

# Asterios Jannussis

## Publications

1. Beiträge zur Theorie der Festkörperelektronen in ausseren homogenen Magnetfeld Frankfurt Main institute für theoretischen Physik (1963)  
**Jannussis A.**  
Ph. D. Thesis publised in Physica Status Solidi paper 6
2. Thermisches Neutronenspectrum in Absorbierenden Medien  
**Jannussis A.**  
Atomkernenergie **8J** (1963) 52
3. Doppler - Verbreilerung  
**Jannussis A.**  
Bulletin de la Societe Mathematique de Grece **4** (1963) 127
4. Bestimmung der Thermishen Nutzung mit Hilfe der Transportetheorie  
**Jannussis A.**  
Bulletin de la Societe Mathematique de Grece **4**(1963) 132
5. Ein neuer beitreg zur theorie der Gitterelektronen im ausseren homogenen Magnetic field  
**Jannussis A.**  
Phys.Stat.Sol. **6** (1964)617
6. Diamagnetismus von fest freien elektronen mit Hilfe der methode der Dischtenmatrix  
**Jannussis A.**  
Phys.Stat.Sol. **7** (1964)765
7. The neutron spectrum  
**Jannussis A.**, Theophillou A. and Tsilimigras P.  
Nukleonik, Band **6** (1964) 386

8. Die relativistische Bewegung eines Elektrons im auseren homogenen Magnetfeld  
**Jannussis A.**  
 Zeitschrift fur Physik A Hadrons and Nuclei, Volume **190**, Number 2  
 June, 1966
9. The Wannier function of the lattice electron in a Uniform Magnetic Field  
**Jannussis A.**  
 Z. Naturf. **21**(1963) 1577
10. Näherungsmethode für die berechnung der Dichtenmatrix von Gitter-electronen  
**Jannussis A.**  
 Z. Naturf. **22a** (1967)598
11. Solution of the Integral Equations for the Many - Body Problem in One Dimension.  
**A. D. Jannussis.**  
 Phys. Rev. Lett. **21**, 523 (1968)
12. Berechnung und Messung des Neutronenflusses im Demokritos Reaktor  
 Jawas G. **Jannussis A.**  
 Atompraxis **15** (1969)366
13. Solution of the Dirac equation for the rectilinear periodic motion of an electron  
**Jannussis A.**  
 Z.Naturf. **24a** (1969)344
14. On Some properties of the Schrauben functions in connection with the magnetic operators  
**Jannussis A.** and Tsilimigras P.  
 Z. Naturf **24A** (1969)340
15. Diamagnetism of free elektons in Uniform magnetic and electric fields  
**Jannussis A.**  
 Phys.Stat.Sol. **36** (1969)k17

16. The Ground State Energy of Anisotropic Spin - Spin Interaction in one - dimensional Case.  
**Jannussis A.**  
Z. Naturf. **25a** (1970)127
17. One dimensional N - body problem with  $\delta$ - function  
**Jannussis A.**  
Z. Naturf. **25a** (1970)127
18. On some properties of the operators of the Generalized angular momentum  
**Jannussis A.** and Ktenas P.  
Bull, de l'Istitute de Mathematique Vol.**XV** (1972)161 Academy Bulgare des Sciences
19. The behaviour of the Lattice electron in a uniform magnetic field  
**Jannussis A.** and Papaloucas  
Z. Naturf. **28a** (1973)701
20. Coherent States and magnetic operators  
**Jannussis A.** and Papaloucas  
Z. Naturf. **28a** (1973)701
21. Remarks on the Poissons equation of motion  
**Jannussis A.** Papaloucas L.  
Phys.Lett. **46A** (1973)161
22. Green's Functions of the lattice electron with or without uniform external magnetic field  
Goudaroulis G. **Jannussis A.**  
J.Phys.Soc.Japan **36** (1974)388
23. An approximate solution of the Bloch equation  
Andreou V. and **Jannussis A.**  
Fisica **7** (1975)177

24. Eigenfunctions and eigenvalues of the Wigner operator  
**Jannussis A.** and Patargias N.  
 Phys.Lett. **53A** (1974)357
25. Relativistic motion of an electron in uniform external electric and magnetic fields  
 Hadjikonstantinou P. and **Jannussis A.**  
 Fisika **7** (1975)177
26. Basic Theorems in Operator Algebra  
**Jannussis A.** Streklas A. Sourlas D. and Vlachos K.  
 Congress on Applied Mathematics. Proceedings (1976), Thessaloniki
27. The Density Matrix in Phase Space  
 Brodimas G. **Jannussis A.** and Patargias N.  
 Lett.Nuovo Cim. **17** (1976)19
28. Relativistic Wigner operator and its distribution  
**A. Jannussis**, A. Streklas, D. Sourlas and K. Vlachos  
 Lettere Al Nuovo Cimento Series 2, Volume **18**, Number 11 March, (1977) 349 - 351
29. Generalized integrals of density matrices and Green's functions  
 Andreou V. **Jannussis A.** and Goudaroulis G.  
 Fisica 9 (1977) 153
30. Wigner operator and Wigner distribution  
**Jannussis A.** and Patargias N.  
 Serdica Bulgaricae Mathematicae Publ. **3** (1977)281
31. Phase Space and the Wigner Equation  
**Jannussis A.** Patargias N. and Brodimas G.  
 Serdica Bulgaricae Mathematicae Publ. **3** (1977)288
32. Generalized Canonical Density Matrix  
 Goudaroulis G. and **Jannussis A.**  
 Fisica **9** (1977)31

