

Борис Федорович Самсонов



(07.11.1949 - 08.11.2012)

Томский государственный университет, Физический факультет, кафедра квантовой теории поля, профессор, доктор физико-математических наук.

Список основных публикаций:

1. **BAYE, D; SPARENBERG, JM; PUPASOV-MAKSIMOV, AM; SAMSONOV, BF.**
SINGLE- AND COUPLED-CHANNEL RADIAL INVERSE SCATTERING WITH SUPERSYMMETRIC TRANSFORMATIONS
JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL 47(24), - (2014)
2. **SAMSONOV, BF.**
HERMITIAN HAMILTONIAN EQUIVALENT TO A GIVEN NON-HERMITIAN ONE: MANIFESTATION OF SPECTRAL SINGULARITY
PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES 371(1989), - (2013)
3. **BENDER, CM; BRODY, DC; CALDEIRA, J; GUNTHER, U; MEISTER, BK; SAMSONOV, BF.**
PT-SYMMETRIC QUANTUM STATE DISCRIMINATION
PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES 371(1989), - (2013)
4. **SAMSONOV, BF.**
SUPERSYMMETRIC ETA OPERATORS
JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL 45(44), - (2012)
5. **SAMSONOV, BF.**
SCATTERING CROSS-SECTION RESONANCE ORIGINATING FROM A SPECTRAL SINGULARITY
JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL 44(39), - (2011)
6. **BAGROV, VG; SAMSONOV, BF; SHAMSHUTDINOVA, VV.**
PARTICLE LOCALIZATION IN A DOUBLE-WELL POTENTIAL BY PSEUDO-SUPERSYMMETRIC FIELDS
PHYSICS OF ATOMIC NUCLEI 74(6), 846-851 (2011)
7. **PECHERITSIN, AA; PUPASOV, AM; SAMSONOV, BF.**
SINGULAR MATRIX DARBOUX TRANSFORMATIONS IN THE INVERSE-SCATTERING METHOD
JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL 44(20), - (2011)
8. **PUPASOV, A; SAMSONOV, BF; SPARENBERG, JM; BAYE, D.**
RECONSTRUCTING THE NUCLEON-NUCLEON POTENTIAL BY A NEW

COUPLED-CHANNEL INVERSION METHOD
PHYSICAL REVIEW LETTERS 106(15), - (2011)

9. **SAMSONOV, BF.**
SUSY TRANSFORMATIONS WITH COMPLEX FACTORIZATION CONSTANTS:
APPLICATION TO SPECTRAL SINGULARITIES
JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL 43(40), - (2010)
10. **SAMSONOV, BF; SHAMSHUTDINOVA, VV; OSIPOV, AV.**
EQUIVALENT HERMITIAN OPERATOR FROM SUPERSYMMETRIC QUANTUM
MECHANICS
PHYSICS LETTERS A 374(19-20), 1962-1965 (2010)
11. **PUPASOV, AM; SAMSONOV, BF; SPARENBERG, JM; BAYE, D.**
EIGENPHASE PRESERVING TWO-CHANNEL SUSY TRANSFORMATIONS
JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL 43(15), - (2010)
12. **SAMSONOV, BF.**
MINIMUM ERROR DISCRIMINATION PROBLEM FOR PURE QUBIT STATES
PHYSICAL REVIEW A 80(5), - (2009)
13. **SAMSONOV, BF.**
OPTIMAL POSITIVE-OPERATOR-VALUED MEASURES FOR UNAMBIGUOUS
STATE DISCRIMINATION
PHYSICAL REVIEW A 79(4), - (2009)
14. **PUPASOV, AM; SAMSONOV, BF; SPARENBERG, JM; BAYE, D.**
COUPLING BETWEEN SCATTERING CHANNELS WITH SUSY
TRANSFORMATIONS FOR EQUAL THRESHOLDS
JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL 42(19), - (2009)
15. **GUNTHER, U; SAMSONOV, BF.**
NAIMARK-DILATED PT-SYMMETRIC BRACHISTOCHRONE
PHYSICAL REVIEW LETTERS 101(23), - (2008)
16. **SHAMSHUTDINOVA, VV; PICHUGIN, KN; ROTTER, I; SAMSONOV, BF.**
FESHBACH PROJECTION-OPERATOR FORMALISM APPLIED TO RESONANCE
SCATTERING ON BARGMANN-TYPE POTENTIALS
PHYSICAL REVIEW A 78(6), - (2008)
17. **GUNTHER, U; SAMSONOV, BF.**
PT-SYMMETRIC BRACHISTOCHRONE PROBLEM, LORENTZ BOOSTS, AND
NONUNITARY OPERATOR EQUIVALENCE CLASSES
PHYSICAL REVIEW A 78(4), - (2008)
18. **SPARENBERG, JM; PUPASOV, AM; SAMSONOV, BF; BAYE, D.**
EXACTLY-SOLVABLE COUPLED-CHANNEL MODELS FROM SUPERSYMMETRIC
QUANTUM MECHANICS
MODERN PHYSICS LETTERS B 22(23), 2277-2286 (2008)
19. **SAMSONOV, BF; SHAMSHUTDINOVA, VV.**
DYNAMICAL QUBIT CONTROLLING VIA PSEUDO-SUPERSYMMETRY OF TWO-
LEVEL SYSTEMS
JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL 41(24), - (2008)
20. **SHAMSHUTDINOVA, VV; KIYKO, AS; SHEVCHENKO, SN; SAMSONOV, BF;
OMELYANCHOUK, AN.**
DYNAMICS OF SUPERCONDUCTING QUBITS WITH EXACTLY SOLVABLE BIAS
PULSES
RUSSIAN PHYSICS JOURNAL 51(6), 578-586 (2008)
21. **PUPASOV, AM; SAMSONOV, BF; SPARENBERG, JM.**
SPECTRAL PROPERTIES OF NON-CONSERVATIVE MULTICHANNEL SUSY
PARTNERS OF THE ZERO POTENTIAL
JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL 41(17), - (2008)
22. **PUPASOV, AM; SAMSONOV, BF; SPARENBERG, JM.**
EXACTLY SOLVABLE COUPLED-CHANNEL POTENTIAL MODELS OF ATOM-
ATOM MAGNETIC FESHBACH RESONANCES FROM SUPERSYMMETRIC

