

CV of Yshai Avishai



FIG. 1: Yshai Avishai, December 2012.

PERSONAL DETAILS

date and place of birth: 1938 Afula, Israel.

marital status: married + 3+9.

permanent affiliation: Professor of Physics, Ben Gurion University, Beer Sheva, Israel.

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ACADEMIC BACKGROUND

<u>From-to</u>	<u>Institute</u>	<u>Degree</u>	<u>Area of specialization</u>
1962-1964	Hebrew University	B.Sc	Physics
1964-1966	Hebrew University	M.Sc	Nuclear Physics
1966-1970	Weizmann Institute	Ph.D	Nuclear Physics
2010-2013	Ben Gurion University	M.A	Economics

PREVIOUS EMPLOYMENT

<u>From-to</u>	<u>Institute</u>	<u>Title</u>	<u>Research Area</u>
1985-	BGU	Professor	Condensed Matter Physics
2012-2013	HKUST	Visiting Professor	Condensed Matter Physics
2009-2010	U. Tokyo	Visiting Professor	Condensed Matter Physics
2008-2009	HKUST	Visiting Professor	Condensed Matter Physics
2007-2008	Saclay	Visiting Scientist	Condensed Matter Physics
2006	U. Tokyo	Visiting Professor	Condensed Matter Physics
1990-1991	Saclay	Visiting Scientist	Condensed Matter Physics
1979-1985	BGU	Assoc. Professor	Nuclear Physics
1983-1984	Strasbourg	Visiting Professor	Nuclear Physics
1978-1979	Saclay	Visiting Scientist	Nuclear Physics
1977-1978	Lyon	Visiting Professor	Nuclear Physics
1974-1979	BGU	Sen. Lect.	Nuclear Physics
1972-1974	BGU	Lecturer	Nuclear Physics
1970-1972	Argonne Lab.	Postdoc	Nuclear Physics

Administrative duties

1984-1988 Head of the physics department, Ben Gurion University

October 2004-April 2006 Head of the Ilse Katz Center for Nanoscience, Ben Gurion University.

Honors

Fellow of the American Physical Society.

Member of the Editorial Board, Physical Review Letters.

Former Member of the Judging Committee, Israel Prize in Physics.

Former Member of the Judging Committee, Emet Prize in Art, Science and Culture (Israel).

Hobbies

Classical music (amateur piano playing), Jazz, Sport (downhill skiing, bicycles).

Language proficiency

Hebrew, English, French, German (fair), Japanese (fair), can read scientific articles in Russian.

Fields of interest

Quantum Mechanics, Electronic Transport in low dimensional systems, Quantum Dots with metallic and superconducting leads, Strongly Correlated Electrons, Kondo Effect, Non-Linear Response, The Quantum Hall Effect, Cold atom physics, Quantum Information, Quantum Pumping, Superconductor Insulator Transition, Topological Insulators, Quantum games.

List of publications updated on April 25 2014

Books

1 Editor: *Recent Progress in Many Body Theories II*, Plenum Press, N.Y (1990)

2: K. Kikoin, Y. Avishai and M. Kiselev
Dynamical Symmetries in Nanostructures
350 pp, Springer (2012).

<http://www.springer.com/materials/nanotechnology/book/978-3-211-99723-9>

3: Y. B. Band and Y. Avishai
Quantum Mechanics, with Applications to Nanotechnology and Information Science
≈ 1000 pp, Elsevier (2013) .

http://books.google.com.hk/books/about/Quantum_Mechanics_With_Applications_to_N.html?id=zb3XuQAACAAJ&redir_esc=y

Referred Papers

1. *Dispersion relations in elastic proton deuteron scattering*
(with W. Ebenhoh and A. Rinat). Phys. Lett. 29B, 638, (1969)
2. *Dispersion relation for neutron deuteron scattering*
(with A. Rinat). Ann. Phys. 55, 341, (1969)
3. *New integral equations in the theory of four particle scattering*
Nucl. Phys. A150, 379, (1970)
4. *An integral equation for the N particle resolvent operator*
Nucl. Phys. A161, 621 (1971)
5. *Three body problems in the Amado model*
Phys. Rev. D3, 3232 (1971)
6. *Analytic properties of three particle amplitudes in $\cos(\theta)$*
Phys. Rev. D4, 400, (1971)
7. *Coulomb effects and Charge symmetry breaking*
(with A. Rinat). Phys. Lett. 36B, 161 (1971)
8. *Nucleon - deuteron scattering with tensor force interaction*
(with A. Rinat) Phys. Lett. 37B, 487 (1971)
9. *Causal independence*
(with H. Ekstein). Found. Phys. 2, 257, (1972)
10. *Is the Maxwell Field local?*
(with H. Ekstein and J. E. Moyal). Jour. of Math. Phys. 13, 1139, (1972)
11. *Excited states of ^{16}O in the a particle model of light nuclei*
Phys. Rev. C6, 677, (1972)
12. *Presymmetry of classical relativistic fields*
(with H. Ekstein). Phys. Rev. D7, 983, (1973)
13. *Complex Hamiltonian and three alpha resonances*
Phys. Lett. 47B, 222, (1973)

