

ASHER PERES — LIST OF PUBLICATIONS

A. Books

1. C. G. Kuper and A. Peres, editors, “Relativity and Gravitation” (Gordon and Breach, New York, 1971) xi+324 pp.
2. A. Peres, “Quantum Theory: Concepts and Methods” (Kluwer Academic Publishers, Dordrecht, 1993) xiv+446 pp., reprinted in paperback (1995); Japanese translation published by Maruzen Co., Tokyo, 2001.

B. Articles in professional journals

1. A. Pressman, La masse propre du photon, *Comptes Rendus* 239 (1954) 1023
2. A. Peres, Determination of cold work energy in copper by means of electrochemical measurements, *Bull. Res. Council Israel* 6C (1957) 9
3. A. Peres, Photons, gravitons, and the cosmological constant, *Nuovo Cim.* 8 (1958) 533
4. A. Peres, On electromagnetic radiation reaction, *Bull. Res. Council Israel* 7F (1958) 101
5. A. Peres, Gravitational motion and radiation. I, *Nuovo Cim.* 11 (1959) 617
6. A. Peres, Gravitational motion and radiation. II, *Nuovo Cim.* 11 (1959) 644
7. A. Peres, Gravitational motion and radiation. III, *Nuovo Cim.* 13 (1959) 439
8. A. Peres and N. Rosen, On Cauchy’s problem in general relativity, *Nuovo Cim.* 13 (1959) 430
9. A. Peres and N. Rosen, Nonlinear effects of gravitational radiation, *Phys. Rev.* 115 (1959) 1085
10. A. Peres, On gravitational radiation, *Nuovo Cim.* 13 (1959) 670
11. A. Peres, Some gravitational waves, *Phys. Rev. Letters* 3 (1959) 571
12. A. Peres and N. Rosen, Gravitational radiation damping of nongravitational motion, *Ann. Phys. (N.Y.)* 10 (1960) 94
13. A. Peres and N. Rosen, Quantum limitations on the measurement of gravitational fields, *Phys. Rev.* 118 (1960) 335
14. A. Peres, Gravitational radiation, *Nuovo Cim.* 15 (1960) 351
15. A. Peres and P. Singer, On possible experimental tests for the paradox of Einstein, Podolsky and Rosen, *Nuovo Cim.* 15 (1960) 907
16. A. Peres, Null electromagnetic fields in general relativity theory, *Phys. Rev.* 118 (1960) 1105
17. A. Peres, Three-dimensional formulation of general relativity theory, *Bull. Res. Council Israel* 8F (1960) 179
18. A. Peres, Neutrino and cosmology, *Prog. Theor. Phys.* 24 (1960) 149
19. A. Peres, Electromagnetic radiation from a freely gravitating charge, *Ann. Phys. (N.Y.)* 12 (1960) 86
20. A. Peres, Quantum limitations of Mach’s principle, *Bull. Res. Council Israel* 9F (1960) 71
21. A. Peres, Absence of bound states in a gravitational field, *Phys. Rev.* 120 (1960) 1044
22. A. Peres, Invariants of General Relativity. I, *Nuovo Cim.* 18 (1960) 32
23. A. Peres, Invariants of General Relativity. II, *Nuovo Cim.* 18 (1960) 36
24. A. Peres and N. Rosen, Covariant formalism for particle dynamics, *Nuovo Cim.* 18 (1960) 644
25. A. Peres, Problem of Rainich for scalar fields, *Bull. Res. Council Israel* 9F (1960) 129
26. A. Peres, Nonlinear electrodynamics in general relativity, *Phys. Rev.* 122 (1961) 273
27. A. Peres, On geometrodynamics and null fields, *Ann. Phys. (N.Y.)* 14 (1961) 419
28. A. Peres, Gauge covariance of spinor geometry, *Nuovo Cim.* 21 (1961) 182
29. A. Peres, Classical meson radiation, *Bull. Res. Council Israel* 10F (1961) 240
30. A. Peres, Three-component spinors, *J. Math. Mech.* 11 (1962) 61
31. A. Peres, Spinor fields in generally covariant theories, *Suppl. Nuovo Cim.* 24 (1962) 389
32. A. Peres, Electromagnetism, geometry, and the equivalence principle, *Ann. Phys. (N.Y.)* 19 (1962) 279
33. A. Peres, On Cauchy’s problem in general relativity. II, *Nuovo Cim.* 26 (1962) 53
34. A. Peres, On Cauchy’s problem in general relativity. III, *Nuovo Cim.* 26 (1962) 182

