITCH: SEARCH OF WORKING PARAMETERS
2003 IEEE INTERNATIONAL CONFERENCE ON SIMULATION OF SEMICONDUCTOR PROCESSES AND DEVICES , 275-278 (2003)
35. **PAVLOV, BS; POKROVSKI, AA; STREPETOV, AV.**
QUASI-RELATIVISM, THE NARROW-GAP PROPERTY, AND FORCED ELECTRON DYNAMICS IN SOLIDS
THEORETICAL AND MATHEMATICAL PHYSICS 131(1), 506-515 (2002)
36. **CALUDE, CS; PAVLOV, B.**
COINS, QUANTUM MEASUREMENTS, AND TURING'S BARRIER
QUANTUM INFORMATION PROCESSING 1(1-2), 107-127 (2002)
37. **MIKHAILOVA, A; PAVLOV, B; POPOV, I; RUDAKOVA, T; YAFYASOV, A.**
SCATTERING ON A COMPACT DOMAIN WITH FEW SEMI-INFINITE WIRES ATTACHED: RESONANCE CASE
MATHEMATISCHE NACHRICHTEN 235, 101-128 (2002)
38. **MIKHAYLOVA, AB; PAVLOV, BS.**
RESONANCE TRIADIC QUANTUM SWITCH
OPERATOR METHODS IN ORDINARY AND PARTIAL DIFFERENTIAL EQUATIONS 132, 287-322 (2002)
39. **BOS, L.P.; WARE, A.F.; PAVLOV, B.S..**
ON A SEMI-SPECTRAL METHOD FOR PRICING AN OPTION ON A MEAN-REVERTING ASSET
QUANTITATIVE FINANCE 2(5), 337 (2002)
40. **CALUDE, CS; PAVLOV, B.**
THE POINCARÉ-HARDY INEQUALITY ON THE COMPLEMENT OF A CANTOR

SET

INTERPOLATION THEORY, SYSTEMS THEORY AND RELATED TOPICS: THE HARRY DYM ANNIVERSARY VOLUME 134, 187-208 (2002)

41. **PAVLOV, BS; POPOV, IY; FROLOV, SV.**
QUANTUM SWITCH BASED ON COUPLED WAVEGUIDES
EUROPEAN PHYSICAL JOURNAL B 21(2), 283-287 (2001)
42. **MELNIKOV, Y; PAVLOV, B.**
SCATTERING ON GRAPHS AND ONE-DIMENSIONAL APPROXIMATIONS TO N-DIMENSIONAL SCHRODINGER OPERATORS
JOURNAL OF MATHEMATICAL PHYSICS 42(3), 1202-1228 (2001)
43. **MACCORMICK, JP; PAVLOV, BS.**
SPECTRAL THEORY OF WIENER-HOPF OPERATORS AND FUNCTIONAL MODEL OPERATOR THEORY, SYSTEM THEORY AND RELATED TOPICS: THE MOSHE LIVSIC ANNIVERSARY VOLUME 123, 433-452 (2001)
44. **MIKHAYLOVA, AB; PAVLOV, BS.**
THE QUANTUM DOMAIN AS A TRIADIC RELAY
UNCONVENTIONAL MODELS OF COMPUTATION UMC' 2K, PROCEEDINGS , 167-186 (2001)
45. **KRAGELOH, AM; PAVLOV, BS.**