- QUANTUM MECHANICS
PHYSICAL REVIEW A 77(1), - (2008)
23. **PUPASOV, AM; SAMSONOV, BF; GUNTHER, U.**
EXACT PROPAGATORS FOR SUSY PARTNERS
JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL 40(34), 10557-10587 (2007)
 24. **GUNTHER, U; ROTTER, I; SAMSONOV, BF.**
PROJECTIVE HILBERT SPACE STRUCTURES AT EXCEPTIONAL POINTS
JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL 40(30), 8815-8833 (2007)
 25. **SHAMSHUTDINOVA, VV; SAMSONOV, BF; GITMAN, DM.**
TWO-LEVEL SYSTEMS: EXACT SOLUTIONS AND UNDERLYING PSEUDO-SUPERSYMMETRY
ANNALS OF PHYSICS 322(5), 1043-1061 (2007)
 26. **SAMSONOV, BF; SPARENBERG, JM; BAYE, D.**
SUPERSYMMETRIC TRANSFORMATIONS FOR COUPLED CHANNELS WITH THRESHOLD DIFFERENCES
JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL 40(15), 4225-4240 (2007)
 27. **GUNTHER, U; SAMSONOV, BF; STEFANI, F.**
A GLOBALLY DIAGONALIZABLE ALPHA(2)-DYNAMO OPERATOR, SUSY QM AND THE DIRAC EQUATION
JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL 40(5), F169-F176 (2007)
 28. **SPARENBERG, JM; SAMSONOV, BF; FOUCART, F; BAYE, D.**
MULTICHANNEL COUPLING WITH SUPERSYMMETRIC QUANTUM MECHANICS AND EXACTLY-SOLVABLE MODEL FOR THE FESHBACH RESONANCE
JOURNAL OF PHYSICS A-MATHEMATICAL AND GENERAL 39(45), L639-L645 (2006)
 29. **SAMSONOV, BF.**
IRREDUCIBLE SECOND ORDER SUSY TRANSFORMATIONS BETWEEN REAL AND COMPLEX POTENTIALS
PHYSICS LETTERS A 358(2), 105-114 (2006)
 30. **SAMSONOV, BF; PUPASOV, AM.**
EXACT PROPAGATORS FOR COMPLEX SUSY PARTNERS OF REAL POTENTIALS
PHYSICS LETTERS A 356(3), 210-214 (2006)
 31. **SAMSONOV, BF; SHAMSHUTDINOVA, VV; GITMAN, DM.**
POLYNOMIAL PSEUDOSUPERSYMMETRY UNDERLYING A TWO-LEVEL ATOM IN AN EXTERNAL ELECTROMAGNETIC FIELD
CZECHOSLOVAK JOURNAL OF PHYSICS 55(9), 1173-1176 (2005)
 32. **SAMSONOV, BF; SUKUMAR, CV; PUPASOV, AA.**
SUSY TRANSFORMATION OF THE GREEN FUNCTION AND A TRACE FORMULA
JOURNAL OF PHYSICS A-MATHEMATICAL AND GENERAL 38(34), 7557-7565 (2005)
 33. **SAMSONOV, BF.**
SPECTRAL SINGULARITIES OF NON-HERMITIAN HAMILTONIANS AND SUSY TRANSFORMATIONS
JOURNAL OF PHYSICS A-MATHEMATICAL AND GENERAL 38(34), L571-L579 (2005)
 34. **PERSHIN, YV; SAMSONOV, BF.**
QUANTUM DOTS CREATED THROUGH SPHERICALLY POLARIZED NUCLEAR SPINS
PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES 28(2), 134-140 (2005)
 35. **SAMSONOV, BF; SHAMSHUTDINOVA, VV.**
QUADRATIC PSEUDOSUPERSYMMETRY IN TWO-LEVEL SYSTEMS

