

References

- [1] I.K. Affleck and J.B. Marston. *Phys. Rev.*, **B37**:3774, 1988.
- [2] S.C. Anco and G. Bluman. *Phys. Rev. Lett.*, **78**:2869, 1997.
- [3] P.W. Anderson. *Phys. Rev.*, **130**:439, 1963.
- [4] D. Arovas, J.R. Schrieffer, F. Wilczek, and A. Zee. *Nucl. Phys.*, **B251**:117, 1985.
- [5] J. Bardeen, L.N. Cooper, and J.R. Schrieffer. *Phys. Rev.*, **108**:1975, 1957.
- [6] V Bargmann and E.P. Wigner. *Proc. Natl. Acad. Sci.*, **34**:211, 1948.
- [7] G. Benivegna and A. Messina. *J. Phys.*, **A27**:L625, 1994.
- [8] H.A. Bethe and E.E. Salpeter. *Handbuch der Physik*, **XXXV/1**:(Springer Verlag, Berlin), 1957.
- [9] B. Binegar. *J. Math Phys.*, **23**:1511, 1982.
- [10] R. Brauer and H. Weyl. *Am. J. Math.*, page 425, 1935.
- [11] M. Burgess. Gauge invariance and disequilibrium in Chern–Simons theory. Proceedings of the third workshop on thermal fields and their applications (World Scientific, Singapore), 1993.
- [12] M. Burgess. *Phys. Rev. Lett.*, **72**:2823, 1994.
- [13] M. Burgess. *Phys. Rev.*, **D52**:7103, 1995.
- [14] M. Burgess and M. Carrington. *Phys. Rev.*, **B52**:5052, 1995.
- [15] M. Burgess and B. Jensen. *Phys. Rev.*, **A48**:1861, 1993.
- [16] M. Burgess, J.M. Leinaas, and O.M. Løvvik. *Phys. Rev.*, **B48**:12912, 1993.
- [17] M. Burgess, A. McLachlan, and D.J. Toms. *Phys. Rev.*, **D43**:1956, 1991.
- [18] M. Burgess, A. McLachlan, and D.J. Toms. *Int. J. Mod. Phys.*, **A8**:2623, 1993.
- [19] M. Burgess and D.J. Toms. *Phys. Lett.*, **B252**:596, 1990.
- [20] M. Burgess and D.J. Toms. *Phys. Rev. Lett.*, **64**:1639, 1990.
- [21] M. Burgess and D.J. Toms. *Ann. Phys. (New York)*, **210**:438–463, 1991.

- [22] W.K. Burton. *Nuovo Cimento*, **1**:355, 1955.
- [23] G.G. Callan, S. Soleman, and R. Jackiw. *Ann. Phys. (N.Y.)*, **59**:42, 1970.
- [24] S.M. Carroll, G.B. Field, and R. Jackiw. *Phys. Rev.*, **D41**:1231, 1990.
- [25] P.A. Cherenkov. *C.R. Acad. Sci. (USSR)*, **3**:413, 1936.
- [26] N.A. Chernikov and E.A. Tagirov. *Ann. Inst. Henri Poincaré*, **9A**:109, 1968.
- [27] S. Coleman. *Commun. Math. Phys.*, **31**:264, 1975.
- [28] S. Coleman and E. Weinberg. *Phys. Rev.*, **7**:1888, 1973.
- [29] R.C. da Costa. *Phys. Rev.*, **A23**:1982, 1981.
- [30] R.C. da Costa. *Phys. Rev.*, **A25**:2893, 1982.
- [31] C.G. Darwin. *Proc. Roy. Soc. (London)*, **A118**:654, 1928.
- [32] A.T. Davies and A. McLachlan. *Phys. Lett.*, **B200**:305, 1988.
- [33] A.T. Davies and A. McLachlan. *Nucl. Phys.*, **B317**:237, 1989.