33. On the equations of motion  
**A. Jannussis**, A. Streclas, D. Sourlas and K. Vlachos  
 Lettere Al Nuovo Cimento Series 2, Volume **19**, Number 5 (1977) 163  
 - 164
34. Some Properties of Commutators and the Equations of Motion  
**A. Jannussis**, A. Streclas, D. Sourlas and K. Vlachos  
 Phys. Scr. **15** No 3 (1977) 163 - 166
35. Generalized density matrices and Wigners distributions  
 G. Goudaroulis, **A. Jannussis** and V. Papatheou  
 Lettere Al Nuovo Cimento Series 2, Volume **19**, Number 16 August,  
 1977
36. Effective Hamiltonian for Bloch electrons in Uniform Electric and Mag-  
 netic fields  
**Jannussis A.** Papatheou V. Brodimas G. and Goudaroulis G.  
 Phys. Let. **61A** (1977)347
37. On some properties of Weyl relation  
**A. Jannussis**, A. Streclas, D. Sourlas and K. Vlachos  
 Lettere Al Nuovo Cimento Series 2, Volume **20**, Number 13 (1977) 238  
 - 240
38. Wigner operators of angular momentum in phase space  
**A. Jannussis**, A. Streclas, N. Patargias, D. Sourlas and K. Vlachos  
 Lettere Al Nuovo Cimento Series 2, Volume **20**, Number 7 (1977) 238  
 - 240
39. Green's Functions in Phase Space  
**Jannussis A.** Patargias N. and Brodimas G.  
 Fisika **10** (1978)81
40. The motion of an electron in one dimensional Periodic Potentials under  
 the influence of a Uniform Electric and Magnetic Field  
**Jannussis A.** Papatheou V. and Tsilimigras P.  
 Phys.Stat.Sol **88** (1978)341

41. Motion of a free - electron in a uniform Magnetic and Electric Fields  
**Jannussis A.** Patargias N. and Ioannidou E.  
 Fisika **10** (1978)75
42. New Creation and Annihilation operators in Phase Space  
**Jannussis A.** Patargias N. and Brodimas G.  
 J.Phys.Soc.Japan **45** (1978)336
43. Remarks on Liouville Equation  
**Jannussis A.** Patargias N. and Papaloucas L.  
 Fisica Scr. **18** (1976)41
44. Ordering of the Exponential of Quadratic Forms in Boson Operators  
 and Some Applications  
**A. Jannussis,** A. Streclas, N. Patargias, D. Sourlas and K. Vlachos  
 Phys. Scr. **18** No 1 (1978) 13 - 17
45. Some remarks on the quantum - mechanical representation  
**A. Jannussis** and P. Filippakis  
 Lettere Al Nuovo Cimento Series 2, Volume **23**, Number 4 September,  
 1978
46. Generalized coherent states and th  $U(n)$  Lie group  
**Jannussis A.** Patargias N. and Papaloucas N.  
 J.Phys.Soc.JNP **47** (1979)1003
47. Propagation with friction in Quantum Mechanics  
**Jannussis A.** Brodimas G. and Streclas A.  
 Phys.Lett. **74A** (1979) 6 - 10
48. New creation and annihilation operators in Gauss plane and Quantum  
 friction  
**Jannussis A.** Brodimas G. and Papaloucas L.  
 Phys.Lett. **71A** (1979)301
49. Quantum friction in a uniform magnetic field  
**Jannussis A.** Brodimas G. and Streclas A.  
 Lett.Nuovo Cim. **25** (1979) 283 - 286

50. Study of the Stark and Zeeman effects in parabolic coordinates  
**Jannussis A.** Leodaris A. and Brodimas G.  
 Phys.Lett. **71A** (1979)205
51. Generalized Glauber Operators and their Coherent States  
**Jannussis A.**  
 Group Theoretical Methods in Physics. Academy of Sciences CCCP.  
 Proceedings of the international seminar, Zvenigotod, (1979) p. 308
52. Connection between generalized Glauber operators and two - photon  
 coherent states of the radiation field  
**A. D. Jannussis**, N. Patargias and L. C. Papaloucas  
 Lettere Al Nuovo Cimento Series 2, Volume **29**, Number 3 September,  
 1980
53. Quantum dissipative system and the Caldirola - Montaldi equation  
**A. Jannussis**, A. Leodaris, P. Filippakis and T. Filippakis  
 Lettere Al Nuovo Cimento Series 2, Volume **29**, Number 9 November,  
 1980
54. Eigenfunctions and Eigenvalues of the Q Differential Operators.  
**A.D. Jannussis**, P.D. Siafarikas (Patras U.) , L.C. Papaloucas (Athens  
 U.)  
 Hadronic J.**3**: (1980)1622 - 1632.
55. New gauge transformation for a generalized quantum representation  
**A. Jannussis**, V. Papatheou and P. Filippakis  
 Lettere Al Nuovo Cimento Series 2, Volume **28**, Number 14 August,  
 1980
56. Some remarks on the discrete - time Schrödinger equation  
**A. Jannussis**, A. Leodaris, V. Papatheou and V. Zisis  
 Lettere Al Nuovo Cimento Series 2, Volume **29**, Number 8 October,  
 1980
57. Commutation relations and coherent states  
**A. D. Jannussis**, P. Filippakis and L. C. Papaloucas  
 Lettere Al Nuovo Cimento Series 2, Volume **29**, Number 15 December,  
 1980