- JOURNAL OF PHYSICS A-MATHEMATICAL AND GENERAL 38(21), 4715-4725
(2005)
36. **SAMSONOV, BF.**
SUSY TRANSFORMATIONS BETWEEN DIAGONALIZABLE AND NON-DIAGONALIZABLE HAMILTONIANS
JOURNAL OF PHYSICS A-MATHEMATICAL AND GENERAL 38(21), L397-L403
(2005)
 37. **SAMSONOV, BF; ROY, P.**
IS THE CPT NORM ALWAYS POSITIVE?
JOURNAL OF PHYSICS A-MATHEMATICAL AND GENERAL 38(15), L249-L255
(2005)
 38. **PUPASOV, AM; SAMSONOV, BF.**
EXACT PROPAGATORS FOR SOLITON POTENTIALS
SYMMETRY INTEGRABILITY AND GEOMETRY-METHODS AND APPLICATIONS
1, - (2005)
 39. **SAMSONOV, B.F.; PUPASOV, A.M..**
DARBOUX TRANSFORMATION OF THE GREEN'S FUNCTION OF A REGULAR
STURM-LIOUVILLE PROBLEM
RUSSIAN PHYSICS JOURNAL 48(10), 1020 (2005)
 40. **PECHERITSYN, A.A.; POZDEEVA, E.O.; SAMSONOV, B.F..**
DARBOUX TRANSFORMATION OF THE NONSTATIONARY DIRAC EQUATION
RUSSIAN PHYSICS JOURNAL 48(4), 365 (2005)
 41. **AREF'EVA, I; FERNANDEZ, DJ; HUSSIN, V; NEGRO, J; NIETO, LM;
SAMSONOV, BF.**
PROGRESS IN SUPERSYMMETRIC QUANTUM MECHANICS
JOURNAL OF PHYSICS A-MATHEMATICAL AND GENERAL 37(43), - (2004)
 42. **SAMSONOV, BF; NEGRO, J.**
DARBOUX TRANSFORMATIONS OF THE JAYNES-CUMMINGS HAMILTONIAN
JOURNAL OF PHYSICS A-MATHEMATICAL AND GENERAL 37(43), 10115-10127
(2004)
 43. **SAMSONOV, BF.**
DARBOUX TRANSFORMATIONS OF COHERENT STATES OF THE TIME-
DEPENDENT SINGULAR OSCILLATOR
JOURNAL OF PHYSICS A-MATHEMATICAL AND GENERAL 37(43), 10273-10286
(2004)
 44. **SAMSONOV, BF; PECHERITSIN, AA.**
CHAINS OF DARBOUX TRANSFORMATIONS FOR THE MATRIX SCHRODINGER
EQUATION
JOURNAL OF PHYSICS A-MATHEMATICAL AND GENERAL 37(1), 239-250 (2004)
 45. **BAGROV, V.G.; PECHERITSIN, A.A.; POZDEEVA, E.O.; SAMSONOV, B.F..**
EXACTLY SOLVABLE PSEUDOSCALAR PERIODIC DIRAC POTENTIALS FROM
DARBOUX TRANSFORMATIONS AND UNDERLYING NONLINEAR
SUPERSYMMETRY
COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION
9(1), 13 (2004)
 46. **NIETO, LM; SAMSONOV, BF; SUZKO, AA.**
INTERTWINING TECHNIQUE FOR A SYSTEM OF DIFFERENCE SCHRODINGER
EQUATIONS AND NEW EXACTLY SOLVABLE MULTICHANNEL POTENTIALS
JOURNAL OF PHYSICS A-MATHEMATICAL AND GENERAL 36(49), 12293-12304
(2003)
 47. **GLASSER, ML; NIETO, LM; SAMSONOV, BF.**
SUPERSYMMETRIC MANIPULATION OF QUASIENERGY STATES: APPLICATION
TO THE GEOMETRIC PHASE
JOURNAL OF PHYSICS A-MATHEMATICAL AND GENERAL 36(46), L585-L591
(2003)