14. *Peripheral resonances in heavy ion scattering*
(with R. C. Fuller). Nucl. Phys. A222, 365, (1974)
15. *Einstein equivalence principle and special relativistic presymmetry*
(with H. Ekstein). Commun. in Math. Phys. 37, 193, (1974)
16. *Validity of the adiabatic approximation in scattering theory*
(with A. Rinat). Phys. Lett. 55B, 153, (1975)
17. *The three body problem with inverse square potentials*
Jour. of Math. Phys. 16, 1491 (1975)
18. *Kinematic perturbation in the three body problem*
Phys. Rev C11, 2082, (1975)
19. *A new look at nuclear glory*
Z. Phys. A278, 173, (1976)
20. *A single reflection approximation in potential scattering*
(with D. Agassi). Nucl. Phys. A272, 215 (1976)
21. *Reflection at a complex barrier in the semi-classical theory of scattering*
(with J. Knoll) Z. Phys. A279, 415, (1976)
22. *Probabilistic model for deep inelastic reactions*
Z. Phys. A282, 347, (1977)
23. *A multiple reflection expansion for potential scattering*
(with D. Agassi). Phys. Lett. 74B, 18, (1978)
24. *Sub Coulomb fusion*
Z. Phys. A285, 333, (1978)
25. *Fusion reactions at sub Coulomb energies*
Z. Phys. A286, 285, (1978)
26. *Influence functionals in deep inelastic reactions*
Phys. Lett. 76B, 5, (1978)
27. *Polarization observables in $\pi - d$ scattering*
(with N. Giraud, C. Fayard and G. H. Lamot). Phys. Lett. 77B, 141, (1978)
28. *On the production of super-heavy elements by fusion*
Jour. de Phys. L5, 417, (1978)
29. *Three body calculations of elastic $\pi - d$ scattering*
with N. Giraud, C. Fayard and G. H. Lamot). Phys. Rev. C17, 465 (1979)
30. *Theory of the coupled $\pi NN - NN$ system. I. Practical equations and unitarity*
(with T. Mizutani) Nucl. Phys. A326, 352, (1979)
31. *Theory of the coupled $\pi NN - NN$ system. II Renormalization*
(with T. Mizutani). Nucl. Phys. A338, 377, (1980)
32. *Theory of the coupled $\pi - A$ system*
(with T. Mizutani) Phys. Rev. C22, 2492, (1980)
33. *Theory of π^- absorption on ${}^3\text{He}$ at threshold*

