

References

- Araki, H., 1963: A lattice of von Neumann algebras associated with the quantum theory of free Bose field, *J. Math. Phys.* **4**, 1343–1362.
- Araki, H., 1964: Type of von Neumann algebra associated with free field, *Prog. Theor. Phys.* **32**, 956–854.
- Araki, H., 1970: On quasi-free states of CAR and Bogoliubov automorphisms, *Publ. RIMS Kyoto Univ.* **6**, 385–442.
- Araki, H., 1971: On quasi-free states of canonical commutation relations II, *Publ. RIMS Kyoto Univ.* **7**, 121–152.
- Araki, H., 1987: Bogoliubov automorphisms and Fock representations of canonical anti-commutation relations, *Contemp. Math.* **62**, 23–141.
- Araki, H., Shiraishi, M., 1971: On quasi-free states of canonical commutation relations I, *Publ. RIMS Kyoto Univ.* **7**, 105–120.
- Araki, H., Woods, E.J., 1963: Representations of the canonical commutation relations describing a non-relativistic infinite free Bose gas, *J. Math. Phys.* **4**, 637–662.
- Araki, H., Wyss, W., 1964: Representations of canonical anti-communication relations, *Helv. Phys. Acta* **37**, 139–159.
- Araki, H., Yamagami, S., 1982: On quasi-equivalence of quasi-free states of canonical commutation relations, *Publ. RIMS Kyoto Univ.* **18**, 283–338.
- Bär, C., Ginoux, N., Pfäffle, F., 2007: *Wave Equations on Lorentzian Manifolds and Quantization*, ESI Lectures in Mathematics and Physics, EMS, Zurich.
- Baez, J. C., Segal, I. E., Zhou, Z., 1991: *Introduction to Algebraic and Constructive Quantum Field Theory*, Princeton University Press, Princeton, NJ.
- Banaszek, K., Radzewicz, C., Wódkiewicz, K., Krasiński, J. S., 1999: Direct measurement of the Wigner function by photon counting, *Phys. Rev. A* **60**, 674–677.
- Bargmann, V., 1961: On a Hilbert space of analytic functions and an associated integral transform I, *Comm. Pure Appl. Math.* **14**, 187–214.
- Bauer, H., 1968: *Wahrscheinlichkeitstheorie und Grundzüge der Masstheorie*, Walter de Gruyter & Co, Berlin.
- Berezin, F. A., 1966: *The Method of Second Quantization*, Academic Press, New York and London.
- Berezin, F. A., 1983: *Introduction to Algebra and Analysis with Anti-Commuting Variables* (Russian), Moscow State University Publ., Moscow.
- Berezin, F. A., Shubin, M. A., 1991: *The Schrödinger Equation*, Kluwer Academic Publishers, Dordrecht.
- Bernal, A., Sanchez, M., 2007: Globally hyperbolic space-times can be defined as “causal” instead of “strongly causal”, *Classical Quantum Gravity* **24**, 745–749.
- Birke, L., Fröhlich, J., 2002: KMS, etc, *Rev. Math. Phys.* **14**, 829–871.
- Bloch, F., Nordsieck, A., 1937: Note on the radiation field of the electron, *Phys. Rev.* **52**, 54–59.
- Bogoliubov, N. N., 1947a: *J. Phys. (USSR)* **11**, reprinted in D. Pines, ed., *The Many-Body Problem*, W. A. Benjamin, New York, 1962.
- Bogoliubov, N. N., 1947b: About the theory of superfluidity, *Bull. Acad. Sci. USSR* **11**, 77–82.
- Bogoliubov, N. N., 1958: A new method in the theory of superconductivity I, *Sov. Phys. JETP* **34**, 41–46.

- Bratteli, O., Robinson D. W., 1987: *Operator Algebras and Quantum Statistical Mechanics, Volume 1*, 2nd edn., Springer, Berlin.
- Bratteli, O., Robinson D. W., 1996: *Operator Algebras and Quantum Statistical Mechanics, Volume 2*, 2nd edn., Springer, Berlin.
- Brauer, R., Weyl, H., 1935: Spinors in n dimensions. Amer. J. Math. **57**, 425–449.