UNSTABLE DYNAMICS ON A MARKOV BACKGROUND AND STABILITY IN AVERAGE
RECENT ADVANCES IN OPERATOR THEORY AND RELATED TOPICS: THE BELA SZOKEFALVI-NAGY MEMORIAL VOLUME 127, 423-435 (2001)
46. **PAVLOV, BS; POPOV, IY; GEYLER, VA; PERSHENKO, OS.**
POSSIBLE CONSTRUCTION OF A QUANTUM MULTIPLEXER
EUROPHYSICS LETTERS 52(2), 196-202 (2000)
47. **KURASOV, P; PAVLOV, B.**
FEW-BODY KREIN'S FORMULA
OPERATOR THEORY AND RELATED TOPICS 118, 225-254 (2000)
48. **BADANIN, AV; PAVLOV, BS; POKROVSKI, AA.**
ACOUSTO-OPTIC SCATTERING IN A SINGLE-MODE OPTIC FIBRE
DAY ON DIFFRACTION - MILLENNIUM WORKSHOP, PROCEEDINGS , 27-33 (2000)
49. **BOGEVOLNOV, VB; MIKHAILOVA, AB; PAVLOV, BS; YAFYASOV, AM.**
ABOUT SCATTERING ON THE RING
RECENT ADVANCES IN OPERATOR THEORY: ISRAEL GOHBERG ANNIVERSARY VOLUME 124, 155-173 (2000)
50. **PAVLOV, B; PIKE, R.; SABATIER, P..**
S-MATRIX AND DIRICHLET-TO-NEUMANN OPERATORS
SCATTERING AND SEMIGROUP THEORY , 1678 (2000)
51. **BRIDGES, D; CALUDE, C; PAVLOV, B; STEFANESCU, D.**
THE CONSTRUCTIVE IMPLICIT FUNCTION THEOREM AND APPLICATIONS IN MECHANICS
CHAOS SOLITONS & FRACTALS 10(6), 927-934 (1999)
52. **PAVLOV, B; ROACH, G; YAFYASOV, A.**
RESONANCE SCATTERING AND DESIGN OF QUANTUM GATES
UNCONVENTIONAL MODELS OF COMPUTATION , 336-351 (1998)
53. **GEYLER, V. A.; PAVLOV, B. S.; POPOV, I. YU..**
ONE-PARTICLE SPECTRAL PROBLEM FOR SUPERLATTICE WITH A CONSTANT MAGNETIC FIELD
ATTI. SEM. MAT. FIS. UNIV. MODENA 46, 79 (1998)
54. **KUPERIN, YA; LEVIN, SB; MELNIKOV, YB; PAVLOV, BS.**
QUANTUM LORENTZ GAS: EFFECTIVE EQUATIONS AND SPECTRAL ANALYSIS
COMPUTERS & MATHEMATICS WITH APPLICATIONS 34(5-6), 599-612 (1997)
55. **GEYLER, VA; PAVLOV, BS; POPOV, IY.**
SPECTRAL PROPERTIES OF A CHARGED PARTICLE IN ANTIDOT ARRAY: A

- LIMITING CASE OF QUANTUM BILLIARD
JOURNAL OF MATHEMATICAL PHYSICS 37(10), 5171-5194 (1996)
56. **PAVLOV, B. S.**
SPECTRAL ANALYSIS OF A DISSIPATIVE SINGULAR SCHRODINGER
OPERATOR IN TERMS OF A FUNCTIONAL MODEL, ITOGI NAUKI TEKH. SER.