48. **SAMSONOV, BF; GLASSER, ML; NEGRO, J; NIETO, LM.**
SECOND-ORDER DARBOUX DISPLACEMENTS
JOURNAL OF PHYSICS A-MATHEMATICAL AND GENERAL 36(39), 10053-10069
(2003)
49. **SAMSONOV, BF; PECHERITSIN, AA; POZDEEVA, EO; GLASSER, ML.**
NEW EXACTLY SOLVABLE PERIODIC POTENTIALS FOR THE DIRAC EQUATION
EUROPEAN JOURNAL OF PHYSICS 24(4), 435-441 (2003)
50. **NIETO, LM; PECHERITSIN, AA; SAMSONOV, BF.**
INTERTWINING TECHNIQUE FOR THE ONE-DIMENSIONAL STATIONARY
DIRAC EQUATION
ANNALS OF PHYSICS 305(2), 151-189 (2003)
51. **SAMSONOV, BF; STANCU, F.**
PHASE SHIFT EFFECTIVE RANGE EXPANSION FROM SUPERSYMMETRIC
QUANTUM MECHANICS
PHYSICAL REVIEW C 67(5), - (2003)
52. **SAMSONOV, BF; SUZKO, AA.**
DISCRETE SUPERSYMMETRIES OF THE SCHRODINGER EQUATION AND
NONLOCAL EXACTLY SOLVABLE POTENTIALS
PHYSICS LETTERS A 302(5-6), 234-241 (2002)
53. **SAMSONOV, BF; STANCU, F.**
PHASE EQUIVALENT CHAINS OF DARBOUX TRANSFORMATIONS IN
SCATTERING THEORY
PHYSICAL REVIEW C 66(3), - (2002)
54. **FERNANDEZ, DJ; MIELNIK, B; ROSAS-ORTIZ, O; SAMSONOV, BF.**
NONLOCAL SUPERSYMMETRIC DEFORMATIONS OF PERIODIC POTENTIALS
JOURNAL OF PHYSICS A-MATHEMATICAL AND GENERAL 35(19), 4279-4291
(2002)
55. **DEBERGH, N; VAN DEN BOSSCHE, B; SAMSONOV, BF.**
DARBOUX TRANSFORMATIONS FOR QUASI-EXACTLY SOLVABLE
HAMILTONIANS
INTERNATIONAL JOURNAL OF MODERN PHYSICS A 17(11), 1577-1587 (2002)
56. **DEBERGH, N; PECHERITSIN, AA; SAMSONOV, BF; VAN DEN BOSSCHE, B.**
DARBOUX TRANSFORMATIONS OF THE ONE-DIMENSIONAL STATIONARY
DIRAC EQUATION
JOURNAL OF PHYSICS A-MATHEMATICAL AND GENERAL 35(14), 3279-3287
(2002)
57. **FERNANDEZ, CDJ; MIELNIK, B; ROSAS-ORTIZ, O; SAMSONOV, BF.**
THE PHENOMENON OF DARBOUX DISPLACEMENTS
PHYSICS LETTERS A 294(3-4), 168-174 (2002)
58. **BAGROV, V.G.; SAMSONOV, B.F..**
ON IRREDUCIBLE SECOND-ORDER DARBOUX TRANSFORMATIONS
RUSSIAN PHYSICS JOURNAL 45(1), 27 (2002)
59. **SAMSONOV, B.F.; PECHERITSYN, A.A..**
THE DARBOUX TRANSFORMATION FOR THE ONE-DIMENSIONAL
STATIONARY DIRAC EQUATION WITH A PSEUDOSCALAR POTENTIAL
RUSSIAN PHYSICS JOURNAL 45(1), 13 (2002)
60. **SAMSONOV, B.F.; PECHERITSYN, A.A..**
THE DARBOUX TRANSFORMATION FOR THE ONE-DIMENSIONAL
STATIONARY DIRAC EQUATION WITH A SCALAR POTENTIAL
RUSSIAN PHYSICS JOURNAL 45(1), 74 (2002)
61. **FERNANDEZ, CDJ; MIELNIK, B; ROSAS-ORTIZ, O; SAMSONOV, BF.**
NONLOCAL SUSY DEFORMATIONS OF PERIODIC POTENTIALS
J. PHYS. A: MATH. GEN 35, 4279 (2002)
62. **SAMSONOV, BF.**
ON PERIODIC CONTINUATION OF SOLITON POTENTIALS BEYOND A BOUNDED