- (with T. Mizutani) Jour. of Phys. G6, L203, (1980)
34. *Theory of the coupled $\pi NN - NN$ systems. III a three body model*
(with T. Mizutani) Nucl. Phys. A352, 399, (1981)
35. *Theory of elastic $\pi^{-3}He$ scattering*
(with T. Mizutani) Nucl. Phys. A375, 470, (1982)
36. *Parity violation in elastic $n - \alpha$ scattering*
Phys. Lett. 112B, 311, (1982)
37. *Theory of the coupled $\pi NN - NN$ system. IV Off mass shell formalism*
(with T. Mizutani) Phys. Rev. C27, 312, (1983)
38. *Connected kernel equations for the coupled $\pi NNN - NNN$ system*
(with T. Mizutani) Nucl. Phys. A393, 429 (1983)
39. *The three nucleon problem with weak NN interaction*
Nucl. Phys. A399, 575, (1983)
40. *Parity violation in nucleon nucleus elastic scattering*
Phys. Rev. C28, 656, (1983)
41. *Monte Carlo evaluation of functional integrals*
(with J. Richert) Phys. Rev. Lett. 50, 1175, (1983)
42. *Mesonic degrees of freedom in few nucleon systems*
Nucl. Phys. A416, 157, (1984)
43. *Monte Carlo methods in finite fermion systems*
Lect. Notes in Phys. 198, 385, (1984)
44. *Reply to a comment on "Monte Carlo Evaluation of Functional Integrals"*
(with J. Richert) Phys. Rev. Lett. 51, 1104, (1983)
45. *Formal theory of weak neutron deuteron scattering*
Jour. de Phys. C3, 71, (1984)
46. *Nucleon nucleus weak scattering*
Jour. de Phys. C3, 75, (1984)
47. *Parity violation in weak nucleon deuteron scattering*
Phys. Rev. Lett. 52, 1389, (1984)
48. *Neutron spin rotation angle in weak neutron proton scattering*
Phys. Lett. 142B, 1, (1984)
49. *Partition function from the Green function*
(with J. Richert) Jour. of Phys. A17, L751, (1984)
50. *Electric dipole moment of the deuteron* Phys. Rev. D32, 314, (1985)
51. *Parity violation in threshold neutron proton scattering*
(with. P. Grange) Jour. of Phys. G10, L263, (1985)
52. *Density of states and the phase of the transmission coefficient*
(with. Y. B. Band) Phys. Rev. B32 (RC) 2674, (1985)

53. *Parity violating observables in $n + p \rightarrow d + \gamma$*
(with S. Morioka and P. Grange') Nucl. Phys. A457, 518, (1986)
54. *Electric dipole moment of ^3He*
(with M. Fabre de la Ripelle) Phys. Rev. Lett. 56, 2121, (1986)
55. *Resistance of Random Kronig Penney potentials*
(with Y. B. Band) Phys. Rev. B34, 3429, (1986)
56. *Phase transition of Aharonov - Bohm periodicity in metallic cylinders*
(with B. Horovitz) Phys. Rev. B35 (RC), 423, (1987)
57. *Quantum scattering determination of magnetoconductance for 2D systems*
(with Y. B. Band) Phys. Rev. Lett. 58, 2251, (1987)
58. *Electric dipole moment of the Helium atom*
(with M. Fabre de la Ripelle) Nucl. Phys. A468, 578, (1987)
59. *Magnetoconductance of 2D disordered systems*
(with Y. B. Band and B. Horovitz) Phil. Mag. 56,971,(1987)
60. *Compound Nucleus in Livsic Open System Theory*
Phys. Rev. A. July (1988)
61. *Parity Violation Asymmetry in Nucleon Nucleon Scattering*
(with P. Grange') Nucl. Phys. A 491 677 (1989)
62. *A Study of Solitonic Combinations Based on the Theory of Commuting Non-Selfadjoin Operators*
(with M. Livsic) Linear Algebra and its Applications 122, 357-414 (1989)
63. *Coexistence of localized and extended states in the Quantum Hall Effect*
(with B. Giraud), Phys. Rev. B39, 8349 (1989)
64. *Green Function for Finite Extended Systems*
(with Y. Band) Phys. Rev A40, 5500-5506 (1989)
65. *Conductance of a Terminal Junction*
(With Y. Band) Phys. Rev. Lett. 62 2527 (1989)
66. *Conductance of an orifice with a magnetic field*
(with Y. Band) Phys. Rev. B40(RC), 3429-3432 (1989)
67. *Ballistic Electronic Conductance of an Orifice*
(with Y. Band) Phys. Rev. B40, 12535-12538 (1989)
68. *Conductance of Two Narrow Channels*
(with M. Kaveh, S. Shatz and Y. Band) Jour. Phys. C: Condensed Matter 1, 6907 (1989)
- 69 *Ballistic Conductance of a Wide Orifice*
(with Y. Band) Phys. Rev. B41 (RC) 3523-3527 (1990)
- 70 *Scattering from a Magnetic Strip*
(with Y. Band) Phys. Rev. B41 , 9430-9435 (1990)
- 71 *Transmission Through a Fibonacci Sequence of Delta Function Potentials*
(with D. Berend) Phys. Rev. B41, 5492-5502 (1990)
- 72 *Conductance of Fabri-Perot and Young Two Slit Structures*