- Brunetti, R., Fredenhagen, K., Köhler, M., 1996: The microlocal spectrum condition and Wick polynomials of free fields on curved space-times, Comm. Math. Phys. **180**, 633–652.
- Brunetti, R., Fredenhagen, K., Verch, R., 2003: The generally covariant locality principle: a new paradigm for local quantum physics, Comm. Math. Phys. **237**, 31–68.
- Cahill, K. E., Glauber, R. J., 1969: Ordered expansions in boson amplitude operators, Phys. Rev. **177**, 1857–1881.
- Carlen, E., Lieb, E., 1993: Optimal hyper-contractivity for Fermi fields and related non-commutative integration inequalities, Comm. Math. Phys. **155**, 27–46.
- Cartan, E., 1938: *Leçons sur la Théorie des Spineurs*, Actualités Scientifiques et Industrielles No 643 et 701, Hermann, Paris.
- Clifford, W. K., 1878: Applications of Grassmann's extensive algebra, Amer. J. Math. **1**, 350–358.
- Connes, A., 1974: Caractérisation des espaces vectoriels ordonnés sous-jacents aux algèbres de von Neumann, Ann. Inst. Fourier, **24**, 121–155.
- Cook, J., 1953: The mathematics of second quantization, Trans. Amer. Math. Soc. **74**, 222–245.
- Cornean, H., Dereziński, J., Ziń, P., 2009: On the infimum of the energy-momentum spectrum of a homogeneous Bose gas, J. Math. Phys. **50**, 062103.
- Davies, E. B., 1980: *One-Parameter Semi-Groups*, Academic Press, New York.
- Dereziński, J., 1998: Asymptotic completeness in quantum field theory: a class of Galilei covariant models, Rev. Math. Phys. **10**, 191–233.
- Dereziński, J., 2003: Van Hove Hamiltonians: exactly solvable models of the infrared and ultraviolet problem, Ann. Henri Poincaré **4**, 713–738.
- Dereziński, J., 2006: Introduction to representations of canonical commutation and anti-commutation relations. In *Large Coulomb Systems: Lecture Notes on Mathematical Aspects of QED*, J. Dereziński and H. Siedentop, eds, Lecture Notes in Physics **695**, Springer, Berlin.
- Dereziński, J., Gérard, C., 1999: Asymptotic completeness in quantum field theory: massive Pauli-Fierz Hamiltonians, Rev. Math. Phys. **11**, 383–450.
- Dereziński, J., Gérard, C., 2000: Spectral and scattering theory of spatially cut-off $P(\varphi)_2$ Hamiltonians, Comm. Math. Phys. **213**, 39–125.
- Dereziński, J., Gérard, C., 2004: Scattering theory of infrared divergent Pauli-Fierz Hamiltonians, Ann. Henri Poincaré **5**, 523–577.
- Dereziński, J., Jakšić, V., 2001: Spectral theory of Pauli-Fierz operators, J. Funct. Anal. **180**, 241–327.
- Dereziński, J., Jakšić, V., 2003: Return to equilibrium for Pauli-Fierz systems, Ann. Henri Poincaré **4**, 739–793.
- Dereziński, J., Jakšić, V., Pillet, C.-A., 2003: Perturbation theory of W^* -dynamics, Liouvilleans and KMS-states, Rev. Math. Phys. **15**, 447–489.
- Dimock, J., 1980: Algebras of local observables on a manifold, Comm. Math. Phys. **77**, 219–228.
- Dimock, J., 1982: Dirac quantum fields on a manifold, Trans. Amer. Math. Soc. **269**, 133–147.
- Dirac, P. A. M., 1927: The quantum theory of the emission and absorption of radiation, Proc. R. Soc. London A **114**, 243–265.
- Dirac, P. A. M., 1928: The quantum theory of the electron, Proc. R. Soc. London A **117**, 610–624.
- Dirac, P. A. M., 1930: A theory of electrons and protons, Proc. R. Soc. London A **126**, 360–365.
- Dixmier, J., 1948: Position relative de deux variétés linéaires fermées dans un espace de Hilbert, Rev. Sci. **86**, 387–399.