35. T. Morgan and A. Peres, Direct test for the strong equivalence principle, *Phys. Rev. Letters* 9 (1962) 79
36. A. Peres, Classical radiation recoil, *Phys. Rev.* 128 (1962) 2471
37. A. Peres, Spurious nature of ultraviolet divergences, *Nuovo Cim.* 28 (1963) 78
38. A. Peres, Mechanical model for quantum field theory, *J. Math. Phys.* 4 (1963) 332
39. A. Peres, Coulomb and Lorentz gauges in gravitodynamics, *Phys. Lett.* 4 (1963) 58
40. T. Morgan and A. Peres, Gravitational news, *Nuovo Cim.* 27 (1963) 1266
41. A. Peres, Polynomial expansion of gravitational Lagrangian, *Nuovo Cim.* 28 (1963) 865
42. A. Peres, Gyro-gravitational ratio of Dirac particles, *Nuovo Cim.* 28 (1963) 1091
43. T. Morgan and A. Peres, Classical radiation recoil. II, *Phys. Rev.* 131 (1963) 494
44. C. Leibovitz and A. Peres, Energy balance of uniformly accelerated charge, *Ann. Phys. (N.Y.)* 25 (1963) 400
45. A. Peres, Interaction of quantized and unquantized systems, *Nucl. Phys.* 48 (1963) 622
46. Z. Grossmann and A. Peres, Classical theory of the Dirac electron, *Phys. Rev.* 132 (1963) 2346
47. A. Peres, On Dirac's wave equation in a gravitational field, *J. Math. Phys.* 5 (1964) 720
48. A. Peres and N. Rosen, Measurement of a quantum ensemble by a classical apparatus, *Ann. Phys. (N.Y.)* 29 (1964) 366
49. A. Peres, Commutation relations for energy momentum tensor, *Nuovo Cim.* 34 (1964) 340
50. A. Peres, Constancy of $e^2/\hbar c$ in a gravitational field, *Nuovo Cim.* 34 (1964) 343
51. A. Peres, Commutation relations for electromagnetic potentials, *Nuovo Cim.* 34 (1964) 346
52. A. Peres and N. Rosen, Macroscopic bodies in quantum theory, *Phys. Rev.* 135 (1964) B1486
53. A. Peres, Anomalous spinor equations, *Nucl. Phys.* 59 (1964) 615
54. M. Hofri and A. Peres, Matrix elements for polarized fermion scattering, *Nucl. Phys.* 59 (1964) 618
55. A. Peres, Feynman diagrams without field theory, *Phys. Rev.* 137 (1965) B696
56. A. Peres, Non-geodesic motion in general relativity, *Phys. Rev.* 137 (1965) B1126
57. A. Peres, Removal of infrared divergences, *Nuovo Cim.* 35 (1965) 322
58. A. Casher, G. Frieder, M. Glück, and A. Peres, Reducibility of parastatistics representations, *Nucl. Phys.* 66 (1965) 632
59. A. Peres, On Schwinger's parametrization of Feynman's graphs, *Nuovo Cim.* 38 (1965) 270
60. A. Peres, Quantum electrodynamics without indefinite metric, *J. Math. Phys.* 6 (1965) 1052
61. A. Peres, Causality in S-matrix theory, *Ann. Phys. (N.Y.)* 37 (1966) 179
62. A. Peres, Higher meson and baryon resonances in a SU(18) quark model, *Phys. Rev.* 145 (1965) 1269
63. A. Peres, Saturation of quark forces in zero-triality states, *Phys. Rev.* 149 (1966) 1131
64. A. Peres, Singular string of magnetic monopoles, *Phys. Rev. Letters* 18 (1967) 50
65. A. Peres, Spin correlation mediated by spinless particle, *Phys. Rev.* 160 (1967) 1549
66. A. Peres, Constancy of the fundamental electric charge, *Phys. Rev. Letter* 19 (1967) 1293
67. A. Peres, Realization of Poincaré group generators on a light cone, *J. Math. Phys.* 9 (1968) 785
68. G. Frieder and A. Peres, Analytic behavior of electron propagator for complex $e^2/\hbar c$, *Nucl. Phys.* B4 (1968) 306
69. A. Peres, Rotational invariance of magnetic monopoles, *Phys. Rev.* 167 (1968) 1449
70. A. Peres, Canonical quantization of gravitational field, *Phys. Rev.* 171 (1968) 1335
71. A. Peres, Renormalization of a finite matrix Hamiltonian, *J. Math. Phys.* 10 (1969) 629
72. A. Peres, Relativistic invariance without angular momentum conservation *Lett. Nuovo Cim.* 1 (1969) 245
73. A. Peres, Where are tachyons? *Lett. Nuovo Cim.* 1 (1969) 837
74. A. Peres, Faster than light signals, *Prog. Math. (Allahabad)* 3 (1969) 38
75. A. Peres, Gravitational field of a tachyon, *Phys. Lett.* A31 (1970) 361
76. A. Peres, Bogoliubov causality in S-matrix theory, *Nucl. Phys.* B23 (1970) 125
77. A. Peres, Interference of divergences in quantum field theory, *Lett. Nuovo Cim.* 2 (1971) 115
78. A. Peres, A new pastime—calculating α to one part in a million, *Phys. Today* 24 (Nov. 1971) 9 (L)