SOVREM. PROBL. MAT. FUNDAM. NAPRAVLENIYA 65 (1991), 95-163, PARTIAL
DIFFERENTIAL EQUATIONS VIII
ENCYC. MATH. SCI 65, 87 (1996)
57. **MELNIKOV, YB; PAVLOV, BS.**
2-BODY SCATTERING ON A GRAPH AND APPLICATION TO SIMPLE
NANOELECTRONIC DEVICES
JOURNAL OF MATHEMATICAL PHYSICS 36(6), 2813-2825 (1995)
58. **KUPERIN, YA; PAVLOV, BS; RUDIN, GE; VINITSKY, SI.**
SPECTRAL GEOMETRY - 2 EXACTLY SOLVABLE MODELS
PHYSICS LETTERS A 194(1-2), 59-63 (1994)
59. **KISELEV, AA; PAVLOV, BS.**
EIGENFREQUENCIES AND EIGENFUNCTIONS OF THE LAPLACIAN FOR
NEUMANN BOUNDARY-CONDITIONS IN A SYSTEM OF 2 COUPLED CAVITIES
THEORETICAL AND MATHEMATICAL PHYSICS 100(3), 1065-1074 (1994)
60. **KISELEV, AA; PAVLOV, BS.**
ESSENTIAL SPECTRUM OF THE LAPLACIAN FOR THE NEUMANN PROBLEM IN
A MODEL REGION OF COMPLICATED STRUCTURE
THEORETICAL AND MATHEMATICAL PHYSICS 99(1), 383-395 (1994)
61. **MAKAROV, KA.**
QUANTUM SCATTERING ON A CANTOR BAR
JOURNAL OF MATHEMATICAL PHYSICS 35(4), 1522-1531 (1994)
62. **KURASOV, P; PAVLOV, B.**
MICRO-SPECTRAL PROPERTIES OF CRYSTALS AND THEIR BAND-STRUCTURE
ON THREE LEVELS: MICRO-, MESO-, AND MACRO-APPROACHES IN PHYSICS
324, 259-264 (1994)
63. **KURASOV, P; KURASOV, V; PAVLOV, B.**
2ND VIRIAL-COEFFICIENT FOR ONE-DIMENSIONAL SYSTEMS
ON THREE LEVELS: MICRO-, MESO-, AND MACRO-APPROACHES IN PHYSICS
324, 423-428 (1994)
64. **PAVLOV, B..**
NONPHYSICAL SHEET FOR PERTURBED JACOBIAN MATRICES
ALGEBRA I ANALIZ 6(3), 185 (1994)
65. **PAVLOV, BS; POKROVSKII, AA.**
EXPLICITLY SOLVABLE MODEL OF MOSSBAUER SCATTERING
THEORETICAL AND MATHEMATICAL PHYSICS 95(3), 700-707 (1993)
66. **GALLOONOV, GV; OLEINIK, VL; PAVLOV, BS.**
ESTIMATIONS FOR NEGATIVE SPECTRAL BANDS OF 3-DIMENSIONAL
PERIODICAL SCHRODINGER OPERATOR
JOURNAL OF MATHEMATICAL PHYSICS 34(3), 936-942 (1993)
67. **KURASOV, P; ELANDER, N; PAVLOV, B.**
RESONANCES AND IRREVERSIBILITY FOR SCHRODINGER EVOLUTION
INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY 46(3), 401-413 (1993)
68. **PAVLOV, BS; PANKRATOV, MA.**
ELECTRON-TRANSPORT IN QUASI-ONE-DIMENSIONAL RANDOM STRUCTURE
JOURNAL OF MATHEMATICAL PHYSICS 33(8), 2916-2922 (1992)
69. **KISELEV, AA; PAVLOV, BS; PENKINA, NN; SUTURIN, MG.**
ALLOWANCE FOR INTERACTION SYMMETRY IN THE THEORY OF
EXTENSIONS
THEORETICAL AND MATHEMATICAL PHYSICS 91(2), 453-461 (1992)
70. **ADAMYAN, VM; PAVLOV, BS.**
HIGH-T(C) SUPERCONDUCTIVITY AS A CONSEQUENCE OF AN OVERLAP OF A

- NONDEGENERATE AND A PLANE BANDS
FIZIKA TVERDOGO TELA 34(2), 628-635 (1992)
71. **PAVLOV, BS; STREPETOV, AV.**