- Eckmann, J. P., Osterwalder, K., 1973: An application of Tomita's theory of modular algebras to duality for free Bose algebras, J. Funct. Anal. **13**, 1–12.

- Edwards, S., Peierls, P. E., 1954: Field equations in functional form, Proc. R. Soc. A **224**, 24–33.
- Emch, G., 1972: *Algebraic Methods in Statistical Mechanics and Quantum Field Theory*, Wiley-Interscience, New York.
- Feldman, J., 1958: Equivalence and perpendicularity of Gaussian processes, Pacific J. Math. **8**, 699–708.
- Fetter, A. L., Walecka, J. D., 1971: *Quantum Theory of Many-Particle Systems*, McGraw-Hill, New York.
- Fock, V., 1932: Konfigurationsraum und zweite Quantelung, Z. Phys. **75**, 622–647.
- Fock, V., 1933: Zur Theorie der Positronen, Doklady Akad. Nauk **6**, 267–271.
- Folland, G., 1989: *Harmonic Analysis in Phase Space*, Princeton University Press, Princeton, NJ.
- Friedrichs, K. O., 1953: *Mathematical Aspects of Quantum Theory of Fields*, Interscience Publishers, New York.
- Friedrichs, K. O., 1963: *Perturbation of Spectra of Operators in Hilbert Spaces*, AMS, Providence, RI.
- Fröhlich, J., 1980: Unbounded, symmetric semi-groups on a separable Hilbert space are essentially self-adjoint. Adv. Appl. Math. **1**, 237–256.
- Fröhlich, J., Simon, B., 1977: Pure states for general $P(\phi)_2$ theories: construction, regularity and variational equality, Ann. Math. **105**, 493–526.
- Fulling, S. A., 1989: *Aspects of Quantum Field Theory in Curved Space-Time*, Cambridge University Press, Cambridge.
- Furry, W. H., Oppenheimer, J. R., 1934: On the theory of electrons and positrons, Phys. Rev. **45**, 245–262.
- Gårding, L., Wightman, A. S., 1954: Representations of the commutation and anti-commutation relations, Proc. Nat. Acad. Sci. **40**, 617–626.
- Gelfand, I. M., Vilenkin, N. Y., 1964: *Applications of Harmonic Analysis, Generalized Functions* Vol. 4, Academic Press, New York.
- Gérard, C., Jaekel, C., 2005: Thermal quantum fields with spatially cut-off interactions in 1+1 space-time dimensions, J. Funct. Anal. **220**, 157–213.
- Gérard, C., Panati, A., 2008: Spectral and scattering theory for space-cutoff $P(\varphi)_2$ models with variable metric, Ann. Henri Poincaré **9**, 1575–1629.
- Gibbons, G. W., 1975: Vacuum polarization and the spontaneous loss of charge by black holes, Comm. Math. Phys. **44**, 245–264.
- Ginibre, J., Velo, G., 1985: The global Cauchy problem for the non-linear Klein–Gordon equation, Math. Z. **189**, 487–505.
- Glauber, R. J., 1963: Coherent and incoherent states, Phys. Rev. **131**, 2766–2788.
- Glimm, J., Jaffe, A., 1968: A $\lambda\phi^4$ quantum field theory without cutoffs, I, Phys. Rev. **176**, 1945–1951.
- Glimm, J., Jaffe, A., 1970a: The $\lambda\phi^4$ quantum field theory without cutoffs, II: the field operators and the approximate vacuum, Ann. Math. **91**, 204–267.
- Glimm, J., Jaffe, A., 1970b: The $\lambda\phi^4$ quantum field theory without cutoffs, III: the physical vacuum, Acta Math. **125**, 204–267.
- Glimm, J., Jaffe, A., 1985: *Collected Papers, Volume 1: Quantum Field Theory and Statistical Mechanics*, Birkhäuser, Basel.
- Glimm, J., Jaffe, A., 1987: *Quantum Physics: A Functional Integral Point of View*, 2nd edn, Springer, New York.
- Glimm, J., Jaffe, A., Spencer, T., 1974: The Wightman axioms and particle structure in the $P(\phi)_2$ quantum field model, Ann. Math. **100**, 585–632.