58. Quantum friction in phase space  
**Jannussis A.** Fillipakis P. and Fillipakis T.  
 Physica **102A**( 1980)561
59. Statistical mechanics and the quantum friction  
**Jannussis A.** Papatheou V. and Vlachos K.  
 Phys.Lett.A **77** (1980)112
60. One dimensional wave function for the effective Hamiltonian on non -  
 local potential  
 Papaloucas L. and **Jannussis A.**  
 J.Phys.Soc. Japan **48** (1960)669
61. The Lie algebra of Wigner Operators of Angular Momentum  
 Sourlas D. **Jannussis A.** and Streclas A.  
 Hadronic J. **3** (1980) 1431 - 1445
62. Remarks on the q - quantization  
**A. Jannussis,** G. Bbodimas, D. Sourlas and V. Zisis  
 Lettere Al Nuovo Cimento Series 2, Volume **30**, Number 4 January,  
 1981
63. Quantization of mass coordinate - dependent hamiltonian  
**A. Jannussis,** P. Filippakis, Th. Filippakis, K. Vlachos and V. Zisis  
 Lettere Al Nuovo Cimento Series 2, Volume **31**, Number 8 June, 1981  
 PDF (186.4 KB)
64. Quantum friction and the Caldirola - Montaldi procedure  
**A. Jannussis,** G. N. Brodimas, A. D. Leodaris, V. Papatheou and V.  
 Zisis  
 Lettere Al Nuovo Cimento Series 2, Volume **30**, Number 9 February,  
 1981
65. Classical partition function of N interacting particles in the new statis-  
 tical mechanics  
**A. Jannussis,** A. Leodaris, G. Brodimas, V. Papatheou and K. Vla-  
 chos  
 Lettere Al Nuovo Cimento Series 2, Volume **30**, Number 14 April, 1981



66. Para - Bose operators  
G. Brodimas, **A. Jannussis**, D. Sourlas, V. Zisis and P. Pouloupoulos  
Lettere Al Nuovo Cimento Series 2, Volume **31**, Number 5 May, 1981
67. Perturbation theory for the solution of the Caldirola - Montaldi equation  
**A. Jannussis**, G. Brodimas, V. Papatheou, A. Leodaris and V. Zisis  
Lettere Al Nuovo Cimento Series 2, Volume **31**, Number 15 August, 1981
68. Statistical mechanics of a Confinement electron Gas in a uniform Electromagnetic field  
Vlachos K. and **Jannussis A.**  
Physica **107A** (1981)598
69. Fermi - Dirac statistics for free electrons in uniform electric and magnetic fields  
**A. D. Jannussis**, A. Streklas and K. Vlachos  
Physica A: Statistical and Theoretical Physics, Volume **107**, Issue 3, July 1981, Pages 575 - 586
70. Wigner representation of Bloch electrons in Uniform Fields  
**Jannussis A.** Streclas A. Vlachos K.  
Physica **107A** (1981) 587 - 597
71. Quantum friction in Periodic Potential  
**Jannussis A.** Leodaris A. Papatheou V. Patargias N. and Vlachos K.  
Physica **106A** (1981)611
72. Commutation relations and quantum mechanics  
G. Brodimas, **A. Jannussis**, D. Sourlas and V. Zisis  
Lettere Al Nuovo Cimento Series 2, Volume **30**, Number 14 April, 1981
73. Coherent states for general potentials  
**A. Jannussis**, V. Papatheou, N. Patargias and L. Papaloucas  
Lettere Al Nuovo Cimento Series 2, Volume **31**, Number 11 July, 1981

74. Generalized q bose operators  
**A. Jannussis**, G. Brodimas, D. Sourlas, L. Papaloucas, P. Pouloupoulos and P. Siafarikas  
 Lettere Al Nuovo Cimento Series 2, Volume **34**, Number 12 July, 1982
75. Foundation of the Lie - admissible Fock Space of the Hadronic Mechanics  
**Jannussis A.** Brodimas G. Sourlas D. Streklas A. and Siafarikas P. Papaloucas I. and Tsangas N.  
 Hadronic J. **5** (1982) 1923 - 1947
76. Scattering for non - local potentials in one dimension  
 Papaloucas I. **Jannussis A.**  
 J.Phys.Soc.Japan **51** (1982)3831
77. Remarks on the complex time of physical phenomena  
**A. D. Jannussis** and V. Papatheou  
 Lettere Al Nuovo Cimento Series 2, Volume **35**, Number 17 December, 1982
78. New interpretation of the scalar product in Hilbert space  
**A. D. Jannussis**  
 Lettere Al Nuovo Cimento Series 2, Volume **35**, Number 5 October, 1982
79. Applications of the positive definite Wigner distribution function  
**A. D. Jannussis**, A. Leodaris, X. Patargias, T. Philippakis, P. Philippakis, K. Vlachos and H. Ioannidou  
 Lettere Al Nuovo Cimento Series 2, Volume **34**, Number 14 July, 1982
80. Some remarks on the Caldirola - Montaldi equation  
**A. Jannussis**, A. Streclas, A. Leodaris, N. Patargias, V. Papatheou, P. Filippakis, T. Filippakis, V. Zisis and N. Tsangas  
 Lettere Al Nuovo Cimento Series 2, Volume **34**, Number 18 (1982) 571 - 574