INTERVAL

EUROPEAN JOURNAL OF PHYSICS 22(4), 305-313 (2001)

63. **SAMSONOV, BF; SHEKOYAN, LA.**
SUPERSYMMETRY OF THE NONSTATIONARY SCHRODINGER EQUATION AND
TIME-DEPENDENT EXACTLY SOLVABLE QUANTUM MODELS
PHYSICS OF ATOMIC NUCLEI 63(4), 657-660 (2000)
64. **SAMSONOV, BF.**
COHERENT STATES FOR TRANSPARENT POTENTIALS
JOURNAL OF PHYSICS A-MATHEMATICAL AND GENERAL 33(3), 591-605 (2000)
65. **SAMSONOV, BF.**
NEW POSSIBILITIES FOR SUPERSYMMETRY BREAKDOWN IN QUANTUM
MECHANICS AND SECOND-ORDER IRREDUCIBLE DARBOUX
TRANSFORMATIONS
PHYSICS LETTERS A 263(4-6), 274-280 (1999)
66. **SAMSONOV, B.F..**
ON THE N-TH ORDER DARBOUX TRANSFORMATION
RUSS. MATH. (IZ. VUZ) 43(6), 62 (1999)
67. **SAMSONOV, BF.**
COHERENT STATES OF POTENTIALS OF SOLITON ORIGIN
JOURNAL OF EXPERIMENTAL AND THEORETICAL PHYSICS 87(6), 1046-1052
(1998)
68. **SAMSONOV, BF.**
DISTORTION OF A PHASE SPACE UNDER THE DARBOUX TRANSFORMATION
JOURNAL OF MATHEMATICAL PHYSICS 39(2), 967-975 (1998)
69. **BAGROV, V.G.; SAMSONOV, B.F.; SHEKOYAN, L.A..**
COHERENT STATES OF NONSTATIONARY SOLITON POTENTIALS
RUSSIAN PHYSICS JOURNAL 41(1), 60 (1998)
70. **BAGROV, VG; SAMSONOV, BF.**
DARBOUX TRANSFORMATION AND ELEMENTARY EXACT SOLUTIONS OF THE
SCHRODINGER EQUATION
PRAMANA-JOURNAL OF PHYSICS 49(6), 563-580 (1997)
71. **SAMSONOV, BF.**
SUPERSYMMETRY AND SUPERCOHERENT STATES OF A NONRELATIVISTIC
FREE PARTICLE
JOURNAL OF MATHEMATICAL PHYSICS 38(9), 4492-4503 (1997)
72. **BAGROV, VG; SAMSONOV, BF.**
DARBOUX TRANSFORMATION OF THE SCHRODINGER EQUATION
PHYSICS OF PARTICLES AND NUCLEI 28(4), 374-397 (1997)
73. **SAMSONOV, BF.**
TIME-DEPENDENT PARASUPERSYMMETRY IN QUANTUM MECHANICS
MODERN PHYSICS LETTERS A 11(26), 2095-2104 (1996)
74. **SAMSONOV, BF.**
NEW FEATURES IN SUPERSYMMETRY BREAKDOWN IN QUANTUM
MECHANICS
MODERN PHYSICS LETTERS A 11(19), 1563-1567 (1996)
75. **BAGROV, VG; SAMSONOV, BF.**
COHERENT STATES OF INHARMONIC OSCILLATORS WITH
QUASIEQUIDISTANT SPECTRA
ZHURNAL EKSPERIMENTALNOI I TEORETICHESKOI FIZIKI 109(4), 1105-1117
(1996)
76. **BAGROV, VG; SAMSONOV, BF.**
COHERENT STATES FOR ANHARMONIC OSCILLATES HAMILTONIANS WITH
EQUIDISTANT AND QUASI-EQUIDISTANT SPECTRA
JOURNAL OF PHYSICS A-MATHEMATICAL AND GENERAL 29(5), 1011-1023
(1996)