EXACTLY SOLVABLE MODEL OF ELECTRON-SCATTERING BY AN
INHOMOGENEITY IN A THIN CONDUCTOR
THEORETICAL AND MATHEMATICAL PHYSICS 90(2), 152-156 (1992)
72. **PAVLOV, BS; FROLOV, SV.**
SPECTRAL IDENTITIES FOR BAND SPECTRUM IN ONE-DIMENSIONAL CASE
THEORETICAL AND MATHEMATICAL PHYSICS 89(1), 1013-1019 (1991)
73. **PAVLOV, BS; FROLOV, SV.**
FORMULA FOR THE SUM OF THE EFFECTIVE MASSES OF A
MULTIDIMENSIONAL LATTICE
THEORETICAL AND MATHEMATICAL PHYSICS 87(3), 657-668 (1991)
74. **PAVLOV, BS; POPOV, IY.**
ACOUSTIC MODEL OF ZERO-WIDTH SLITS AND HYDRODYNAMIC BOUNDARY-
LAYER STABILITY
THEORETICAL AND MATHEMATICAL PHYSICS 86(3), 269-276 (1991)
75. **KUPERIN, YA; PAVLOV, BS.**
3 PARTICLES IN A LATTICE - A MODEL OF INTERACTION AND DYNAMIC
EQUATIONS
RIGOROUS RESULTS IN QUANTUM DYNAMICS , 152-163 (1991)
76. **KUPERIN, YA; MAKAROV, KA; MERKURIEV, SP; MOTOVILOV, AK;
PAVLOV, BS.**
EXTENDED HILBERT-SPACE APPROACH TO FEW-BODY PROBLEMS
JOURNAL OF MATHEMATICAL PHYSICS 31(7), 1681-1690 (1990)
77. **KUPERIN, YA; MAKAROV, KA; PAVLOV, BS.**
AN EXTENSIONS THEORY SETTING FOR SCATTERING BY BREATHING BAG
JOURNAL OF MATHEMATICAL PHYSICS 31(1), 199-201 (1990)
78. **KUPERIN, YA; MAKAROV, KA; PAVLOV, BS.**
MODEL OF RESONANCE SCATTERING OF COMPOSITE-PARTICLES
THEORETICAL AND MATHEMATICAL PHYSICS 69(1), 1028-1038 (1986)
79. **KARPESHINA, YE; PAVLOV, BS.**
ZERO RADIUS INTERACTION FOR THE BIHARMONIC AND POLYHARMONIC
EQUATIONS
MATHEMATICAL NOTES 40(1-2), 528-533 (1986)
80. **BELOZERSKI, GN; MAKAROV, KA; PAVLOV, BS; SIMONIAN, SG.**
DISCRETE ORIENTATION MODEL OF SUPERPARAMAGNETIC PARTICLES WITH
CUBIC POSITIVE SYMMETRY ($K > 0$)
VESTNIK LENINGRADSKOGO UNIVERSITETA SERIYA FIZIKA KHIMIYA (1), 84-
87 (1986)
81. **PAVLOV, BS; POPOV, IY.**
SURFACE-WAVES AND THE EXTENSION THEORY
VESTNIK LENINGRADSKOGO UNIVERSITETA SERIYA MATEMATIKA
MEKHANIKA ASTRONOMIYA (4), 105-108 (1986)
82. **PAVLOV, BS; STREPETOV, AV.**
SIMULTANEOUS COMPLETENESS IN THE CASE OF CONTINUOUS-SPECTRUM
FUNCTIONAL ANALYSIS AND ITS APPLICATIONS 20(1), 27-30 (1986)
83. **KUPERIN, YU.A.; MAKAROV, K.A.; PAVLOV, B.S..**
THE MODEL OF RESONANCE SCATTERING FOR COMPLICATED PARTICLES
TEORETICHESKAYA I MATEMATICHESKAYA FIZIKA 69(1), 100 (1986)
84. **PAVLOV, B.S.; KARPESHINA, YU.E..**
INTERACTION OF THE ZERO RADIUS FOR THE BIHARMONIC AND THE
POLYHARMONIC EQUATION
MAT. ZAMETKI 40, 49 (1986)
85. **PAVLOV, BS; POPOV, IY.**
THE RUNNING WAVE IN RING RESONATOR

- VESTNIK LENINGRADSKOGO UNIVERSITETA SERIYA FIZIKA KHIMIYA (1), 99-102 (1985)