81. Some remarks on the nonnegative quantum - mechanical distribution function  
**A. Jannussis**, N. Patargias, A. Leodaris, P. Filippakis, T. Filippakis, A. Streclas and V. Papatheou  
 Lettere Al Nuovo Cimento Series 2, Volume **34**, Number 18 August, 1982 533 - 558
82. Heisenberg equation of motion in the Caldirola - Montaldi Procedure  
**Jannussis A.** Leodaris A. Phillippakis T. Phillippakis F. and Zisis V.  
 Nuovo Cim. **678** (1982)161
83. Some properties of Q - analysis and applications to noncanonical Mechanics  
**Jannussis A.** Brodimas G. Sourlas D. Vlachos K. Siafarikas P. and Papaloucas L.  
 Hadronic J. **6** (1983)1653
84. Time non - canonical character of Hadronic Mechanics  
**Jannussis A.** Brodimas G. Pierris A. and Ioannidou H.  
 Hadronic J. **6** (1983)1641
85. Lie - admissible unification of dissipative Schrodinger equation  
**A. Jannussis**, G. Brodimas, V. Papatheou, G. Karayiannis, P. Panagopoulos and H. Ioannidou  
 Hadronic J. **6** (1983)1641
86. Lie - admissible unification of dissipative Schrodinger equation  
**A. Jannussis**, G. Brodimas, V. Papatheou, G. Karayiannis, P. Panagopoulos and H. Ioannidou  
 Lettere Al Nuovo Cimento Series 2, Volume **38**, Number 6 October, 1983
87. Generalized coherent states  
**A. Jannussis**, G. Karayiannis, P. Panagopoulos and G. Brodimas  
 Lettere Al Nuovo Cimento Series 2, Volume **38**, Number 5 October, 1983

88. Time Noncanonical Mechanics.  
**A.D. Jannussis**, G. Brodimas, V. Papatheou, H. Ioannidou  
 Hadronic J. **6**: (1983)623 - 649.
89. Q - algebras without interaction  
 Siafarikas P. **Jannussis A.** Brodimas G. and Papaloucas L.  
 Lett.Nuovo Cim. **37** (1983)119
90. The caldirola - montaldi procedure and the Q - analysis are noncanonical theories in time  
**A. D. Jannussis**, G. N. Brodimas, V. Papatheou and A. Leodaris  
 Lettere Al Nuovo Cimento Series 2, Volume **36**, Number 17 April, 1983
91. Time - dependent quadratic Hamiltonian and the Heisenberg uncertainty principle  
**A. Jannussis**, G. Karayannis, P. Panagopoylos, V. Papatheou, M. Simeonidis, D. Vavoygios, P. Siafarikas and V. Zisis  
 Lettere Al Nuovo Cimento Series 2, Volume **36**, Number 2 January, 1983
92. New Gauge Transformations for Quantum Dissipative Systems and the Lie - isotopic theory  
 Karayiannis G. **Jannussis A.** and Papaloucas L.  
 Hadronic J. **7** (1984)1342
93. Doupded and Coupled Oscillators  
**Jannussis A.** Phillippakis P. Phillippakis T. Papatheou V. Siafarikas P. Zisis V. and Tsangas N.  
 Hadronic J. **7** (1984)1515
94. Some Aspects of the Perturbation Theory in Hadronic Mechanics and the Hadronic Anarmonic Oscillator  
**Jannussis A.** Vavougios D.  
 Hadronic J. **7** (1984)947
95. Caldirola - montaldi theory for a finite - difference Dirac equation  
**A. Jannussis**  
 Il Nuovo Cimento B (1971 - 1996), Volume **84**, Number 1 November, 1984

96. Finite - difference approach in chemical reactions and their chaotic behaviour  
**A. Jannussis**, M. Theodoropoulou and G. Brodimas  
 Lettere Al Nuovo Cimento Series 2, Volume **41**, Number 5 September, 1984
97. Quantum Theory in Phase Space and Applications to Dissipative Systems  
**Jannussis A.**, Phillippakis P., Phillippakis T.  
 Hadronic J. **7** (1984)677
98. Quantum equations of motion in the finite - difference approach  
**A. Jannussis**  
 Lettere Al Nuovo Cimento Series 2, Volume **40**, Number 8 June, 1984
99. **Jannussis A.**, Karayiannis G., Panagopoulos P. Papatheou V., Simeonidis M., Vavougiou D., Siafarikas P. and Zisis V.  
 J. Phys.Soc.Japan **53** (1984)957
100. Connection between master equation and Lie - admissible formulation  
**A. Jannussis**  
 Lettere Al Nuovo Cimento Series 2, Volume **39**, Number 5 February, 1984
101. Polynomial invariant Measures for Maps on Unit interval  
 Ghikas D. and **Jannussis A.**  
 Z.Physik **55B** (1984)145
102. Difference equations in the Lie - admissible formulation  
**A. Jannussis**  
 Lettere Al Nuovo Cimento Series 2, Volume **42**, Number 3 February, 1985
103. Some remarks on the small - distance derivative model  
**A. Jannussis**  
 Il Nuovo Cimento B (1971 - 1996), Volume **90**, Number 1 November, 1985