- [34] P.C.W. Davies. *The Forces of Nature* (Cambridge University Press, Cambridge), 1979.
- [35] S. Deser, R. Jackiw, and S. Templeton. *Ann. Phys.*, **140**:372, 1982.
- [36] S. Deser, R. Jackiw, and S. Templeton. *Phys. Rev. Lett.*, **48**:975, 1982.
- [37] R.H. Dicke. *Phys. Rev.*, **93**:99, 1954.
- [38] P.A.M. Dirac. *Proc. Roy. Soc. (London)*, **A117**:610, 1928.
- [39] G.V. Dunne, R. Jackiw, and C.A. Trugenberger. *Ann. Phys.*, **194**:197, 1989.
- [40] G.V. Dunne, R. Jackiw, and C.A. Trugenberger. *Mod. Phys. Lett.*, **A4**:1635, 1989.
- [41] F. Dyson. *Phys. Rev.*, **A75**:486, 1949.
- [42] F. Dyson. *Am. J. Phys.*, **58**:209, 1990.
- [43] S. Elitzur, G. Moore, A. Schwimmer, and N. Seiberg. *Nucl. Phys.*, **B326**:108, 1989.
- [44] E. Eriksen and J.M. Leinaas. *Physica Scripta*, **22**:199–202, 1980.
- [45] J. Fang and C. Fronsdal. *Phys. Rev.*, **D18**:3630, 1978.
- [46] R.P. Feynman. Spacetime approach to non-relativistic quantum mechanics. *Rev. Mod. Phys.*, **A20**:267, 1948.
- [47] R.P. Feynman. *Phys. Rev.*, **A76**:769, 1949.
- [48] R.P. Feynman. *Phys. Rev.*, **A80**:440, 1950.
- [49] R.P. Feynman. *Statistical Mechanics* (Addison Wesley, Redwood), 1972.
- [50] R.P. Feynman, R. Leighton, and M. Sands. *The Feynman Lectures on Physics* (Addison Wesley, California), 1964.
- [51] L.L. Foldy. *Phys. Rev.*, **87**:688, 1952.
- [52] L. Ford. *Phys. Rev.*, **D21**:933, 1980.
- [53] D. Forster. *Hydrodynamic Fluctuations, Broken Symmetry and Correlation Functions* (Addison Wesley, New York), 1975.

- [54] E. Fradkin. *Field Theories of Condensed Matter Systems. Frontiers in Physics* (Addison Wesley, New York), 1991.
- [55] C. Fronsdal. *Phys. Rev.*, **D18**:3624, 1978.
- [56] J. Fuchs and C. Schwigert. *Symmetries, Lie Algebras and Representations* (Cambridge University Press, Cambridge), 1997.
- [57] R. Gilmore. *Catastrophe Theory for Scientists and Engineers* (Dover, New York), 1981.
- [58] D.M. Gitman and A.L. Shelpin. *J. Math Phys.*, Gen. **30**:6093, 1997.
- [59] J. Goldstone. *Nuovo Cimento*, **19**:154, 1961.
- [60] J. Goldstone, A. Salam, and S. Weinberg. *Phys. Rev.*, **127**:965, 1962.
- [61] R.H. Good. *Rev. Mod. Phys.*, **27**:187, 1955.
- [62] W. Gordon. *Z. Phys.*, **48**:11, 1928.
- [63] I.S.Gradshteyn and I.M.Ryzhik. *Table of Integrals, Series and Products (5th edn)* (Academic Press, New York), 1994.
- [64] C.R. Hagen. *Ann. Phys.*, **157**:342, 1984.
- [65] F.D.M. Haldane and E.H. Rezeyi. *Phys. Rev.*, **B31**:2529, 1985.
- [66] B.I. Halperin, T.C. Lubensky, and S. Ma. *Phys. Rev. Lett.*, **32**:292, 1974.
- [67] P. Havas. *Nuovo Cimento (Suppl.)*, **5**:363, 1957.