86. **KUPERIN, YA; MAKAROV, KA; PAVLOV, BS.**
ONE-DIMENSIONAL MODEL OF 3-PARTICLE RESONANCES
THEORETICAL AND MATHEMATICAL PHYSICS 63(1), 376-382 (1985)
 87. **PAVLOV, B.S.; POPOV, I.YU..**
RUNNING WAVE IN THE RING RESONATOR
VESTNIK LENING. UNIV. (4), (1985)
 88. **FADDEEV, LD; PAVLOV, BS.**
ZERO SETS OF OPERATOR-FUNCTIONS WITH A POSITIVE IMAGINARY PART
LECTURE NOTES IN MATHEMATICS 1043, 124-128 (1984)
 89. **PAVLOV, BS; POPOV, IY.**
THE SCATTERING BY RESONATORS WITH SMALL AND POINT HOLES
VESTNIK LENINGRADSKOGO UNIVERSITETA SERIYA MATEMATIKA
MEKHANIKA ASTRONOMIYA (3), 116-118 (1984)
 90. **NIKOLSKII, NK; PAVLOV, BS; VASYUNIN, VI.**
SPECTRAL DECOMPOSITIONS AND THE CARLESON CONDITION
LECTURE NOTES IN MATHEMATICS 1043, 144-146 (1984)
 91. **PAVLOV, BS.**
MODEL OF A ZERO-RANGE POTENTIAL WITH INTERNAL STRUCTURE
THEORETICAL AND MATHEMATICAL PHYSICS 59(3), 544-550 (1984)
 92. **PAVLOV, BS; POPOV, IY.**
MODEL OF DIFFRACTION ON AN INFINITELY-NARROW SPLIT AND THE
THEORY OF EXPANSIONS
VESTNIK LENINGRADSKOGO UNIVERSITETA SERIYA MATEMATIKA
MEKHANIKA ASTRONOMIYA (4), 36-44 (1983)
 93. **BELOZERSKII, GN; PAVLOV, BS.**
CONSIDERATION OF THE PRECESSION EFFECT DURING A MOSSBAUER
SPECTRUM SHAPE-ANALYSIS IN THE PRESENCE OF SUPERMAGNETISM
FIZIKA TVERDOGO TELA 25(6), 1690-1697 (1983)
 94. **PAVLOV, BS; FADDEEV, MD.**
MODEL OF FREE-ELECTRONS AND THE SCATTERING PROBLEM
THEORETICAL AND MATHEMATICAL PHYSICS 55(2), 485-492 (1983)
 95. **PAVLOV, B. S.; FADDEEV, M. D..**
A MODEL OF FREE ELECTRONS AND THE SCATTERING PROBLEM
TEORET. MAT. FIZ. 55(2), 257 (1983)
 96. **BELOZERSKII, G.N.; PAVLOV, B.S..**
PROFILES OF MOSSBAUER SPECTRA IN THE PRESENCE OF
SUPERPARAMAGNETISM. ALLOWANCE FOR PRECESSION
SOVIET PHYSICS - SOLID STATE 25(6), 974 (1983)
 97. **BELOZERSKY, GN; MAKAROV, KA; PAVLOV, BS.**
THE DISCRETE ORIENTATION MODEL IN THE THEORY OF
SUPERPARAMAGNETISM
VESTNIK LENINGRADSKOGO UNIVERSITETA SERIYA FIZIKA KHIMIYA (1), 12-18 (1982)
 98. **PAVLOV, B. S.; SMIRNOV, N. V..**
RESONANCE SCATTERING BY A ONE-DIMENSIONAL CRYSTAL AND A THIN
FILM
VESTNIK LENINGRAD. UNIV. 10, 307 (1982)
 99. **HRUSCEV, S. V.; NIKOLSKIY, N. K.; PAVLOV, B. S..**
UNCONDITIONAL BASES OF EXPONENTIALS AND OF REPRODUCING
KERNELS, COMPLEX ANALYSIS AND SPECTRAL THEORY
LECTURE NOTES IN MATHEMATICS 864, 215 (1981)
 100. **IVANOV, SA; PAVLOV, BS.**
SYSTEMS OF VECTOR-EXPONENTIALS AND ZEROS OF ENTIRE MATRIX-
FUNCTIONS

- VESTNIK LENINGRADSKOGO UNIVERSITETA SERIYA MATEMATIKA
MEKHANIKA ASTRONOMIYA (1), 25-31 (1980)