104. Some remarks on quantum thermodynamics  
**A. Jannussis**  
 Lettere Al Nuovo Cimento Series 2, Volume **43**, Number 7 August, 1985
105. Landau creation and annihilation operators and the Schrauben eigenfunctions  
**A. Jannussis** and E. Skuras  
 Lettere Al Nuovo Cimento Series 2, Volume **44**, Number 2 September, 1985
106. Extension of the caldirola procedure in space  
**A. Jannussis** and V. Papatheou  
 Il Nuovo Cimento B (1971 - 1996), Volume **85**, Number 1 January, 1985
107. Statistical properties of one dimensional non - canonical oscillators  
 Mijatovic M. **Jannussis A.** and Streclas A.  
 Hadronic J. **8** (1985) 327 - 330
108. Some remarks on quantum - statistical mechanics with common time  
**A. Jannussis** and K. Tsoulias  
 Lettere Al Nuovo Cimento Series 2, Volume **43**, Number 7 August, 1985
109. Construction of the density matrix in the Lie - admissible formulation  
**A. D. Jannussis**, L. C. Papaloucas, P. I. Tsilimigras  
 Lettere Al Nuovo Cimento Series 2, Volume **42**, Number 2 January, 1985
110. Coherent states of the R - inherent quantum oscillator in the p - representation  
**A. Jannussis** and K. Tsoulias  
 Lettere Al Nuovo Cimento Series 2, Volume **42**, Number 6 March, 1985
111. Non - Canonical Quantum Statistical Mechanics  
**Jannussis A.**  
 Hadronic J. Supp. **1**(1985)576

112. New derivative Models for small Dimensions  
**Jannussis A.** Simeonidis M. and Karayannis G.  
 Hadronic J. Suppl. **1** (1985)239
113. Lie - isotopic lifting of conventional Lagrangian densities for some field models  
 Karayannis G. **Jannussis A.**  
 Hadronic J. **9** (1986)203
114. The R - inherent Quantum Mechanics of Hsu as a Particular Case of the Lie - isotopic Lifting Theory  
**Jannussis A.** Papaloucas L. Tsilimigras P. and Tsoulas K.  
 Hadronic J.Suppl. **2** (1985)498
115. Harmonic oscillator with complex frequency  
**A. Jannussis** and E. Skuras  
 Il Nuovo Cimento B (1971 - 1996), Volume **94**, Number 1 July, 1986  
 PDF (310.5 KB)
116. Eigenfunctions and eigenvalues of the squeeze operator in quantum optics  
**A. Jannussis** and E. Skuras  
 Il Nuovo Cimento B (1971 - 1996), Volume **95**, Number 1 September, 1986
117. The non - canonical harmonic oscillator in High Energy Physics  
**Jannussis A.** and Vavougiou D.  
 Hadronic J. **9** (1986)223
118. A new population growth map with variable coefficients  
**A. Jannussis** and M. Theodoropoulou  
 Il Nuovo Cimento B (1971 - 1996), Volume **92**, Number 1 March, 1986
119. Quantum Gravity In The Lie Admissible Formulation.  
**A.D. Jannussis**  
 Hadronic J.Suppl.**2**: (1986)458 - 478.

120. Some Properties of the Morse - Feshbach oscillator  
Mijatovic M. Trencovski K and **Jannussis A.**  
Hadronic J.Suppl. **2** (1986)578
121. Q - Model in High Energy Physics  
**Jannussis A.** Vavougiou D. and Leodaris A.  
Hadronic J.Suppl.**2** (1986)479
122. Bloch oscillations in uniform magnetic and electric fields  
**A. Jannussis**, E. Skuras and V. Papatheou  
Il Nuovo Cimento B (1971 - 1996), Volume **98**, Number 2 April, 1987
123. General properties of the squeezed states  
**A. Jannussis** and V. Bartzis II  
Nuovo Cimento B **100** (1987)633
124. New creation and annihilation operators as linear combination of Bose and Fermi operators  
**Jannussis A.** and Vavougiou D.  
Hadronic J. **10** (1987)75
125. Small - Distance derivative model in relativistic mechanics  
**Jannussis A.**  
Hadronic J. **10** (1987)79
126. Boltzmann Statistics of Quantum Friction  
Mijatovic M. **Jannussis A.** and Streklas A.  
Phys.Let. **122A** (1987) 31 - 35
127. Quantum Probabilities in Open Dissipative Systems: A Lie - admissible Formulation  
Veljanoski B. **Jannussis A.**  
Hadronic J. **10** (1987)53
128. Damped Harmonic Oscillator with Complex Coefficient of Friction  
Veljanoski B. and **Jannussis A.**  
Hadronic J. **10** (1987)193



129. Coherent and squeezed states in quantum optics  
**A. Jannussis** and V. Bartzis II  
 Nuovo Cimento B, Volume **102**, Number 1 (1988) 33.
130. Tight - binding model and Harpers equations are partial cases of the Caldirola - Montaldi procedure  
**A. Jannussis**, V. Papatheou and E. Skuras  
 Il Nuovo Cimento B (1971 - 1996), Volume **101**, Number 4 April, 1988
131. Algebraic Structure of linear and non linear model of open quantum systems  
**Jannussis A.** and Mignani R.  
 Physica **152A** (1988)469
132. Exact calculation of the squeezed states in the q - representation  
**Jannussis A.** and Bartzis V.  
 Phys.Lett. **A132** (1988)324
133. Review of recent studies on the Lie - admissible approach to quantum gravity  
**Jannussis A.**  
 Hadronic J. **11** (1988)1
134. Magnetoconductance oscillations and hall current for a two - dimensional electron gas with harmonic confining potential  
 G. Kliros and **A. Jannussis**  
 Il Nuovo Cimento D, Volume **10**, Number 10 October, 1988
135. Some remarks of the squeezed states  
 V. Bartzis, E. Vlahos and **A. Jannussis**  
 Il Nuovo Cimento B (1971 - 1996), Volume **103**, Number 5 May, 1989
136. Squeezed states in the Caldirola - Montaldi procedure  
**A. Jannussis** and D. Skaltsas  
 Il Nuovo Cimento B (1971 - 1996), Volume **104**, Number 1 July, 1989  
 PDF (461.4 KB)