- [68] P.W. Higgs. *Phys. Lett.*, **12**:132, 1964.
- [69] P.W. Higgs. *Phys. Rev. Lett.*, **13**:508, 1964.
- [70] P.W. Higgs. *Phys. Rev.*, **145**:1156, 1966.
- [71] V. Hnizdo. *Am. J. Phys.*, **65**:55, 1997.
- [72] Y. Hosotani. *Phys. Lett.*, **B126**:309, 1983.
- [73] L.D. Huff. *Phys. Rev.*, **38**:501, 1931.
- [74] R. Hughes. *Am. J. Phys.*, **60**:301, 1992.
- [75] E.A. Hylleraas. *Z. Phys.*, **140**:626, 1955.
- [76] R. Jackiw. *Phys. Rev.*, **D41**:1635, 1978.
- [77] R. Jackiw and V.P. Nair. *Phys. Rev. Lett.*, **43**:1933, 1991.
- [78] R. Jackiw and S.Y. Pi. *Phys. Rev.*, **D42**:3500–3513, 1990.
- [79] E.T. Jaynes and F.W. Cummings. *Proc. IEEE*, **51**:89, 1963.
- [80] H. Jensen and H. Koppe. *Ann. Phys.*, **63**:586, 1971.
- [81] M.H. Johnson and B.A. Lippmann. *Phys. Rev.*, **76**:828, 1949.
- [82] R. Kubo. *J. Phys. Soc. Jap.*, **12**:570, 1957.
- [83] M. G. G. Laidlaw and C. M. DeWitt. *Phys. Rev.*, **D3**:1375, 1971.
- [84] G. Landi and C. Rovelli. *Phys. Rev. Lett.*, **78**:3051, 1997.
- [85] R.B. Laughlin. *Ann. Phys.*, **191**:163, 1989.

- [86] I.D. Lawrie. *Nucl. Phys.*, **B200**[FS4]:1, 1982.
- [87] G. L  ders. *Kong. Dansk. Vid. Selskab, Mat-Fys. Medd.*, **28**:5, 1954.
- [88] G. L  ders. *Ann. Phys.*, **2**:1, 1957.
- [89] J.M. Leinaas and J. Myrheim. *Nuovo Cimento*, **B37**:1, 1977.
- [90] E.M. Lifshitz and L.P. Pitaevskii. *Physical Kinetics* (Pergamon Press, Oxford), 1981.
- [91] P. Mandel and E Wolf. *Optical Coherence and Quantum Optics* (Cambridge University Press, Cambridge), 1995.
- [92] J.B. Marston and I. Affleck. *Phys. Rev.*, **B39**:11538, 1989.
- [93] P.C. Martin and J. Schwinger. *Phys. Rev.*, **115**:1342, 1959.
- [94] S. Matsutani. *J. Phys. Soc. Jap.*, **61**:55, 1992.
- [95] S. Matsutani and H. Tsuru. *Phys. Rev.*, **A46**:1144, 1992.
- [96] W.G. McKay and J. Patera. *Tables of Dimensions, Indices and Branching Rules for Representations of Simple Lie Algebras* (Dekker, New York), 1981.
- [97] N.D. Mermim and H. Wagner. *Phys. Rev. Lett.*, **17**:1133, 1966.
- [98] N.F. Mott. *Proc. Roy. Soc. (London)*, **A124**:425, 1929.
- [99] Y. Nambu. *Phys. Rev. Lett.*, **4**:380, 1960.
- [100] Y. Nambu and G. Jona-Lasinio. *Phys. Rev.*, **122**:345, 1961.
- [101] T.D. Newton and E.P. Wigner. *Rev. Mod. Phys.*, **21**:400, 1949.
- [102] W. O'Reilly. *Rock and Mineral Magnetism* (Blackie, London), 1884.
- [103] W. Pauli. *Ann. Inst. Henri Poincar  *, **6**:137, 1936.