101. **BELOZERSKII, GN; PAVLOV, BS; SEMENOV, VG; KORENEV, NK.**
THE TIME DEVELOPMENT OF THE MAGNETIC-MOMENT OF SUPER-
PARAMAGNETIC PARTICLES AND THE DISCRETE ORIENTATION MODEL .2.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 20(1), 1-10 (1980)
102. **PAVLOV, B..**
THE BASIS PROPERTY OF A SYSTEM OF EXPONENTIALS AND THE CONDITION
OF MUCKENHOUP
DOKL. AKAD. NAUK. , (1979)
103. **PAVLOV, B..**
BASICITY OF AN EXPONENTIAL SYSTEM AND MUCKENHOUP'S CONDITION
SOV. MATH. DOKL. , (1979)
104. **ADAMYAN, VM; PAVLOV, BS.**
TRACE FORMULA FOR DISSIPATIVE OPERATORS
VESTNIK LENINGRADSKOGO UNIVERSITETA SERIYA MATEMATIKA
MEKHANIKA ASTRONOMIYA (2), 5 (1979)
105. **BELOZERSKII, GN; PAVLOV, BS.**
MOTION OF THE MAGNETIZATION VECTOR OF SUPER-PARAMAGNETIC
PARTICLES IN THE STATIONARY CASE
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS 12(1), 34 (1979)
106. **PAVLOV, BS.**
BASIC PROPERTY OF EXPONENTIAL AND THE CONDITION OF MUCHENHOUP
DOKLADY AKADEMII NAUK SSSR 247(1), 37 (1979)
107. **IVANOV, SA; PAVLOV, BS.**
CARLESON SERIES OF RESONANCES IN THE REGGE PROBLEM
MATHEMATICS OF THE USSR-IZVESTIYA 12(1), 21 (1978)
108. **BELOZERSKII, G.N.; PAVLOV, B.S..**
METHOD OF ESTIMATION OF RELAXATION FREQUENCIES FOR
MAGNETIZATION VECTOR MOVEMENT IN THE CASE OF
SUPERPARAMAGNETIC PARTICLES
VESTNIK LENINGRADSKOGO UNIVERSITETA, FIZIKA I KHIMIYA (4), 12 (1978)
109. **PAVLOV, BS.**
SELF-ADJOINT DILATION OF DISSIPATIVE SCHRODINGER OPERATOR AND ITS
RESOLUTION IN TERMS OF EIGENFUNCTIONS
MATHEMATICS OF THE USSR-SBORNIK 31(4), 457 (1977)
110. **PAVLO, B.S.; PAVLOV, B.S..**
DILATION THEORY AND SPECTRAL ANALYSIS OF NONSELFADJOINT
DIFFERENTIAL OPERATORS
TRANSL. II. SER., AMER. MATH. SOC. 115, 3 (1976)
111. **PAVLOV, B. S..**
SELF-ADJOINT DILATION OF A DISSIPATIVE SCHRODINGER OPERATOR
AND AN EIGENFUNCTION EXPANSION
FUNCTIONAL ANALYSIS AND ITS APPLICATIONS 9(2), 172 (1975)
112. **PAVLOV, B. S..**
CONDITIONS FOR SEPARATION OF THE SPECTRAL COMPONENTS OF A
DISSIPATIVE OPERATOR
IZV. AKAD. NAUK SSSR, SER. MAT 39, 123 (1975)
113. **PAVLOV, BS.**
EXPANSION BY EIGENFUNCTIONS OF ABSOLUTELY CONTINUOUS SPECTRA
OF DISSIPATIVE OPERATORS
VESTNIK LENINGRADSKOGO UNIVERSITETA SERIYA MATEMATIKA
MEKHANIKA ASTRONOMIYA (1), 130 (1975)
114. **OLEINIK, V. L.; PAVLOV, B. S..**
EMBEDDING THEOREMS FOR WEIGHTED CLASSES OF HARMONIC AND

- ANALYTIC FUNCTIONS
J. SOVIET MATH. 2, 135 (1974)
115. **PAVLOV, B. S.**
DILATION THEORY AND SPECTRAL ANALYSIS OF NONSELFADJOINT
DIFFERENTIAL OPERATORS
MATHEMATICAL PROGRAMMING AND RELATED QUESTIONS (PROC.