77. **BAGROV, VG; SAMSONOV, BF.**
SUPERSYMMETRY OF A NONSTATIONARY SCHRODINGER EQUATION
PHYSICS LETTERS A 210(1-2), 60-64 (1996)
78. **BAGROV, V.G.; SAMSONOV, B.F..**
COHERENT STATES OF ANHARMONIC OSCILLATORS WITH A
QUASIEQUIDISTANT SPECTRUM
JOURNAL OF EXPERIMENTAL AND THEORETICAL PHYSICS 82(4), 593 (1996)
79. **SAMSONOV, BF.**
ON THE EQUIVALENCE OF THE INTEGRAL AND THE DIFFERENTIAL EXACT
SOLUTION GENERATION METHODS FOR THE ONE-DIMENSIONAL
SCHRODINGER EQUATION
JOURNAL OF PHYSICS A-MATHEMATICAL AND GENERAL 28(23), 6989-6998
(1995)
80. **BAGROV, VG; SAMSONOV, BF.**
DARBOUX TRANSFORMATION, FACTORIZATION, AND SUPERSYMMETRY IN
ONE-DIMENSIONAL QUANTUM MECHANICS
THEORETICAL AND MATHEMATICAL PHYSICS 104(2), 1051-1060 (1995)
81. **BAGROV, V.G.; SAMSONOV, B.F.; SHEKOYAN, L.A..**
DARBOUX TRANSFORMATION FOR THE NONSTEADY SCHRODINGER
EQUATION
RUSSIAN PHYSICS JOURNAL 38(7), 706 (1995)
82. **SAMSONOV, B.F.; OVCHAROV, I.N..**
DARBOUX TRANSFORMATION AND EXACTLY SOLVABLE POTENTIALS WITH
QUASI-EQUIDISTANT SPECTRUM
RUSSIAN PHYSICS JOURNAL 38(8), 765 (1995)
83. **SAMSONOV, B.F.; OVCHAROV, I.N..**
SOME PROPERTIES OF HIGHER-ORDER DARBOUX TRANSFORMATIONS
RUSSIAN PHYSICS JOURNAL 38(7), 651 (1995)
84. **SAMSONOV, B.F.; OVCHAROV, I.N..**
DARBOUX TRANSFORMATION AND NONCLASSICAL ORTHOGONAL
POLYNOMIALS
RUSSIAN PHYSICS JOURNAL 38(4), 378 (1995)
85. **BAGROV, V. G.; SAMSONOV, B. F..**
DARBOUX TRANSFORMATIONS OF THE SCHROEDINGER EQUATION
PHYS. PART. NUCL. LETT. 104(2), 356 (1995)
86. **BAGROV, V.G.; OVCHAROV, I.N.; SAMSONOV, B.F..**
GAMES WITH THE SCHRODINGER EQUATION
JOURNAL OF THE MOSCOW PHYSICAL SOCIETY 5(3), 191 (1995)
87. **SAMSONOV, B.F.; OVCHAROV, I.N..**
POTENTIALS REDUCING THE ONE-DIMENSIONAL SCHRODINGER EQUATION
TO THE MATHIEU EQUATION
RUSSIAN PHYSICS JOURNAL 37(6), 574 (1994)
88. **BAGROV, VG; VERKHOTUROV, VI; GRAFODATSKII, OS; SAMSONOV, BF;
SIMANCHUK, VI.**
SCATTERING OF ELECTROMAGNETIC-FIELDS ON A CYLINDER - HIGH-
FREQUENCY ASYMPTOTICS OF INTERNAL FIELD
IZVESTIYA VYSSHIKH UCHEBNYKH ZAVEDENII FIZIKA 34(8), 100-103 (1991)
89. **BAGROV, VG; SAMSONOV, BF; SHAPOVALOV, AV; SHIROKOV, IV.**
COMPLETE-SETS OF SYMMETRY OPERATORS INCLUDING OPERATOR OF 2ND-
ORDER AND PROBLEM OF SEPARATION OF VARIABLES IN WAVE-EQUATION
IZVESTIYA VYSSHIKH UCHEBNYKH ZAVEDENII FIZIKA 34(4), 115-119 (1991)
90. **BAGROV, VG; SAMSONOV, BF; SHAPOVALOV, AV.**
ON THE SYMMETRY OF SCHROEDINGER EQUATION
IZVESTIYA VYSSHIKH UCHEBNYKH ZAVEDENII FIZIKA 34(4), 120-123 (1991)
91. **BAGROV, VG; SAMSONOV, BF; SHAPOVALOV, AV.**
SEPARATION OF VARIABLES IN A WAVE-EQUATION (1.1)-TYPE SETS AND