- Gross, L., 1972: Existence and uniqueness of physical ground states, J. Funct. Anal. **10**, 52–109.
- Grossman, M., 1976: Parity operator and quantization of δ -functions, Comm. Math. Phys. **48**, 191–194.
- Guerra, F., Rosen, L., Simon, B., 1973a: Nelson's symmetry and the infinite volume behavior of the vacuum in $P(\phi)_2$, Comm. Math. Phys. **27**, 10–22.

- Guerra, F., Rosen, L., Simon, B., 1973b: The vacuum energy for $P(\phi)_2$: infinite volume limit and coupling constant dependence, *Comm. Math. Phys.* **29**, 233–247.
- Guerra, F., Rosen, L., Simon, B., 1975: The $P(\phi)_2$ Euclidean quantum field theory as classical statistical mechanics, *Ann. Math.* **101**, 111–259.
- Guillemin, V., Sternberg, S., 1977: *Geometric Asymptotics*, Mathematical Surveys 14, AMS, Providence, RI.
- Haag, R., 1992: *Local Quantum Physics*, Texts and Monographs in Physics, Springer, Berlin.
- Haag, R., Kastler, D., 1964: An algebraic approach to quantum field theory, *J. Math. Phys.* **5**, 848–862.
- Haagerup, U., 1975: The standard form of a von Neumann algebra, *Math. Scand.* **37**, 271–283.
- Hajek, J., 1958: On a property of the normal distribution of any stochastic process, *Czechoslovak Math. J.* **8**, 610–618.
- Halmos, P. R., 1950: *Measure Theory*, Van Nostrand Reinhold, New York.
- Halmos, P. R., 1969: Two subspaces, *Trans. Amer. Math. Soc.* **144**, 381–389.
- Hardt, V., Konstantinov, A., Mennicken, R., 2000: On the spectrum of the product of closed operators, *Math. Nachr.* **215**, 91–102.
- Hepp, K., 1969: *Théorie de la Renormalisation*, Lecture Notes in Physics, Springer, Berlin.
- Høgh-Krohn, R., 1971: On the spectrum of the space cutoff $:P(\varphi)$: Hamiltonian in two space-time dimensions, *Comm. Math. Phys.* **21**, 256–260.
- Hörmander, L., 1985: *The Analysis of Linear Partial Differential Operators, III: Pseudo-Differential Operators*, Springer, Berlin.
- Iagolnitzer, D., 1975: Microlocal essential support of a distribution and local decompositions: an introduction. In *Hyperfunctions and Theoretical Physics*, Lecture Notes in Mathematics **449**, Springer, Berlin, pp. 121–132.
- Jakšić, V., Pillet, C. A., 1996: On a model for quantum friction, II: Fermi's golden rule and dynamics at positive temperature, *Comm. Math. Phys.* **176**, 619–644.
- Jakšić, V., Pillet, C. A., 2002: Mathematical theory of non-equilibrium quantum statistical mechanics. *J. Stat. Phys.* **108**, 787–829.
- Jauch, J. M., Röhrlich, F., 1976: *The Theory of Photons and Electrons*, 2nd edn, Springer, Berlin.
- Jordan, P., Wigner, E., 1928: Über das Paulische Äquivalenzverbot, *Z. Phys.* **47**, 631–651.
- Kallenberg, O., 1997: *Foundations of Modern Probability*, Springer Series in Statistics, Probability and Its Applications, Springer, New York.
- Kato, T., 1976: *Perturbation Theory for Linear Operators*, 2nd edn, Springer, Berlin.
- Kay, B. S., 1978: Linear spin-zero quantum fields in external gravitational and scalar fields, *Comm. Math. Phys.* **62**, 55–70.
- Kay, B. S., Wald, R. M., 1991: Theorems on the uniqueness and thermal properties of stationary, non-singular, quasi-free states on space-times with a bifurcate Killing horizon, *Phys. Rep.* **207**, 49–136.
- Kibble, T. W. B., 1968: Coherent soft-photon states and infrared divergences, I: classical currents, *J. Math. Phys.* **9**, 315–324.