SEVENTH WINTER SCHOOL, DROGOBYCH, 1974), 3 (1974)
116. **PAVLOV, B. S.**
ON THE ONE-DIMENSIONAL SCATTERING OF PLANE WAVES ON AN
ARBITRARY POTENTIAL
THEORETICAL AND MATHEMATICAL PHYSICS 16(1), 706 (1973)
117. **PAVLOV, B. S.**
FACTORIZATION OF THE SCATTERING MATRIX, AND THE SERIAL STRUCTURE
OF ITS ROOTS
IZV. AKAD. NAUK SSSR SER. MAT. 37, 217 (1973)
118. **PAVLOV, B. S.**
SPECTRAL ANALYSIS OF A DIFFERENTIAL OPERATOR WITH A BLURRED
BOUND-ARY CONDITION
PROBLEMS OF MATHEMATICAL PHYSICS (6), 10 (1973)
119. **PAVLOV, BS.**
CONTINUOUS RESONANCE-SPECTRUM ON A NON-PHYSICAL SHEET
DOKLADY AKADEMII NAUK SSSR 206(6), 1301 (1972)
120. **PAVLOV, BS.**
COMPLETENESS OF RESONANCE STATE SET FOR A SYSTEM OF DIFFERENTIAL
EQUATIONS
DOKLADY AKADEMII NAUK SSSR 196(6), 1272 (1971)
121. **OLEINIK, V. L.; PAVLOV, B. S.**
EMBEDDING THEOREMS FOR THE WEIGHTED CLASS OF HARMONIC AND
ANALYTIC FUNCTIONS
INVESTIGATIONS ON LINEAR OPERATORS AND FUNCTION THEORY. PART II
22, (1971)
122. **PAVLOV, B. S.; PETRAS, S. V.**
THE SINGULAR SPECTRUM OF A WEAKLY PERTURBED MULTIPLICATION
OPERATOR
FUNKTSIONAL. ANAL. I PRILOZHEN. 4(2), 54 (1970)
123. **NIKOLSKI, N. K.; PAVLOV, B. S.**
BASES OF EIGENVECTORS OF COMPLETELY NONUNITARY CONTRACTIONS
AND THE CHARACTERISTIC FUNCTION
SOVIET MATH. DOKL. 10(1), 138 (1969)
124. **PAVLOV, B. S.**
MULTIDIMENSIONAL OPERATOR INTEGRALS, PROBL. MAT. ANAL., NO. 2
LINEAR OPERATORS AND OPERATOR EQUATIONS, 99 (1969)
125. **PAVLOV, B. S.**
ON MULTIPLE OPERATOR INTEGRALS
PROBL. MATH. ANAL. 2, 99 (1969)
126. **PAVLOV, B. S.**
ON A NON-SELFADJOINT SCHRODINGER OPERATOR. II (RUSSIAN),
PROBLEMS OF MATHEMATICAL PHYSICS (2), 133 (1967)
127. **PAVLOV, BS.**
NON-SELFADJOINT OPERATOR - $Y'' + Q(X)Y$ ON A HALF-AXIS
DOKLADY AKADEMII NAUK SSSR 141(4), 807 (1961)