SCHROEDINGER EQUATION

- IZVESTIYA VYSSHIKH UCHEBNYKH ZAVEDENII FIZIKA 34(2), 44-48 (1991)
92. **BAGROV, VG; SAMSONOV, BF; SHAPOVALOV, AV.**
SEPARATION OF VARIABLES IN WAVE-EQUATION - (1.1)-TYPE SETS AND SU
(1.2) ALGEBRA
IZVESTIYA VYSSHIKH UCHEBNYKH ZAVEDENII FIZIKA 34(2), 102-105 (1991)
93. **BAGROV, VG; SAMSONOV, BF; SHAPOVALOV, AV.**
SUBALGEBRAS WITH NONTRIVIAL CENTER OF SCHROEDINGER ALGEBRA
IZVESTIYA VYSSHIKH UCHEBNYKH ZAVEDENII FIZIKA 33(7), 5-9 (1990)
94. **BAGROV, VG; SAMSONOV, BF; SHAPOVALOV, AV.**
FREE SCHROEDINGER EQUATION AND WAVE ONE
IZVESTIYA VYSSHIKH UCHEBNYKH ZAVEDENII FIZIKA 33(7), 59-64 (1990)
95. **BAGROV, VG; SAMSONOV, BF; SHAPOVALOV, AV; SHIROKOV, IV.**
SUBALGEBRAS OF CONFORMAL-GROUP ALGEBRA WITH NONTRIVIAL
CENTER
IZVESTIYA VYSSHIKH UCHEBNYKH ZAVEDENII FIZIKA 33(5), 45-48 (1990)
96. **BAGROV, VG; SAMSONOV, BF; SHAPOVALOV, AV; SHIROKOV, IV.**
COMMUTATIVE SUBALGEBRAS OF 3 1ST ORDER SYMMETRY OPERATORS
AND SEPARATION OF VARIABLES IN A WAVE-EQUATION
IZVESTIYA VYSSHIKH UCHEBNYKH ZAVEDENII FIZIKA 33(5), 79-84 (1990)
97. **BAGROV, VG; SAMSONOV, BF; SHAPOVALOV, AV; SHIROKOV, IV.**
IDENTITIES ON SOLUTIONS OF THE WAVE-EQUATION IN THE ENVELOPING
ALGEBRA OF THE CONFORMAL-GROUP
THEORETICAL AND MATHEMATICAL PHYSICS 83(1), 347-353 (1990)
98. **KIRNOS, VN; SAMSONOV, BF; CHEGLOKOV, YI.**
CALCULATION OF DIATOMIC-MOLECULES BY MO LCDO METHOD - EXCITED-
STATES OF MOLECULES IN FROZEN CORE APPROXIMATION -
HETERONUCLEAR CASE
IZVESTIYA VYSSHIKH UCHEBNYKH ZAVEDENII FIZIKA 31(10), 106-108 (1988)
99. **KIRNOS, VN; SAMSONOV, BF; CHEGLOKOV, YI.**
CALCULATION OF DIATOMIC-MOLECULES BY MO LCDO METHOD - EXCITED-
STATES OF SOME HOMONUCLEAR MOLECULES AND IONS
IZVESTIYA VYSSHIKH UCHEBNYKH ZAVEDENII FIZIKA 30(8), 53-56 (1987)
100. **KIRNOS, VN; SAMSONOV, BF; CHEGLOKOV, YI.**
UNIVERSAL BASIS FOR 2-CENTER FUNCTIONS - TEST CALCULATION FOR
SOME DIATOMIC-MOLECULES AND IONS
IZVESTIYA VYSSHIKH UCHEBNYKH ZAVEDENII FIZIKA 29(11), 74-79 (1986)
101. **KIRNOS, VN; SAMSONOV, BF; CHEGLOKOV, YI.**
CALCULATION OF BINARY MOLECULES BY THE MO LCDO METHOD -
DOUBLY EXCITED-STATES OF A MOLECULE-H₂
IZVESTIYA VYSSHIKH UCHEBNYKH ZAVEDENII FIZIKA 29(7), 31-34 (1986)
102. **KIRNOS, VN; SAMSONOV, BF; CHEGLOKOV, YI.**
CALCULATION OF 2-ATOMIC MOLECULES BY MO LCDO METHOD - 1,3-SIGMA-
G+(1S-SIGMA-G, 2S-SIGMA-G), 1,3-SIGMA-G+(1S-SIGMA-G, 3S-SIGMA-G), 1,3-
SIGMA-G+(1S-SIGMA-G, 4S-SIGMA-G) STATES OF MOLECULES H-2
IZVESTIYA VYSSHIKH UCHEBNYKH ZAVEDENII FIZIKA 28(2), 109-111 (1985)
103. **KIRNOS, VN; SAMSONOV, BF; CHEGLOKOV, YI.**
CALCULATION OF DIATOMIC-MOLECULES BY THE MO-LKDO METHOD - "1,3-
SIGMA-U+(1S-SIGMA-G, 2P-SIGMA-U) AND SIGMA-3+G(1S-SIGMA-G, 2S-SIGMA-
G) H₂ MOLECULE-STATES
IZVESTIYA VYSSHIKH UCHEBNYKH ZAVEDENII FIZIKA 27(11), 103-104 (1984)
104. **SAMSONOVA, LG; LEVIN, MB; SAMSONOV, BF.**
THE CALCULATION OF RADIATIVE ENERGY-TRANSFER COEFFICIENTS IN 2-
COMPONENT SOLUTIONS
IZVESTIYA VYSSHIKH UCHEBNYKH ZAVEDENII FIZIKA 27(1), 112-114 (1984)