79. A. Peres, Relativistic dynamics with noncanonical positions, *Phys. Rev. Letters* 27 (1971) 1666; 28 (1972) 392 (E)
80. A. Peres, The gravitational red shift: a three body effect, *Am. J. Phys.* 40 (1972) 398
81. A. Peres and L. S. Schulman, Signals from the future, *Int. J. Theor. Phys.* 6 (1972) 377
82. A. Peres, Internal coordinated for a system of fermions, *Lett. Nuovo Cim.* 3 (1972) 611
83. A. Peres, Relativistic wavefunctions for composite particles, *Nuovo Cim.* A10 (1972) 230
84. A. Peres and L. S. Schulman, Existence theorem for some differential equations with advanced interactions, *Phys. Rev. D5* (1972) 2654
85. A. Peres, Muon decay and equivalence principle, *Lett. Nuovo Cim.* 9 (1974) 146
86. A. Peres, Quantum measurements are reversible, *Am. J. Phys.* 42 (1974) 886
87. A. Dar, J. Grunzweig-Genossar, A. Peres, M. Revzen, and A. Ron, Slowing-down of ions by ultra-high density electron plasma, *Phys. Rev. Letters* 32 (1974) 1299
88. A. Peres and D. Shvarts, Fusion chain reaction. Chain reaction with charged particles, *Nucl. Fusion* 15 (1975) 687
89. A. Peres, A single system has no state, *Am. J. Phys.* 43 (1975) 1015
90. A. Peres and A. Ron, Plasma screening effect in ion-ion scattering, *Phys. Rev.* A13 (1976) 417
91. A. Peres, Unperformed experiments have no results, *Am. J. Phys.* 46 (1978) 745*
92. A. Peres, Diagonalization of the Weyl tensor, *Phys. Rev.* D18 (1978) 608
93. A. Peres, Synchronization of clocks in a rotating frame, *Phys. Rev.* D18 (1978) 2173
94. A. Peres, Test of equivalence principle for particles with spin, *Phys. Rev.* D18 (1978) 2739
95. Y. Afek, A. Dar, A. Peres, A. Ron, R. Shachar, and D. Shvarts, The fusion of suprathemal ions in a dense plasma, *J. Phys.* D11 (1978) 2171
96. A. Peres, Low energy proton-proton scattering, *Nucl. Phys.* A312 (1978) 291
97. A. Peres, Proposed test for complex versus quaternion quantum theory, *Phys. Rev. Letters* 42 (1979) 683
98. A. Peres, Fusion cross sections and thermonuclear reaction rates, *J. Appl. Phys.* 50 (1979) 5569
99. A. Peres, A classical constant of motion with discontinuities, *J. Phys.* A12 (1979) 1711
100. A. Peres, Tomographic reconstruction from limited angular data, *J. Comp. Asst. Tomogr.* 3 (1979) 800
101. A. Peres, Beats of electron waves do not radiate, *Phys. Rev.* A20 (1979) 2627
102. A. Peres, Finite rotations and angular velocity, *Am. J. Phys.* 48 (1980) 70
103. A. Peres, Measurement of time with quantum clocks, *Am. J. Phys.* 48 (1980) 552
104. A. Peres, Barrier penetration via perturbation theory, *J. Phys.* A13 (1980) 2979
105. A. Peres, Zeno paradox in quantum theory, *Am. J. Phys.* 48 (1980) 931
106. A. Peres, The physicist's role in physical laws, *Found. Phys.* 10 (1980) 631
107. S. J. Feingold and A. Peres, How often are Bell's inequality premises violated? *J. Phys.* A13 (1980) 3187
108. A. Peres, Can we undo quantum measurements? *Phys. Rev.* D22 (1980) 879[†]
109. A. Peres, Nonexponential decay law, *Ann. Phys. (N.Y.)* 129 (1980) 33
110. A. Peres, Asymmetric synthesis in a spinning vessel, *J. Am. Chem. Soc.* 102 (1980) 7389
111. A. Peres, Relativity, quantum theory, and statistical mechanics are compatible, *Phys. Rev.* D23 (1981) 1458
112. A. Peres, M. Revzen, and A. Ron, Calculation of localization length in disordered chains, *Phys. Rev.* B24 (1981) 7463
113. A. Peres, Inequivalent ensembles of random chains, *Phys. Rev.* B25 (1982) 5538
114. S. J. Feingold and A. Peres, Linear stability test for Hamiltonian orbits, *Phys. Rev.* A26 (1982) 2368
115. A. Peres and W. H. Zurek, Is quantum theory universally valid? *Am. J. Phys.* 50 (1982) 807
116. A. Peres, Recurrence phenomena in quantum dynamics, *Phys. Rev. Letters* 49 (1982) 1118
117. A. Peres, Transfer matrices for one-dimensional potentials, *J. Math. Phys.* 24 (1983) 1110

*reprinted in "Foundations of Quantum Mechanics since the Bell Inequalities: Selected Reprints" ed. by L. E. Ballentine (Am. Assoc. Phys. Teachers, 1988) p. 100

[†]reprinted in "Quantum Theory and Measurement" ed. by J. A. Wheeler and W. H. Zurek (Princeton Univ. Press, 1983) p. 692