- (with M. Kaveh and Y. B. Band) Phys. Rev. B42.5867 (1990)
- 73 *Universal Conductance Fluctuations in Ballistic Transport*
(with J. Bar Touv M. Kaveh and Y. B. Band) Physica A 168, 433 (1990)
- 74 *Quantum Mechanical Conductance of a Kink*
(With J. Bar Touv) Phys. Rev. B42, 11496-11507 (1990)
- 75 Book: (Ed.) Recent Progress in Many Body Theories II (Plenum Press, N.Y (1990))
- 76 *Hall resistance for particles with spin and violation of Aharonov Bohm Periodicity*
(with Y. Band) Solid State Communication 77, 77-81 (1991)
- 77 *Transmission Through a Fibonacci Chain*
(With D. Berend) Phys. Rev. B43, 6873-6884 (1991)
- 78 *Electron Transmission Through a Perpendicular Magnetic Flux Tube*
(with Y. Band) Phys. Rev. Lett. 66, 1761-1764 (1991)
- 79 *Quantum Bound-States in Open Geometries*
(with B. Giraud, G. Mantica and D. Bessis), Phys. Rev. B44. 8028-8036 (1991)
- 80 *Conductance, Localization Length and Inelastic Length*
(with Y. Band and H. U. Baranger) Phys. Rev. B45, 1488 (1992)
- 81 *Quantum Percolation and Ballistic Conductance on a Lattice of Wires*
(with J. M. Luck) Phys. Rev. B45 1074-1096 (1992)
- 82 *Transmission through a Thue-Morse Chain*
(with D. Berend) Phys. Rev. B45, 2717 (1992)
- 83 *Electron States in Magnetic Field and Random Impurity Potentials*
(with R. M. Redheffer and Y. B. Band) Jour. of Phys. A Math. Gen. 25, 3883 (1992)
84. *Two Dimensional Disordered Electronic Systems in a Strong Magnetic Field*
(with R. M. Redheffer) Phys. Rev. B47 ,2089 (1993)
85. *Extended Solutions on the Landau Levels with Disorder*
(with S. Gredeskul and Mark Ya. Azbel') Europhys. Lett. 21, 489 (1993)
86. *A.C conductance of an interacting quantum dot*
(with R. Berkovitch and M. Avraham) J. Phys. Cond. Matter 5, L175 (1993)
87. *Persistent Currents and edge states in a magnetic field*
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88. *Trace Maps for arbitrary substitution sequences*
(with D. Berend) Jour. of Phys. A Math. Gen. 26, 2437 (1993)
89. *Localization Problem for a lattice with random magnetic field*
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90. *Dynamics of fermions in an accessible flux tube*
(with S. A. Gredeskul) Phys. Rev. B47, 6395 (1993)
91. *Quantum Transmission in Disordered Insulators: Random Matrix Theory*
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92. *Quantization of Persistent Currents in Quantum Dot at Strong Magnetic Fields*
(with M. Kohmoto) *Physica A*200, 504 (1993)
93. *Persistent Current and Magnetization at Strong Magnetic Fields*
(M. Kohmoto) *Phys. Rev. Lett.* 71, 279 (1993)
94. *Electrons in a Magnetic Field interacting with Point Impurities*
(with S. A. Gredeskul and M. Ya. Azbel') *Phys. Rev.* B48, 17280 (1993)
95. *Fluctuation Spectrum of Electron States in Magnetic Field and White Noise Potential*
(With. M. Zusman and S. A. Gredeskul) *Phys. Rev.* B48, 17922 (1993)
96. *Canonical Products of Genus Two*
(with R. M. Redheffer) *World Sc. Series in Applicable Analysis* 3, 53 (1994)
97. *Localization properties of quasi 1D conductor networks in random magnetic fields*
(with J. M. Luck) *Phys. Rev.* B49 8679 (1994)
98. *Minimum Dimension Trace Map for Substitution Sequences*
(with D. Berend and D. Glaubman) *Phys. Rev. Lett.* 72, 1842 (1994)
99. *Mesoscopic Persistent Current Correlations in Strong Magnetic Field*
(with D. Elyahu and R. Berkovits), *Phys. Rev.* B49, 14448 (1994)
100. *Scattering of Edge States from a Periodically Modulated Potential*
(with J. Cohen, *Physica B*202, 91 (1994)
101. *Transfer Matrix approach to AC conductance*
(with J. Cohen) *Euro. Phys. Lett.* 27 525 (1994)
102. *Localization in quasi 1D systems: Perturbation Theory and Scaling*
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103. *Interplay between potential and magnetic disorder in quasi 1D systems*
(with J. Bar Touv) *Phys. Rev.* B51 8069 (1995)
104. *Distribution of persistent currents for 2D interacting electrons*
(with R. Berkovits) *Solid State Communications* 93, 301 (1995)
105. *Electron-electron Interaction Effects on Persistent currents*
(with R. Berkovits) *Euro. Phys. Lett.* 29 475 (1995)
106. *AC conductance and localization at finite frequency*
(with J. Cohen) *Jour. of Phys. Condensed Matter* 7, L121 (1995)
107. *Electronic Conductance in Mesoscopic Systems: Multichannel Calculations*
(with I. Tuvi and Y. Band) *J. Phys. Condensed Matter* 7, 6045-6063 (1995)
108. *Single particle states on the sphere with magnetic field and disorder*
(with Y. Hatsugai and M. Kohmoto) *Phys. Rev.* B51 13419 (1995)
109. *2D electrons in a magnetic field and point potentials*
(with M. Zusman, S. Gredeskul and M. Ya. Azbel') in "Fluctuation Phenomena: Disorder and Non-Linearity" Eds. A. R. Bishop S. Jimenez and L. Vasquez, (World Scientific, Singapore, page 333-339 1995)
110. *Quantum Hall Effect in an Annulus*
(with M. Kohmoto) *Int. Journal of Mod. Phys.* B9, 2949 (1995)