- Klein, A., 1978: The semi-group characterization of Osterwalder–Schrader path spaces and the construction of Euclidean fields, *J. Funct. Anal.* **27**, 277–291.
- Klein, A., Landau, L., 1975: Singular perturbations of positivity preserving semi-groups, *J. Funct. Anal.* **20**, 44–82.
- Klein, A., Landau, L., 1981a: Construction of a unique self-adjoint generator for a symmetric local semi-group, *J. Funct. Anal.* **44**, 121–137.
- Klein, A., Landau, L., 1981b: Stochastic processes associated with KMS states, *J. Funct. Anal.* **42**, 368–428.
- Kohn, J. J., Nirenberg, L., 1965: On the algebra of pseudo-differential operators, *Comm. Pure Appl. Math.* **18**, 269–305.
- Kunze, R. A., 1958: L^p Fourier transforms on locally compact uni-modular groups. *Trans. Amer. Math. Soc.* **89**, 519–540.
- Lawson, H. B., Michelsohn, M.-L., 1989: *Spin Geometry*, Princeton University Press, Princeton, NJ.

- Leibfried, D., Meekhof, D. M., King, B. E., *et al.*, 1996: Experimental determination of the motional quantum state of a trapped atom, *Phys. Rev. Lett.* **77**, 4281–4285.
- Leray, J., 1978: *Analyse Lagrangienne et Mécanique Quantique: Une Structure Mathématique Apparentée aux Développements Asymptotiques et à l'Indice de Maslov*, Série de Mathématiques Pures et Appliquées, IRMA, Strasbourg.
- Lundberg, L. E., 1976: Quasi-free “second-quantization”, *Comm. Math. Phys.* **50**, 103–112.
- Manuceau, J., 1968: C^* -algèbres de relations de commutation, *Ann. Henri Poincaré Sect. A* **8**, 139–161.
- Maslov, V. P., 1972: *Théorie de Perturbations et Méthodes Asymptotiques*, Dunod, Paris.
- Mattuck, R., 1967: *A Guide to Feynman Diagrams in the Many-Body Problem*, McGraw-Hill, New York.
- Moyal, J. E., 1949: Quantum mechanics as a statistical theory, *Proc. Camb. Phil. Soc.* **45**, 99–124.
- Nelson, E., 1965: A quartic interaction in two dimensions. In *Mathematical Theory of Elementary Particles*, W. T. Martin and I. E. Segal, eds, MIT Press, Cambridge, MA.
- Nelson, E., 1973: The free Markoff field, *J. Funct. Anal.* **12**, 211–227.
- Neretin, Y. A., 1996: *Category of Symmetries and Infinite-Dimensional Groups*, Clarendon Press, Oxford.
- Osterwalder, K., Schrader, R., 1973: Axioms for euclidean Green's functions I, *Comm. Math. Phys.* **31**, 83–112.
- Osterwalder, K., Schrader, R., 1975: Axioms for euclidean Green's functions II, *Comm. Math. Phys.* **42**, 281–305.
- Pauli, W., 1927: Zur Quantenmechanik des magnetischen Elektrons, *Z. Phys.* **43**, 601–623.
- Pauli, W., Weisskopf, V., 1934: Über die Quantisierung der skalaren relativistischen Wellengleichung, *Helv. Phys. Acta* **7**, 709–731.
- Perelomov, A. M., 1972: Coherent states for arbitrary Lie groups, *Comm. Math. Phys.* **26**, 222–236.
- Plymen, R. J., Robinson, P. L., 1994: *Spinors in Hilbert Space*, Cambridge Tracts in Mathematics **114**, Cambridge University Press, Cambridge.
- Powers, R., Stoermer, E., 1970: Free states of the canonical anti-commutation relations, *Comm. Math. Phys.* **16**, 1–33.
- Racah, G., 1927: Symmetry between particles and anti-particles, *Nuovo Cimento* **14**, 322–328.
- Reed, M., Simon, B., 1975: *Methods of Modern Mathematical Physics, II: Fourier Analysis, Self-Adjointness*, Academic Press, London.