137. Squeezed States in the Presence of a Time - Dependent Magnetic Field  
**Jannussis A.** Vlahos E. Skaltsas D. Kliros G. and Bartzis B.  
 Nuovo Cim. **104B** (1989)53
138. Lie - Admissible Structure of Universe  
**Jannussis A.**, Tsohantjis I.  
 Hadronic Mechanics and Nonpotential Interactions, Nova Science Publishers (1990) pages 1 - 18
139. Need for Mathematical Studies on Santilli's Lie - isotopic Relativities  
 Aringazin A. **Jannussis A.** Lopez D. Nishicka M. and Veljanoski B.  
 Algebras Groups and Geometries **7** (1990)211
140. Harmonic Oscillator with a Complex Parameter  
**Jannussis A.** and Skaltsas D.  
 Hadronic J. **12** (1990)89
141. Coherent and Squeezed States in the Presence of a Magnetic Field  
**Jannussis A.** Vlahos E. Skaltsas D. Kliros G. and Bartzis B.  
 Hadronic J. **13** (1990)435
142. Equivalence between Caldirola - Montaldi model and Lie - admissible complex time  
**Jannussis A.** Skaltsas D. Brodimas G.  
 Hadronic J. **13** (1990)415
143. A model for dissipative magnetotransport in the quantum Hall regime  
 G. S. Kliros and **A. Jannussis**  
 Il Nuovo Cimento D, Volume **12**, Number 6 June, 1990
144. On the theory of the integral quantized Hall effect  
 G. S. Kliros, E. Skuras and **A. Jannussis**  
 Il Nuovo Cimento D, Volume **12**, Number 7 July, 1990
145. Coherent and squeezed states in phase space  
**A. Jannussis**, V. Bartzis and E. Vlahos  
 Il Nuovo Cimento B (1971 - 1996), Volume **105**, Number 5 May, 1990

146. Some remarks on a scenario of supersymmetry in quantum mechanics  
**A. Jannussis**, I. Tsohantzis and D. Vavougiios  
 Il Nuovo Cimento B (1971 - 1996), Volume **105**, Number 10 October, 1990
147. Lie - admisible Complex Time and its Application to Quantum Gravity  
**Jannussis A.**  
 Hadronic J. **13** (1990)399
148. A Lie - Admissible Complex Time Model and Relativity theory  
**Jannussis A.**  
 Hadronic J. **13** (1990)425
149. Positive Wigner Distributin Function as the common Base of a new Creation and Annihilation Operators in Phase Space  
 Fillippakis T. Filippakis P. Vavougiios D. **Jannussis A.**  
 Hadronic J. **13** (1990)1
150. Quantum Groups and the Lie - admisible Q - algebra  
**Jannussis A.**  
 Hadronic J. **14** (1991)257
151. Quantum groups and Lie - admisible time evolution  
**A. Jannussis**, G Brodimas and R Mignani  
 J. Phys. A: Math. Gen. **24** No 14 (21 July 1991) L775 - L778
152. Quantum Group for linear combination of Bose and Fermi operators  
 Brodimas, G., Baskoutas, S., Vavougiios D., and **Jannussis, A.**  
 Hadronic Mechanics and non-potential interactions, Part II, Physics, Nova Science Publishers, (1991) 161 p.
153. Classical examples of Santilli's Lie - isotopic Generalization of Galilean Relativity in Closed Systmes with Non - Self - Adzoint Internal Forces  
**Jannussis A.** Mijatovic M. and Veljanoski B.  
 Physics Essays **4** (1991)202

154. Lie - admissible Q - algebra and the Pauli Exclusion Principle  
**Jannussis A.** Brodimas G. and Baskoutas S.  
 Hadronic J. **14** (1991)277 - 288
155. Bose realization of a non - canonical Heisenberg algebra  
 G Brodimas, **A. Jannussis** and R Mignani  
 J. Phys. A: Math. Gen. **25** No 7 (7 April 1992) L329 - L334
156. Quantum mechanics of the inverted Caldirola - Kanai oscillator  
 S. Baskoutas and **A. Jannussis**  
 Il Nuovo Cimento B, Volume **107**, Number 3 (1992) 255 - 267
157. Study of the Generalized Parametric Oscillator  
 Baskoutas S. **Jannussis A.** and Mignani F.  
 Phys.Lett. **161A** (1992)17 - 22
158. Quantum tunnelling effect for the inverted Caldirola - Kanai Hamiltonian  
 S Baskoutas and **A. Jannussis**  
 J. Phys. A: Math. Gen. **25** No 23 (7 December 1992) L1299 - L1304
159. Lie - admissible perturbation methods for open quantum systems  
**A. Jannussis**, R. Mignani and D. Skaltsas  
 Physica A: Statistical and Theoretical Physics, Volume **187**, Issues 3 - 4, 15 September 1992, Pages 575 - 588
160. Algebraic Inconsistencies of a Class of Equations for the Description of Open Systems and their Resolution via Lie - admissible Formulation  
**Jannussis A.** and Skaltsas D.  
 Annals de la Fondation Louis de Broglie **18** (1993)137
161. Lie - admissible von Neumann Equation and the Quantum Measurement Problem  
**Jannussis A.** and Skaltsas D.  
 Annals de la Fondation Louis de Broglie **18** (1993)275