118. A. Peres, Dirac-Schwinger commutation relations on a lattice, *Int. J. Theor. Phys.* 22 (1983) 355
119. A. Peres, Neutron propagation in moving matter, *Am. J. Phys.* 51 (1983) 947
120. A. Peres, Chaotic band structure of almost-periodic potentials, *Phys. Rev. B* 27 (1983) 6493
121. M. Feingold and A. Peres, Regular and chaotic motion of coupled rotators, *Physica D* 9 (1983) 433
122. N. Moiseyev and A. Peres, Motion of wave packets in regular and chaotic systems, *J. Chem. Phys.* 79 (1983) 5945
123. A. Peres, What is a state vector? *Am. J. Phys.* 52 (1984) 644
124. A. Peres, Ergodicity and mixing in quantum theory. I, *Phys. Rev. A* 30 (1984) 504
125. M. Feingold, N. Moiseyev, and A. Peres, Ergodicity and mixing in quantum theory. II, *Phys. Rev. A* 30 (1984) 509
126. A. Peres, On quantum mechanical automata, *Phys. Letters A* 101 (1984) 249
127. A. Peres, The classic paradoxes of quantum theory, *Found. Phys.* 14 (1984) 1131
128. A. Peres, Stability of quantum motion in regular and chaotic systems, *Phys. Rev. A* 30 (1984) 1610
129. A. Peres, New conserved quantities and test for regular spectra, *Phys. Rev. Letters* 53 (1984) 1711
130. A. Peres, Defining length, *Nature* 312 (1984) 10 (L)
131. A. Peres, Einstein, Gödel, Bohr, *Found. Phys.* 15 (1985) 197
132. E. Cohen and A. Peres, Multiple-time observables in quantum theory, *Phys. Rev. D* 31 (1985) 1525
133. M. Feingold and A. Peres, Regular and chaotic propagators in quantum theory, *Phys. Rev. A* 31 (1985) 2472
134. M. Feingold, N. Moiseyev and A. Peres, Classical limit of quantum chaos, *Chem. Phys. Lett.* 117 (1985) 344
135. A. Peres and W. K. Wootters, Quantum measurements of finite duration, *Phys. Rev. D* 32 (1985) 1968
136. A. Peres, Reversible logic and quantum computers, *Phys. Rev. A* 32 (1985) 3266
137. S. J. Feingold and A. Peres, Reality and the quantum theory, *Phys. Today* 38 (Nov. 1985) 15 (L)
138. A. Peres, When is a quantum measurement? *Am. J. Phys.* 54 (1986) 688
139. A. Peres, Existence of “free will” as a problem of physics, *Found. Phys.* 16 (1986) 573[‡]
140. M. Feingold and A. Peres, Distribution of matrix elements of chaotic systems, *Phys. Rev. A* 34 (1986) 591
141. A. Peres, Semiclassical properties of Wigner functions, *Phys. Scripta* 34 (1986) 736
142. A. Peres, Relativistic telemetry, *Am. J. Phys.* 55 (1987) 516
143. A. Peres, Schrödinger’s immortal cat, *Found. Phys.* 18 (1988) 57
144. A. Peres, How to differentiate between non-orthogonal states, *Phys. Lett. A* 128 (1988) 19
145. Y. Cohen, S. Katz, A. Peres, E. Santo and R. Yitzhaki, Stroboscopic views of regular and chaotic orbits, *Am. J. Phys.* 56 (1988) 1042
146. A. Peres, Construction of unitary matrices from observable transition probabilities, *Nucl. Phys. B, Proceedings Supplements* 6 (1989) 243[§]
147. A. Peres and L. S. Schulman, Quantum simulation of classically chaotic systems, *J. Phys. A* 21 (1988) 3893
148. A. Peres, Quantum limitations on measurement of magnetic flux, *Phys. Rev. Lett.* 61 (1988) 2019
149. A. Peres, Quantum measurements with postselection, *Phys. Rev. Lett.* 62 (1989) 2326
150. A. Peres, Do electrons exist? *Physics Essays* 2 (1989) 288
151. A. Peres, Quantum limited detectors for weak classical signals, *Phys. Rev. D* 39 (1989) 2943
152. A. Peres, Nonlinear variants of Schrödinger’s equation violate the second law of thermodynamics, *Phys. Rev. Lett.* 63 (1989) 1114
153. A. Peres, Neumark’s theorem and quantum inseparability, *Found. Phys.* 20 (1990) 1441
154. A. Peres and A. Ron, Incomplete “collapse” and partial quantum Zeno effect, *Phys. Rev. A* 42 (1990) 5720
155. A. Peres, Incompatible results of quantum measurements, *Phys. Lett. A* 151 (1990) 107
156. A. Peres and W. K. Wootters, Optimal detection of quantum information, *Phys. Rev. Lett.* 66 (1991) 1119
157. A. Peres, Two simple proofs of the Kochen-Specker theorem, *J. Phys. A* 24 (1991) L175

[‡]reprinted in “Between Quantum and Cosmos” ed. by W. H. Zurek, A. van der Merwe and W. A. Miller (Princeton Univ. Press, 1988) p. 592