- Reed, M., Simon, B., 1978a: *Methods of Modern Mathematical Physics, III: Scattering Theory*, Academic Press, London.
- Reed, M., Simon, B., 1978b: *Methods of Modern Mathematical Physics, IV: Analysis of Operators*, Academic Press, London.
- Reed, M., Simon, B., 1980: *Methods of Modern Mathematical Physics, I: Functional Analysis*, Academic Press, London.
- Rieffel, M. A., van Daele, A., 1977: A bounded operator approach to Tomita–Takesaki theory, *Pacific J. Math.* **69**, 187–221.
- Robert, D., 1987: *Autour de l'Approximation Semiclassique*, Progress in Mathematics **68**, Birkhäuser, Basel.
- Robinson, D., 1965: The ground state of the Bose gas, *Comm. Math. Phys.* **1**, 159–174.
- Roepstorff G., 1970: Coherent photon states and spectral condition, *Comm. Math. Phys.* **19**, 301–314.
- Rosen, L., 1970: A $\lambda\phi^{2n}$ field theory without cutoffs, *Comm. Math. Phys.* **16**, 157–183.
- Rosen, L., 1971: The $(\phi^{2n})_2$ quantum field theory: higher order estimates, *Comm. Pure Appl. Math.* **24**, 417–457.
- Ruijsenaars, S. N. M., 1976: On Bogoliubov transformations for systems of relativistic charged particles, *J. Math. Phys.* **18**, 517–526.
- Ruijsenaars, S. N. M., 1978: On Bogoliubov transformations, II: the general case, *Ann. Phys.* **116**, 105–132.

- Sakai, S., 1971: *C*-Algebras and W*-Algebras*, Ergebnisse der Mathematik und ihrer Grenzgebiete **60**, Springer, Berlin.
- Sakai, T., 1996: *Riemannian Geometry*, Translations of Mathematical Monographs **149**, AMS, Providence, RI.
- Schrödinger, E., 1926: Der stetige Übergang von der Mikro- zur Makromechanik, Naturwissenschaften **14**, 664–666.
- Schwartz, L., 1966: *Théorie des Distributions*, Hermann, Paris.
- Schweber, S. S., 1962: *Introduction to Non-Relativistic Quantum Field Theory*, Harper & Row, New York.
- Segal, I. E., 1953a: A non-commutative extension of abstract integration, Ann. Math. **57**, 401–457.
- Segal, I. E., 1953b: Correction to “A non-commutative extension of abstract integration”, Ann. Math. **58**, 595–596.
- Segal, I. E., 1956: Tensor algebras over Hilbert spaces, II, Ann. Math. **63**, 160–175.
- Segal, I. E., 1959: Foundations of the theory of dynamical systems of infinitely many degrees of freedom (I), Mat. Fys. Medd. Danske Vid. Soc. **31**, 1–39.
- Segal, I. E., 1963: *Mathematical Problems of Relativistic Physics*, Proceedings of summer seminar on applied mathematics, Boulder, CO, 1960, AMS, Providence, RI.
- Segal, I. E., 1964: Quantum fields and analysis in the solution manifolds of differential equations. In *Analysis in Function Space*, Proceedings of a conference on the theory and applications of analysis in function space, Dedham, MA, 1963, M.I.T. Press, Cambridge, MA.
- Segal, I. E., 1970: Construction of non-linear local quantum processes, I, Ann. Math. **92**, 462–481.
- Segal, I. E., 1978: The complex-wave representation of the free boson field, Suppl. Studies, Adv. Math. **3**, 321–344.
- Shale, D., 1962: Linear symmetries of free boson fields, Trans. Amer. Math. Soc. **103**, 149–167.
- Shale, D., Stinespring, W. F., 1964: States on the Clifford algebra, Ann. Math. **80**, 365–381.
- Simon, B., 1974: *The $P(\phi)_2$ Euclidean (Quantum) Field Theory*, Princeton University Press, Princeton, NJ.
- Simon, B., 1979: *Trace Ideals and Their Applications*, London Math. Soc. Lect. Notes Series **35**, Cambridge University Press, Cambridge.