162. Unitary Squeezing Operators  $U$  and  $W$  in the Schrödinger and Heisenberg Pictures  
 Vlahos E. and **Jannussis A.**  
 Nuovo Cim. **108B** (1993)33
163. Entire Solutions of a Second Order Linear Differential Equations  
 Ifantis E. Siafarikas P. and **Jannussis A.**  
 Complex Variables **22** (1993)23
164. Simple and Discrete Squeezed States  
**Jannussis A.**, Vlahos E. and Bartzis B.  
 Nuovo Cim. **108B** (1993)57
165. Irreversibility, Quantum Measurement Process and Entropy  
 Skaltsas D. and **Jannussis A.**  
 Physics Essays **7** (1994)15
166. Time evolution of Caldirola - Kanai oscillators  
 S. Baskoutas, **A. Jannussis** and R. Mignani  
 Il Nuovo Cimento B, Volume **108**, Number 9, (1993) 953 - 966
167. Some fundamental problematic aspects of Weinberg's nonlinear theory and their resolution via the hadronic generalization of quantum mechanics.  
**A. Jannussis**, R. Mignani, R.M. Santilli  
 PRINT - 91 - 0050 (IBR), Dec 1990. 40pp.
168. New deformed Heisenberg oscillator  
**A Jannussis**  
 J. Phys. A: Math. Gen. **26** No 5 (7 March 1993) L233 - L237
169. Tunnelling process for non - Hermitian systems: the complex - frequency inverted oscillator  
 S Baskoutas, **A Jannussis**, R Mignani and V Papatheou  
 J. Phys. A: Math. Gen. **26** No 17 (7 September 1993) L819 - L824

170. Quantum tunnelling effect of a damped and driven, inverted harmonic oscillator  
S Baskoutas, **A Jannussis** and R Mignani  
J. Phys. A: Math. Gen. **26** No 23 (7 December 1993) 7137 - 7147
171. Generalized Parametric Oscillator in Phase Space  
Baskoutas S. **Jannussis A.** Vlahos E. and Mignani R.  
Annals de la Fondation Louis de Broglie **19** (1994)311 - 316
172. Genotopic and Isotopic Structure of Quantum Groups  
**A. Jannussis**  
Proceedings of the Third Workshop on Symmetry Method in Physics.  
G. Pogosyan et all, Editors, Jnr, Dubna, Russia (1994).
173. Dissipative Tunneling of the inderted Caldirola - Kanai Oscillator  
Baskoutas S. **Jannussis A.** and Mignani R.  
J.Phys.A: Math. Gen. **27** (1994)2189 - 2196
174. Caldirola - Kanai Hamiltonian with complex friction coefficient  
P. Angelopoulou, S. Baskoutas, **A. Jannussis** and R. Mignani  
Il Nuovo Cimento B, Volume **109**, Number 11 (1994) 1221 - 1226
175. Two - parametric Quantum Groups with Noncanonical Commutation Relations  
Brodimas G. **Jannussis A.** Mignani R.  
Annals de la Fondation Louis de Broglie **19** (1994)33
176. Real Planck distribution for a complex Q - boson gas  
P Angelopoulou, S Baskoutas, L De Falco, **A. Jannussis** R Mignani  
and A Sotiropoulou  
J. Phys. A: Math. Gen. **27** No 17 (7 September 1994) L605 - L609
177. Q - Boson Oscillator Algebra with Complex Deformation Parameter  
De Falco L. **Jannussis A.** Mignani R. and Sotiropoulou A.  
Modern Physics Letters A, **9** (1994)3331

178. Non - Hermitian Realization of the Lie - Deformed Heisenberg Algebra  
**Jannussis A.** Leodaris A. Mignani R.  
 Physics Letters A **197** (1995)187
179. Landau - Zener like Transitions of a driven Caldirola - Kanai Oscillators  
 Baskoutas S. **Jannussis A.** and Mignani R.  
 Modern Physics Letters A. **10** (1995)219 - 226
180. q - Deformed Harmonic Oscillator in Phase Space  
 Aringazin, A.K., Aringazin, K.M., Baskoutas, S., Brodimas, G., Jannussis A. and Vlahos, E.  
 Advances in Fundamental Physics, (1994) eds. M. Barone, F. Selleri, Hadronic Press, Palm Harbor, FL USA, 329 p., ISBN 0-911767 - 72 -X, <http://www.arxiv.org> (hep-th/9811027).
181. Non - Hermitian realization of a Lie - deformed Heisenberg algebra  
**A. Jannussis**, A. Leodaris, and R. Mignani,  
 Physics Letters A, Volume **197**, Issue 3, (1995) p. 187 - 191.
182. Two - photon JaynesCummings model in Kerr - like media  
 N. Patargias, V. Bartzis and **A. Jannussis**  
 Phys. Scr. **52** No 5 (1995) 554 - 557
183. Non-Hermitian tunneling of open quantum systems  
 Angelopoulou, P., Baskoutas, S., **Jannussis, A.** , Mignani, R., Papatheou, V.  
 International Journal of Modern Physics **B17**, (1995) 2083-2104.
184. Extension of Lie to Lie -Admissible Algebras for the Description of Open Quantum Systems  
 Skaltsas D., **Jannussis A.**, Ioannidou H.  
 Hadronic J. **18**, (1995) 439 - 508
185. Lie - admissible Structure of Caldi's Model  
**A. Jannussis**  
 Hadronic J. **19**, (1996) 535 - 541