[§]reprinted in “Spacetime Symmetries” ed. by Y. S. Kim and W. W. Zachary (North-Holland, 1989) p. 243

158. A. Peres, Dynamical quasidegeneracies and quantum tunneling, *Phys. Rev. Lett.* 67 (1991) 158
159. A. Peres Recursive definition for elements of reality, *Found. Phys.* 22 (1992) 357
160. A. Peres Emergence of local realism in fuzzy observations of correlated quantum systems, *Found. Phys.* 22 (1992) 819
161. N. Gisin and A. Peres, Maximal violation of Bell's inequality for arbitrarily large spin, *Phys. Lett. A* 162 (1992) 15
162. A. Peres, An experimental test for Gleason's theorem, *Phys. Lett. A* 163 (1992) 243
163. A. Peres, Finite violation of a Bell inequality for arbitrarily large spin, *Phys. Rev. A* 46 (1992) 4413
164. O. Levin, Y. Peleg, and A. Peres, Quantum detector in an accelerated cavity, *J. Phys. A* 25 (1992) 6471
165. A. Peres, Multiple time scales for recurrences of Rydberg states, *Phys. Rev. A* 47 (1993) 5196
166. O. Levin, Y. Peleg, and A. Peres, Unruh effect for circular motion in a cavity, *J. Phys. A* 26 (1993) 3001
167. C. H. Bennett, G. Brassard, C. Crépeau, R. Jozsa, A. Peres, and W. K. Wootters, Teleporting an unknown quantum state via dual classical and EPR channels, *Phys. Rev. Lett.* 70 (1993) 1895[¶]
168. B. Huttner and A. Peres, Quantum cryptography with photon pairs, *J. Modern Optics* 41 (1994) 2397
169. C. H. Bennett, G. Brassard, R. Jozsa, D. Mayers, A. Peres, B. Schumacher, and W. K. Wootters, Reduction of quantum entropy by reversible extraction of classical information, *J. Modern Optics* 41 (1994) 2307
170. O. Levin and A. Peres, Some oddities of light-cone dynamics, *J. Phys. A* 27 (1994) L143
171. A. K. Ekert, B. Huttner, G. M. Palma, and A. Peres, Eavesdropping on quantum-cryptographical systems, *Phys. Rev. A* 50 (1994) 1047
172. O. Levin and A. Peres, Quantum field theory with null-fronted metrics, *Phys. D* 50 (1994) 7421
173. A. Peres, Time asymmetry in quantum mechanics: a retrodiction paradox, *Phys. Lett. A* 194 (1994) 21
174. A. Peres, The many faces of quantum chaos, *Chaos, Solitons & Fractals* 5 (1995) 1069^{||}
175. M. Kernaghan and A. Peres, Kochen-Specker theorem for 8-dimensional space, *Phys. Lett. A* 198 (1995) 1
176. O. E. Alon, N. Moiseyev, and A. Peres, Infinite matrices may violate the associative law, *J. Phys. A* 28 (1995) 1765
177. A. Peres, Nonlocal effects in Fock space, *Phys. Rev. Lett.* 74 (1995) 4571; 76 (1996) 2205 (E)
178. A. Peres, Higher order Schmidt decompositions, *Phys. Lett. A* 202 (1995) 16
179. A. Peres, Reply to the comment of Y. Aharonov and L. Vaidman on "Time asymmetry in quantum mechanics: a retrodiction paradox", *Phys. Lett. A* 203 (1995) 150
180. A. Peres and D. Terno, Evolution of the Liouville density of a chaotic system, *Phys. Rev. E* 53 (1996) 284
181. A. Peres, Generalized Kochen-Specker theorem, *Found. Phys.* 26 (1996) 807
182. A. Peres, Chaotic evolution of Liouville and Schrödinger functions, *Proc. Nat. Acad. Sci. (India) A* 66 (1996) 29
183. C. A. Fuchs and A. Peres, Quantum state disturbance versus information gain: uncertainty relations for quantum information, *Phys. Rev. A* 53 (1996) 2038
184. A. Peres, Chaotic evolution in quantum mechanics, *Phys. Rev. E* 53 (1996) 4524
185. A. Peres, Quantum cryptography with orthogonal states? *Phys. Rev. Lett.* 77 (1996) 3264
186. A. Peres, Collective tests for quantum nonlocality, *Phys. Rev. A* 54 (1996) 2685
187. A. Peres, Separability criterion for density matrices, *Phys. Rev. Lett.* 77 (1996) 1413
188. D. P. DiVincenzo and A. Peres, Quantum codewords contradict local realism, *Phys. Rev. A* 55 (1997) 4089
189. C. A. Fuchs, N. Gisin, R. B. Griffiths, C.-S. Niu, and A. Peres, Optimal eavesdropping in quantum cryptography. I. Information bound and optimal strategy, *Phys. Rev. A* 56 (1997) 1163
190. A. Peres, Quantum entanglement: criteria and collective tests, *Physica Scripta* T76 (1998) 52**
191. A. Peres, Quantum disentanglement and computation, *Superlattices and Microstructures* 23 (1998) 373