111. *Spectral Statistics on the lowest Landau Level*
(with M. Feingold and R. Berkovits) Phys. Rev. B52, 8400 (1995)
112. *Screening in Mesoscopic one dimensional rings*
(with G. Braverman) Phys. Rev. B52, 12135 (1995)
113. *A.C Magnetoconductance*
(with J. Cohen) J. Phys. Condensed Matter 7, 8791-8804 (1995)
114. *Temperature Scaling Between Hall plateaus*
(with V. Kagalovsky and B. Horovitz) Euro. Phys. Lett. 31 467 (1995)
115. *Energy of extended states in the quantum Hall effect*
(with V. Kagalovsky and B. Horovitz) Phys. Rev. B52 (RC) 17044 (1995)
116. *Magnetoresistance of 2D Mesoscopic Structures: A Variational Approach*
(with D. Brown and Y. Band) Phys. Rev. B53, 4855-4870 (1996)
117. *Level spacing of Strongly Correlated Systems*
(with R. Berkovits) J. Phys. Cond. Math. 8 389 (1996)
118. *e-e Interaction effects on conductance and and persistent currents*
(with R. Berkovits) Phys. Rev. Lett. 76, 291 (1996)
119. *Localization in Random magnetic field: scaling approach*
(With M. Feingold and Y. Rutman) Phys. Rev. B53, 9634 (1996)
120. *Two matrix models: Their possible relevance in condensed matter physics.*
(with Y. Hatsugai and M. Kohmoto) Phys. Rev. B53, 8369 (1996)
121. *Spectral Statistics Near the Quantum Percolation threshold.*
(With R. Berkovits) Phys. Rev. B53 (RC) R16125 (1996)
122. *New Universality class in the 1D localization problem*
(with M. Yamanaka and M. Kohmoto) Phys. Rev. B54 228-235 (1996)
123. *Electron in random magnetic field: New Universality class of random matrices?*
(with M. Kohmoto) Phys. Rev. B54 4194-4206 (1996)
124. *Electron in Two Dimensions with Point Scatterers and a Magnetic Field*
(with M. Zusman, S. Gredeskul and M. Ya. Azbel') The Ima Volumes in Math. and its Appl. (Springer) 96, 95-142 (1997)
125. *Landau Level Mixing and Spin Degeneracy in the Quantum Hall Effect*
(with V. Kagalovsky and B. Horovitz) Phys. Rev. B55, 7761 (1997)
126. *Distribution of level curvatures on the lowest Landau level*
(with Richard Berkovits) Phys. Rev. B55, 7791 (1997)
127. *Spectral Properties and Localization of Electrons in Two-Dimensions With Point Scatterers at Strong Magnetic Fields*
(With S. Gredeskul M. Zusman and M. Ya. Azbel') Physics Report 288, 223-257 (1997)
128. *Two-dimensional electron gas with point scatterers at strong magnetic field*
(with S. Gredeskul and M. Ya. Azbel') Journal of Low Temperature Physics 23, 15 (1997)
129. *Non Linear Response of multilevel tunneling systems: Generation of higher harmonics*