- Simon, B., Høgh-Krohn, R., 1972: Hyper-contractive semi-groups and two dimensional self-coupled Bose fields, J. Funct. Anal. **9**, 121–180.
- Skorokhod, A. V., 1974: *Integration in Hilbert Space*, Springer, Berlin.
- Slawny, J., 1971: On factor representations and the C^* -algebra of canonical commutation relations, Comm. Math. Phys. **24**, 151–170.
- Srednicki, M., 2007: *Quantum Field Theory*, Cambridge University Press, Cambridge.
- Stratila, S., 1981: *Modular Theory in Operator Algebras*, Abacus Press, Tunbridge Wells.
- Streater, R. F., Wightman, A. S., 1964: *PCT, Spin and Statistics and All That*, W. A. Benjamin, New York.
- Symanzik, K., 1965: Application of functional integrals to Euclidean quantum field theory. In *Mathematical Theory of Elementary Particles*, W. T. Martin and I. E. Segal, eds, MIT Press, Cambridge, MA.
- Takesaki, M., 1979: *Theory of Operator Algebras I*, Springer, Berlin.
- Takesaki, M., 2003: *Theory of Operator Algebras II*, Springer, Berlin.
- Tao, T., 2006: *Local and Global Analysis of Non-Linear Dispersive and Wave Equations*, CMBS Reg. Conf. Series in Mathematics **106**, AMS, Providence, RI.
- Tomonaga, S., 1946: On the effect of the field reactions on the interaction of mesotrons and nuclear particles, I, Prog. Theor. Phys. **1**, 83–91.
- Trautman, A., 2006: Clifford algebras and their representations. In *Encyclopedia of Mathematical Physics* **1**, Elsevier, Amsterdam, pp. 518–530.
- van Daele, A., 1971: Quasi-equivalence of quasi-free states on the Weyl algebra, Comm. Math. Phys. **21**, 171–191.

- van Hove, L., 1952: Les difficultés de divergences pour un modèle particulier de champ quantifié, *Physica* **18**, 145–152.
- Varilly, J. C., Gracia-Bondia, J. M., 1992: The metaplectic representation and boson fields, *Mod. Phys. Lett. A* **7**, 659–673.
- Varilly, J. C., Gracia-Bondia, J. M., 1994: QED in external fields from the spin representation, *J. Math. Phys.* **35**, 3340–3367.
- von Neumann, J., 1931: Die Eindeutigkeit der Schrödingerschen Operatoren, *Math. Ann.* **104**, 570–578.
- Wald, R. M., 1994: *Quantum Field Theory in Curved Space-Time and Black Hole Thermodynamics*, University of Chicago Press, Chicago, IL.
- Weil, A., 1964: Sur certains groupes d'opérateurs unitaires, *Acta Math.* **111**, 143–211.
- Weinberg, S., 1995: *The Quantum Theory of Fields, Vol. I: Foundations*, Cambridge University Press, Cambridge.
- Weinless, M., 1969: Existence and uniqueness of the vacuum for linear quantized fields, *J. Funct. Anal.* **4**, 350–379.
- Weyl, H., 1931: *The Theory of Groups and Quantum Mechanics*, Methuen, London.
- Wick, G. C., 1950: The evaluation of the collision matrix, *Phys. Rev.* **80**, 268–272.
- Widder, D., 1934: Necessary and sufficient conditions for the representation of a function by a doubly infinite Laplace integral, *Bull. AMS* **40**, 321–326.
- Wigner, E., 1932a: Über die Operation der Zeitumkehr in der Quantenmechanik, *Gött. Nachr.* **31**, 546–559.
- Wigner, E., 1932b: On the quantum correction for thermodynamic equilibrium, *Phys. Rev.* **40**, 749–759.
- Wilde, I. F., 1974: The free fermion field as a Markov field. *J. Funct. Anal.* **15**, 12–21.
- Williamson J., 1936: On an algebraic problem concerning the normal forms of linear dynamical systems, *Amer. J. Math.* **58**, 141–163.
- Yafaev, D., 1992: *Mathematical Scattering Theory: General Theory*, Translations of Mathematical Monographs **105**, AMS, Providence, RI.