[¶]reprinted in "Quantum Computation and Quantum Information Theory" ed. by C. Macchiavello, G. M. Palma and A. Zeilinger (World Scientific, Singapore, 2000) p. 35

^{||}reprinted in "The Interplay Between Classical and Quantum Mechanics" ed. by M. C. Gutzwiller, (Am. Assoc. Phys. Teachers, 2001) p. 50

**reprinted in "Modern Studies of Basic Quantum Concepts and Phenomena," Proceedings of Nobel Symposium 104, ed. by E. B. Karlsson and E. Brändas (World Scientific, 1998)

192. A. Peres, Interpreting the quantum world, *Stud. History and Philosophy of Mod. Phys.* 29 (1998) 611
193. A. Peres, The quantum challenge: modern research on the foundations of quantum mechanics, *Am. J. Phys.* 66 (1998) 455
194. O. Hay and A. Peres, Quantum and classical descriptions of a measuring apparatus, *Phys. Rev. A* 58 (1998) 116
195. A. Peres and D. R. Terno, Optimal distinction between non-orthogonal quantum states, *J. Phys. A* 31 (1998) 7105
196. A. Peres and D. R. Terno, Convex probability domain of generalized quantum measurements, *J. Phys. A* 31 (1998) L671
197. A. Peres, All the Bell inequalities, *Found. Phys.* 28 (1999) 589
198. A. Peres, Error symmetrization in quantum computers, *Int. J. Theor. Phys.* 38 (1999) 799
199. A. Peres, Delayed choice for entanglement swapping, *J. Modern Optics* 47 (2000) 139
200. A. Peres, Bayesian analysis of Bell inequalities, *Fort. Phys.* 48 (2000) 531
201. A. Peres, Classical interventions in quantum systems. I. The measuring process, *Phys. Rev. A* 61 (2000) 022116
202. A. Peres, Classical interventions in quantum systems. II. Relativistic invariance, *Phys. Rev. A* 61 (2000) 022117
203. D. Bruß and A. Peres, Construction of quantum states with bound entanglement, *Phys. Rev. A* 61 (2000) 030301
204. C. A. Fuchs and A. Peres, Quantum theory needs no “interpretation”, *Physics Today* 53 (March 2000) 70
205. A. Peres, Impossible things usually don’t happen, *Physics World* 13 (May 2000) 47
206. A. Peres, Opposite momenta lead to opposite directions, *Am. J. Phys.* 68 (2000) 991
207. C. A. Fuchs and A. Peres, Quantum theory—interpretation, formulation, inspiration (reply to comments) *Physics Today* 53 (September 2000) 14
208. H. Bechmann-Pasquinucci and A. Peres, Quantum cryptography with 3-state systems, *Phys. Rev. Lett.* 85 (2000) 3313
209. A. Peres and D. R. Terno, Hybrid classical-quantum dynamics, *Phys. Rev. A* 63 (2001) 022101
210. A. Peres and P. F. Scudo, Entangled quantum states as direction indicators, *Phys. Rev. Lett.* 86 (2001) 4160
211. A. Peres and P. F. Scudo, Transmission of a Cartesian frame by a quantum system, *Phys. Rev. Lett.* 87 (2001) 167901
212. A. Peres, Reply to Comment on “Classical interventions in quantum systems. II. Relativistic invariance”, *Phys. Rev. A* 64 (2001) 066102
213. A. Peres, Karl Popper and the Copenhagen interpretation, *Stud. History and Philosophy of Modern Physics* 33 (2002) 23
214. A. Peres and P. F. Scudo, Covariant quantum measurements may not be optimal, *J. Modern Optics* 49 (2002) 1235
215. A. Peres and D. R. Terno, Lorentz transformations of open systems, *J. Modern Optics* 49 (2002) 1255
216. A. Peres, P. F. Scudo, and D. R. Terno, Quantum entropy and special relativity, *Phys. Rev. Lett.* 88 (2002) 230402
217. A. Peres, How the no-cloning theorem got its name, *Fort. Phys.* 51 (2003) 458
218. A. Peres, What’s wrong with these observables?, *Found. Phys.* 33 (2003) 1543
219. A. Peres and D. R. Terno, Relativistic Doppler effect in quantum communication, *J. Modern Optics* 50 (2003) 1165
220. N. H. Lindner, A. Peres, and D. R. Terno, Wigner’s little group and Berry’s phase for massless particles, *J. Phys. A* 36 (2003) L449
221. A. Peres and D. R. Terno, Quantum information and special relativity, *Internat. J. Quantum Information*, 1 (2003) 225
222. N. H. Lindner, A. Peres, and D. R. Terno, Elliptic Rydberg states as direction indicators, *Phys. Rev. A* 68 (2003) 042308