(with Y. Goldin) Phys. Rev. **B55**, 16359 (1997)

130. *Trace Maps*

(with D. Berend and V. Tkachenko) Int. Jour. of Mod. Phys. **B11** 3525-3542 (1997)

131. *Interaction footprints in two-dimensional electronic systems*

(with Richard Berkovits) Phil. Mag. **77**, 1115-1122 (1998)

132. *Spin Orbit Scattering in the quantum Hall effect*

(with V. Kagalovsky and B. Horovitz) Physica E **1**, 129-131 (1997)

133. *Spin Orbit and Spin Splitting in the quantum Hall effect*

(with V. Kagalovsky and B. Horovitz) Physica Status Solidi **b205**, 377-379 (1998)

134. *Localization in Fock space: A finite size scaling hypothesis for interacting systems*

(with R. Berkovits), Phys. Rev. Lett. **80** 568 (1998)

135. *Type II Superconductors with a small concentration of columnar defects near the upper critical field*

(with G. M. Braverman and S. A. Gredeskul, Phys. Rev. **B57**, 13899 (1998)

136. *Charge and Current Distribution of fractional Hall systems with edges*

(with J. Shiraishi and M. Kohmoto), Phys. Rev. **B57**, 13061 (1998)

137. *Plastic flow of persistent currents in strongly correlated systems*

(with R. Berkovits, Phys. Rev. **B57** RC15076 (1998)

138. *Statistics of addition spectra of independent quantum systems*

(with D. Berend and R. Berkovits) Jour. of Phys. **A31** (Math. Gen.) 8063 (1998)

139. *Non-linear response of a Kondo system: Direct and Alternating Tunneling current*

(with Y. Goldin) Phys. Rev. Lett. **81**, 5394 (1998))

140. *Fluctuation of Conductance Peak Spacings in Large Semiconductor Quantum Dots*

(with D. Berend and R. Berkovits, Phys. Rev. **B59**, 10707 (1999))

141. *Fluctuation of inverse compressibility for electronic systems with random capacitive matrices* (with D. Berend and R. Berkovits) in *Waves in Random Media*, **9**, 163 (1999)

142. *Coalescence of extended states in large quantum dots*

With V. Kagalovsky and Baruch Horovitz, Physica **B256-258**, 161-164 (1999)

143. *Excitonic Kondo Effect*

(with K. Kikoin and M. Pustilnik) Physica **B259-261**, 217 (1999)

144. *Mesoscopic superconductor disk with short-range columnar defects*

With G. Braverman and S. A. Gredeskul Phys. Rev. **B59**, 12039 (1999)

145. *Quantum Hall Plateau Transitions in Disordered Superconductors*

(with Baruch Horovitz, V. Kagalovsky and J. T. Chalker, Phys. Rev. Lett. **82**, 3516 1999)

146. *Magnetic Properties of Conventional Superconductors with Columnar Defects*

(with G. Braverman and S.A. Gredeskul, Low Temperature Physics, [Russian title: Fizika Nizkikh Temperatur] **25**, 614 (1999))

147. *Conductance distribution between Hall plateaus*

(with Y. Band and D. Brown, Phys. Rev. **B60**, 8992 (1999))

148. *Quantum dots with even number of electrons: Kondo effect in a finite magnetic field*

with M. Pustilnik and K. A. Kikoin, Phys. Rev. Lett. **84**, 1756 (2000)

149. *Josephson Current for unconventional superconductors through an Anderson impurity*

Y. Avishai and A. Golub, Phys. Rev. **B61** 11293 (2000)

150. *Non-linear response of a Kondo system: Perturbation approach to the time dependent Anderson impurity model*

Y. Goldin and Y. Avishai, Phys. Rev. **B61**, 16750-73 (2000).

151. *Many-particle resonances in excited states of semiconductor quantum dots*

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152. *Tunneling through an Anderson impurity between superconductors*

Y. Avishai, A. Golub and A. D. Zaikin, Phys. Rev. **B63** 13-4515 (2001).

153. *No indications of metal-insulator transition for systems of interacting electrons in two dimensions*

R. Berkovits, J. W. Kantelhardt, Y. Avishai, S. Havlin and A. Bunde, Phys. Rev. **B63**, 08-5102 (2001).

154. *Kondo tunneling through real and artificial molecules*

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156. *Shot noise in superconducting junctions with weak link formed by Anderson impurity*

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157. *Resonant electron transmission through a finite quantum spin chain*

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160. *Magnetoresistance study for systems of interacting electrons in two dimensions*

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162. *Double Quantum Dot as a spin rotator*

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V. Kagalovsky, B. Horovitz and Y. Avishai, Phys. Stat. Solidi, **B230** (1), 117-119 (2002).