105. **ZELICHENKO, VM; SAMSONOV, BF; NYAVRO, AV.**
THE PROBLEM OF TERM GAPS IN ATOMIC CALCULATIONS
OPTIKA I SPEKTROSKOPIYA 55(5), 815-819 (1983)
106. **SAMSONOV, BF.**
CALCULATION OF DIATOMIC-MOLECULES BY THE MO LCDO METHOD -
EXCITED-STATES OF H-2+
IZVESTIYA VYSSHIKH UCHEBNYKH ZAVEDENII FIZIKA 26(8), 115-117 (1983)
107. **SAMSONOV, BF.**
CALCULATION OF DIATOMIC-MOLECULES BY MO LCDO METHOD - 1-SIGMA-
G AND 2P-SIGMA-U STATES OF H-2(+) AND 1S-SIGMA STATE OF HEH2+
IZVESTIYA VYSSHIKH UCHEBNYKH ZAVEDENII FIZIKA 25(10), 117-119 (1982)
108. **SAMSONOV, BF; CHEGLOKOV, EI.**
VARIATION METHOD OF A SELF-CONGRUENT FIELD FOR THE EXCITED-
STATES, LIMITED BY ORTHOGONALITY CONDITIONS
IZVESTIYA AKADEMII NAUK SSSR SERIYA FIZICHESKAYA 45(12), 2432-2435
(1981)
109. **ZELICHENKO, VM; SAMSONOV, BF; CHEGLOKOV, EI.**
ION CORE APPROXIMATION TO CALCULATE EXCITED-STATES OF ATOMS
IZVESTIYA VYSSHIKH UCHEBNYKH ZAVEDENII FIZIKA (6), 71-77 (1980)
110. **ZELICHENKO, VM; SAMSONOV, BF; CHEGLOKOV, EI; KOSTAREVA, OG.**
DOUBLY EXCITED-STATES IN 2-ELECTRON IONS IN ONE-ELECTRON
APPROXIMATION
OPTIKA I SPEKTROSKOPIYA 49(3), 425-429 (1980)
111. **ZELICHENKO, VM; SAMSONOV, BF; CHEGLOKOV, EI.**
EXCITED 2S STATES IN LI-LIKE IONS WITH CONSIDERATION FOR ELECTRON
CORRELATION IN THE FRAME
OPTIKA I SPEKTROSKOPIYA 48(4), 639-643 (1980)
112. **CHEGLOKOV, EI; TERPUGOVA, AF; SAMSONOV, BF; KILIN, VA.**
INVESTIGATION OF GROUND AND SOME LOW-LYING EXCITED-STATES OF
FORMALDEHYDE MOLECULE IN CNDO-VN-1 APPROXIMATION
IZVESTIYA VYSSHIKH UCHEBNYKH ZAVEDENII FIZIKA (6), 43 (1978)
113. **ZELICHENKO, VM; SAMSONOV, BF; CHEGLOKOV, EI.**
ACCOUNT OF CORE RELAXATION EFFECTS AND ORTHOGONALITY
CONDITIONS IN CALCULATIONS OF ATOMIC EXCITED-STATES
IZVESTIYA VYSSHIKH UCHEBNYKH ZAVEDENII FIZIKA (11), 104 (1978)