223. A. Peres, Variability of fundamental constants, *Int. J. Mod. Phys. D* 12 (2003) 1751
224. A. Peres and D. R. Terno, Quantum information and relativity theory, *Rev. Mod. Phys.* 76 (2004) 93
225. A. Peres, Quantum information and general relativity, *Fortsch. Phys.* 52 (2004) 1052
226. A. Peres, What is actually teleported? *IBM Journal of Research and Development* 48 (2004) in press (<http://www.research.ibm.com/journal/rd48-1.html>)
227. A. Peres, Einstein, Podolsky, Rosen, and Shannon, *Found. Phys.* 34 (2004) in press quant-ph/0310010
228. N. H. Lindner and A. Peres, Testing quantum superpositions of the gravitational field with Bose-Einstein condensates, *Phys. Rev. A* 71 (2005) 024101
229. A. Peres, P. F. Scudo, and D. R. Terno, Reply to Comment on “Quantum entropy and special relativity”, *Comment to Phys. Rev. Lett.* 94 (2005) 078902
230. A. Peres, Relativity in rotating frames, *subm. to Am. J. Phys.* gr-qc/0401043
231. A. Peres, Finite precision measurement nullifies Euclid’s postulates, *subm. to Comment to Phys. Rev. Letters* quant-ph/0310035

C. Articles in books

1. J. Bernard, A. Gautier and A. Peres, *Methodes de determination des contraintes thermiques*, P/1164, Geneva Conf. on Peaceful Uses of Atomic Energy (1958)
2. A. Peres and N. Rosen, Some investigations of the gravitational field equations, in “*Les Theories Relativistes de la Gravitation*” (Ed. CNRS, Paris, 1962) p. 415
3. A. Peres, Motion and radiation of pole particles, in “*Recent Developments of General Relativity*” (Pergamon Press - PWN, 1962) p. 361
4. A. Peres and N. Rosen, Boundary conditions in general relativity theory, in “*Recent Developments of General Relativity*” (Pergamon Press - PWN, 1962) p. 367
5. A. Peres, Energy-momentum tensors, in “*Perspectives in Geometry and Relativity*” (Indiana Univ. Press, 1966) p. 274
6. A. Peres, Invariant evolution of gravitational field, in “*Relativity and Gravitation*” (Gordon and Breach, New York, 1971) p. 269
7. A. Peres, Relativistic canonical dynamics, *Symposia Mathematica* 12 (1973) 61
8. C. Abulaffio and A. Peres, Phase shift analysis of nD , nT , DD , DT , TT , αD and αT cross sections, in “*Nuclear Cross Sections and Technology*” (NBS Special Pub. 425, Washington, D. C., 1975) p. 701
9. A. Peres, Can quantized gravity be observed? in “*8th International Conf. on General Relativity and Gravitation*” (Univ. of Waterloo, 1977) p. 284
10. A. Peres, Pure states, mixtures, and compounds, in “*Mathematical Foundations of Quantum Theory*” (Academic Press, New York, 1978) p. 357
11. A. Peres, Regular and irregular energy spectra, in “*Chaotic Behavior in Quantum Systems*” (Plenum Press, New York, 1985) p. 165
12. A. Peres, Continuous monitoring of quantum systems, in “*Information Complexity and Control in Quantum Physics*” (Springer Verlag, Wien, 1987) p. 235
13. A. Peres, When is a quantum measurement? in “*New Techniques and Ideas in Quantum Measurement Theory*” *Ann. New York Acad. Sc.* 480 (1986) 438
14. A. Peres and A. Ron, Cryptodeterminism and quantum theory, in “*Microphysical Reality and Quantum Formalism*” (Kluwer, Dordrecht, 1988) p. 115
15. A. Peres, Quantum chaos and the measurement problem, in “*Quantum Measurements and Chaos*” (Plenum Press, New York, 1987) p. 59
16. A. Peres, Quantum chaos and irreversibility, in “*Symposium on the Foundations of Modern Physics: The Copenhagen Interpretation 60 Years after the Como Lecture*” ed. by P. Lahti and P. Mittelstaedt (World Scientific, Singapore, 1987) pp. 485–504
17. A. Peres, The logic of quantum nonseparability, in “*Bell’s Theorem, Quantum Theory, and Conceptions of the Universe*” (Kluwer, 1989) p. 51