164. *Oscillatory Instabilities in DC Biased Quantum Dots*

P. Coleman, C. Hooley, Y. Avishai, Y. Goldin and A. F. Ho, J. Phys. Condensed Matter **14** L205-L211 (2002).

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I. Kuzmenko, S. Gredeskul, K. Kikoin and Y. Avishai, Low Temp. Phys., V. 28(7), 359 (2002) [Fiz. Nizkikh Temp., V. 28, p.p. 752 - 768 (2002)].

166. *Kondo singlet versus Zhang-Rice and Heitler-London singlets*

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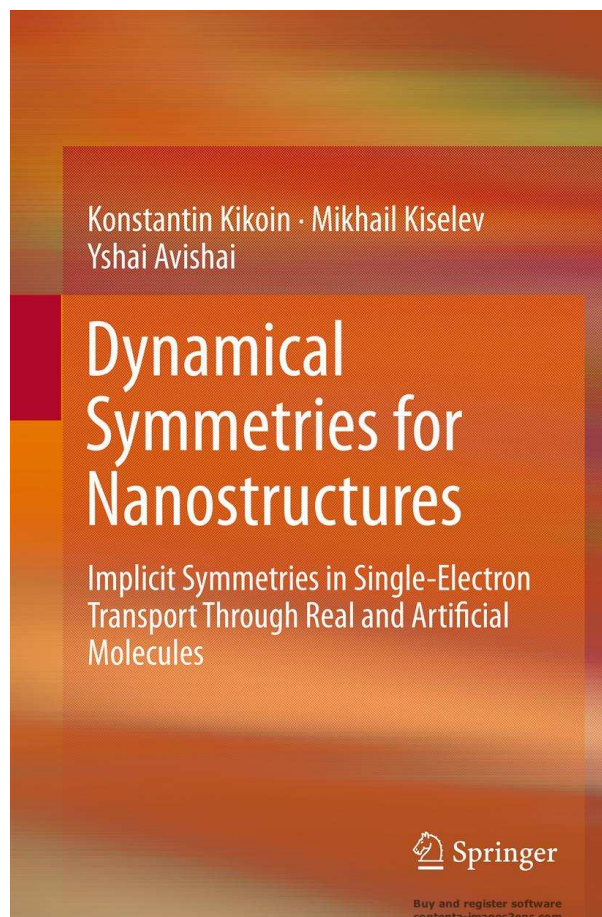


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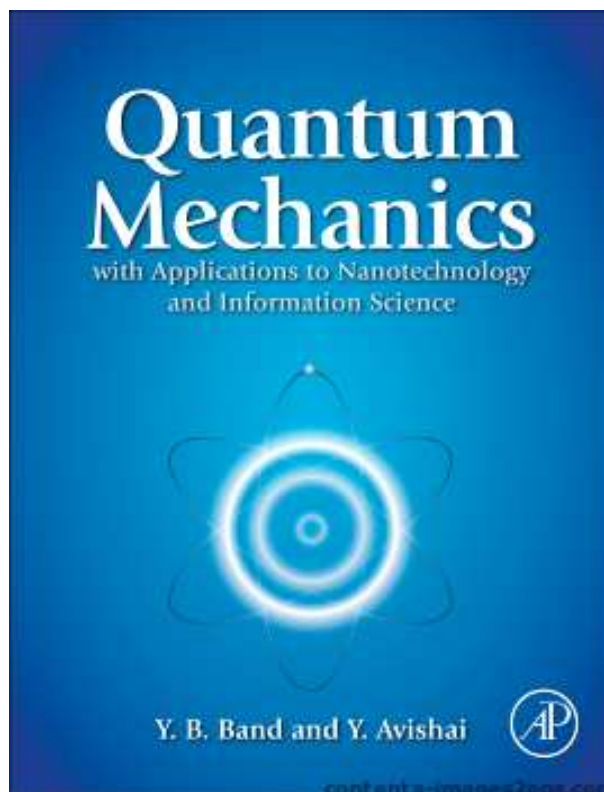


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