186. Displaced squeezed number states of the phonon field in polar semiconductors  
S. Baskoutas, **A. Jannussis**, and P. Yianoulis.  
Phys. Rev. **B 54**, (1996) 8586 - 8592
187. On superluminal velocities  
**Jannussis A.** and Baskoutas S  
Relativistic Physics and some of Its Applications, ed. F. Selleri, Keys, Apeiron Montreal, (1998) **261** p., ISBN 0-9683689-1-3. p. 337 - 344.
188. Deformed Gauge Problem of Electrons in a Uniform Magnetic Field  
**Jannussis A.**, Kliros G., Sotiropoulou A.  
Communications in Theoretical Physics Vol.**5** No. 1 (1996) 1-31
189. Complex Geometry as Geno - geometry and Axiomatization of Irreversibility  
Angelopoulou P., **Jannussis A.**, Sotiropoulou A.  
Tensor, N.S. Vol.**57** (1996)
190. Non - Unitary Weyl and Squeeze Operators  
**Jannussis A.**, Kliros G., Vlahos E.  
Communications in Theoretical Physics Vol.**5** No. 1 (1996) 33 - 43
191. New Modified Lie Admissible Statistics  
**Jannussis A.**  
Proceedings of the Workshop of Global Analysis, Differential Geometry and Lie Algebra, C 1999 Balkan Society of Geometers, Geometry Balkan Press. (1996) 35 - 45
192. Modern Physics and the Greeks  
**Jannussis A.**  
Analele Universitatii "Dunare de Jos" Din Galati, Rumania, Matematica Fizica, Mecanica Theoretica, Fascicula II, anual XVII (XXII) 1999
193. Connection between Q - algebras and noncanonical Heisenberg algebras  
**Jannussis A.**, Brodimas, G.  
Modern Physics Letters **A 15** (21), ( 2000) pp. 1385 - 1390



194. On the Thermal Stability and Melting Temperature of Nanosystems  
 Rieth M., Schommers W., Baskoutas S., and **Jannussis A.**  
 chinese Physics Vol.**10** Suppl..., July (2001) 1009 - 1963 / 2001/ 10  
 (Suppl.) / 0s137 - 03
195. Harmonic oscillator with complex mass and frequency and the violation  
 of PT symmetry  
**Jannussis, A.**, Papatheou, V., Ioannidou, H.  
 Nuovo Cimento della Societa Italiana di Fisica **B 117** (4), ( 2002 ) pp.  
 487 - 490
196. Non - Hermitian Harmonic Oscillator with Discrete Complex or Real  
 Spectrum for Non - Unitary Squeezed Operators  
**Jannussis A.**, Brodimas G., Baskoutas S. and Leodaris A..  
 J.Phys.A: Math.Gen. **36** (2003) 2507 - 2516
197. Time Dependent Hamilton Operators of a RLC Circuit with a Source  
**Jannussis A.**, Baskoutas S.  
 Global Analysis, Differential Geometry, Lie Algebras Geometry, Balkan  
 Press. Vol.**10** (2004) 72 - 77
198. Energy - Dependent Minkowski Metric In Space - Time  
 Mirron R. **Jannussis A.**, and Zet G.  
 Global Analysis, Differential Geometry, Lie Algebras, Geometry.  
 Balkan Press. Vol.**10** (2004) 109 - 123
199. Non - Commutative Geometry and Applications in Physics, 191  
**Jannussis A.**, Papatheou V., Vlachos K.  
 Algebras, Groups and Geometries. Vol.**21** No.3 (2004) 1 - 19
200. Quantum deformed problem of electrons in the Dirac theory.  
**A. Jannussis**, V. Papatheou, A. Streklas, K. Vlachos  
 Handbooks. Treatises. Monographs. Lagrange and Hamilton Geome-  
 tries and their Application. Ed: Radu Miron Volume **49** (2004) 133 -  
 143

201. Diffusion and adsorption measurements in porous solids by inverse gas chromatography  
Katsanos, N.A., Bakaoukas, N., Koliadima, A., Karaiskakis, G., **Jannussis, A.**  
Journal of Physical Chemistry **B 109** (22), (2005) pp. 11240 - 11246
202. PT and CPT symmetries for non - Hermitian operators  
**Jannussis, A.**, Brodimas, G., Ioannidou, H., Leodaris, A., Papatheou, V.  
Nuovo Cimento della Societa Italiana di Fisica **B 120** (3), (2005) pp. 303 - 312
203. Deformed harmonic oscillator for non - hermitian operator and the behavior of PT and CPT symmetries  
**Jannussis, A.**, Vlachos, K., Papatheou, V., Streklas, A.  
International Journal of Modern Physics **B 20** (16), (2006 ) pp. 2313 - 2322
204. Annihilation and creation operators for the Caldirola - Kanai Hamiltonian with complex friction coefficient  
Brodimas, G., Goupios, N., **Jannussis, A.**  
Modern Physics Letters **B 21** (29), (2007) pp. 1983 - 1988