18. A. Peres, Thermodynamic constraints on quantum axioms, in “Complexity, Entropy, and the Physics of Information” Santa Fe Institute Studies in the Sciences of Complexity, ed. by W. H. Zurek, vol. VIII (Addison-Wesley, Reading, MA, 1990), pp. 345–356
19. A. Peres, The grammar and syntax of quantum theory, in “Developments in General Relativity, Astrophysics and Quantum Theory” ed. by F. Cooperstock, L. P. Horwitz and J. Rosen, Ann. Phys. Soc. Israel, vol 9 (1990) pp. 255–267
20. A. Peres, Consecutive quantum measurements, in “The Measurement Problem of Quantum Theory” ed. by M. Cini and J.-M. Levy-Leblond (Adam Hilger, Bristol, 1990), pp. 122–139.
21. A. Peres, Instability of quantum motion of a chaotic system, in “Quantum Chaos: Proceedings of the Adriatico Research Conference on Quantum Chaos” ed. by H. A. Cerdeira, R. Ramaswamy, M. C. Gutzwiller, and G. Casati (World Scientific, Singapore, 1991) pp. 73–102
22. A. Peres, Axiomatic quantum phenomenology, in “Symposium on the Foundations of Modern Physics: Quantum Theory of Measurement and Related Philosophical Problems” ed. by P. Lahti and P. Mittelstaedt (World Scientific, Singapore, 1991) pp. 317–331
23. A. Peres, Looking at the quantum world with classical eyes, in “Quantum Chaos—Quantum Measurements” ed. by P. Cvitanović, I. Percival and A. Wirzba (Kluwer, Dordrecht, 1992) pp. 249–256
24. O. Levin, Y. Peleg, and A. Peres, Bell’s detector of vacuum fluctuations, in “Bell’s Theorem and the Foundations of Modern Physics” ed. by A. van der Merwe, F. Selleri, and G. Tarozzi (World Scientific, Singapore, 1993) pp. 342–346
25. A. Peres, Quantum mechanics and objectivity: an analysis of some paradoxes, in “Foundations of Modern Physics 1992” ed. by K. V. Laurikainen and C. Montonen (World Scientific, Singapore, 1993) pp. 57–78
26. A. Peres, Storage and retrieval of quantum information, in “Workshop on Physics and Computation, PhysComp 92” (IEEE Computer Society Press, 1993) pp. 155–158
27. A. Peres, Classification of quantum paradoxes: nonlocality vs. contextuality, in “The Interpretation of Quantum Theory: Where do we Stand?” ed. by L. Accardi, Enciclopedia Italiana (1994) pp. 117–135
28. A. Peres, Relativistic quantum measurements, in “Fundamental Problems in Quantum Theory” ed. by D. M. Greenberger and A. Zeilinger, Ann. New York Acad. Sci. 755 (1995) pp. 445–450
29. A. Peres, From E.P.R. to G.H.Z.: Conference highlights, in “The dilemma of Einstein, Podolsky and Rosen – 60 years later” ed. by A. Mann and M. Revzen, Ann. Phys. Soc. Israel 12 (1996) pp. 305–314
30. A. Peres, Quantum inseparability and free will, in “Vastakohtien todellisuus” ed. by U. Ketvel (University of Helsinki Press, 1996) pp. 117–121
31. A. Peres, Quaternionic quantum interferometry, in “Quantum Interferometry” ed. by F. De Martini, G. Denardo and Y. Shih (VCH Publ., 1996) pp. 431–437
32. A. Peres, Error correction and symmetrization in quantum computers, in “PhysComp96” ed. by T. Toffoli, M. Biafore and J. Leão (New England Complex Systems Inst., 1996) pp. 275–277
33. A. Peres, Bell inequalities with postselection, in “Potentiality, Entanglement and Passion-at-a-Distance: Essays for Abner Shimony” ed. by R. S. Cohen, M. Horne, and J. Stachel (Kluwer, 1997) pp. 191–196
34. A. Peres, Quantum nonlocality and inseparability, in “New Developments on Fundamental Problems in Quantum Physics” ed. by M. Ferrero and A. van der Merwe (Kluwer, 1997) pp. 301–310
35. A. Peres, Unitary dynamics for quantum codewords, in “Quantum Communication, Computing and Measurement” ed. by O. Hirota, A. S. Holevo, and C. M. Caves (Plenum, 1997) pp. 171–179
36. A. Peres, The ambivalent quantum observer, in “Quantum Classical Correspondence” ed. by D. H. Feng and B. L. Hu (International Press, 1997) pp. 57–68
37. A. Peres, Critique of the Wheeler-DeWitt equation, in “On Einstein’s path” ed. by A. Harvey (Springer, 1998) pp. 367–379
38. O. Hay and A. Peres, Dual classical and quantum descriptions of a measuring apparatus, in “Quantum Communication, Computing and Measurement II” ed. by P. Kumar, G. M. D’Ariano, and O. Hirota (Kluwer/Plenum, 2000) pp. 117–124
39. A. Peres and P. F. Scudo, Unspeakable quantum information, in “Quantum Theory: Reconsideration of Foundations”, ed. by A. Khrennikov; series “Math. Modelling in Physics, Engineering and Cognitive Sciences” Växjö Univ. Press (2002) pp. 283–298.

D. Articles of general interest

1. A. Peres, Standard referee's report, Phys. Today 35 (July 1982) 15 (L)
2. A. Peres, Obituary: Nathan Rosen, Physics World 13 (Feb. 1996) 49
3. P. G. Bergmann, E. Merzbacher, and A. Peres, Obituary: Nathan Rosen, Physics Today 49 (March 1996) 120
4. A. Peres, Obituary: Nathan Rosen, Found. Phys. 26 (1996) 289
5. A. Peres, No discrimination against Arabs, APS News 12 (Aug. 2003) 4
6. A. Peres, I am the cat who walks by himself, to be published in a special volume of Foundations of Physics honoring the 70th birthday of the Author physics/0404085