- [104] W. Pauli. *Rev. Mod. Phys.*, **13**:203, 1941.
- [105] W. Pauli. *Nuovo Cimento*, **6**:204, 1957.
- [106] I.I. Rabi. *Z. Phys.*, **49**:7, 1928.
- [107] F. Reif. *Fundamentals of Statistical Mechanics* (McGraw-Hill, Singapore), 1965.
- [108] L.H. Ryder. *Quantum Field Theory* (Cambridge University Press, Cambridge), 1985.
- [109] F. Sauter. *Z. Phys.*, **69**:742, 1931.
- [110] J. Schonfeld. *Nucl. Phys.*, **B185**:157, 1981.
- [111] B. Schutz. *Geometrical Methods of Mathematical Physics* (Cambridge University Press, Cambridge), 1980.
- [112] S. Schweber. *Relativistic Quantum Field Theory* (Harper and Row, New York), 1961.
- [113] J. Schwinger. *Proc. Natl. Acad. Sci.*, **A37**:452, 1951.
- [114] J. Schwinger. *Phys. Rev.*, **82**:664, 1951.
- [115] J. Schwinger. *Phys. Rev.*, **82**:914, 1951.
- [116] J. Schwinger. *J. Math. Phys.*, **2**:407, 1961.

- [117] J. Schwinger. *Phys. Rev.*, **125**:397, 1962.
- [118] J. Schwinger. *Phys. Rev.*, **152**:1219, 1966.
- [119] J. Schwinger. *Particles, Sources and Fields (Volume 1)* (Addison Wesley, California), 1970.
- [120] J. Schwinger. *Quantum Kinematics and Dynamics* (Addison Wesley, New York), 1991.
- [121] J. Schwinger, L.L. DeRaad, K.A. Milton, and W. Tsai. *Classical Electrodynamics* (Perseus Books, Reading), 1998.
- [122] J. Schwinger, Wu-Yang Tsai, and Thomas Erber. *Ann. Phys.*, **96**:303, 1976.
- [123] C.E. Shannon and W. Weaver. *The Mathematical Theory of Communication* (University of Illinois Press, Urbana), 1949.
- [124] R. Slansky. *Phys. Rep.*, **79**(1):1–128, 1981.
- [125] K. Symanzik. *Zeit. f. Naturfor.*, **9a**:809, 1954.
- [126] G. 't Hooft. *Nucl. Phys.*, **B153**:141, 1979.
- [127] I.E. Tamm and I.M. Frank. *Dokl. Akad. Nauk. USSR*, **14**:109, 1937.
- [128] D.J. Toms. Private communication.
- [129] D.J. Toms. *Phys. Lett.*, **B126**:445, 1983.
- [130] N.J. Vilenkin. *Trans. Math. Mono.*, *Am. Math. Soc.*, **22**:447, 1968.
- [131] D.M. Volkow. *Z. Phys.*, **94**:25, 1935.
- [132] R.M. Wald. *Phys. Rev.*, **D33**:3613, 1986.
- [133] S. Weinberg. *Gravitation and Cosmology* (J. Wiley and Sons, New York), 1972.
- [134] S. Weinberg. *Physica*, **96A**:327, 1979.
- [135] S. Weinberg. *Prog. Theor. Phys.*, **86**:43, 1986.
- [136] S. Weinberg. *The Quantum Theory of Fields I,II,III* (Cambridge University Press, Cambridge), 1995–1999.
- [137] E. Wigner. *Ann. Math.*, **40**:149, 1939.
- [138] F. Wilczek. *Phys. Rev. Lett.*, **48**:3174, 1982.
- [139] K.G. Wilson. *Phys. Rev. B* **4**:1144, 1971.
- [140] S. Wong. *Nuovo Cimento*, **65A**:689, 1970.
- [141] C.N. Yang and R.L. Mills. *Phys. Rev.*, **96**:191, 1954.

