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参考文献

- [1] Alexander, H. G., ed. *The Leibniz-Clarke Correspondence*, Manchester University Press, 1956.
- [2] Arthurs, E. and Kelly, J.L., Jr. *On the simultaneous measurement of a pair of conjugate observables*, Bell System Tech. J. **44**, 725-729 (1965)
- [3] Aspect, A, Dallibard, J. and Roger, G. *Experimental test of Bell inequalities time-varying analysis*, Physical Review Letters 49, 1804–1807 (1982)
- [4] Bell, J.S. *On the Einstein-Podolsky-Rosen Paradox*, Physics 1, 195–200 (1966)
- [5] Bohr, N. *Can quantum-mechanical description of physical reality be considered complete?*, Phys. Rev. (48) 696–702 1935
- [6] Born, M. *Zur Quantenmechanik der Stoßprozesse (Vorläufige Mitteilung)*, Z. Phys. (37) 863–867 1926
- [7] Bohr, N. *Can quantum-mechanical description of physical reality be considered complete?*, Phys. Rev. (48) 696–702 1935 Born
- [8] Busch, P. *Indeterminacy relations and simultaneous measurements in quantum theory*, International J. Theor. Phys. **24**, 63-92 (1985)
- [9] D.J. Chalmers, “The St. Petersburg Two-Envelope Paradox,” Analysis, Vol.62, 155-157, 2002.
- [10] Clauser, J.F., Horne M.A., Shimony, A, Holt, R.A., Proposed experiment to test local hidden variable theories, *Phys, Rev, Lett*, 23(15), 880-884 (1969)
- [11] F. Click, *The Astonishing Hypothesis: The Scientific Search For The Soul*, New York: Charles Scribner’s Sons., 1994.
- [12] Davies, E.B. *Quantum theory of open systems*, Academic Press 1976
- [13] de Broglie, L. *L’interprétation de la mécanique ondulatoire*, Journ. Phys. Rad. 20, 963 (1959)
- [14] Einstein, A., Podolsky, B. and Rosen, N. *Can quantum-mechanical description of reality be considered completely?* Physical Review Ser 2(47) 777–780 (1935)
- [15] R. P. Feynman *The Feynman lectures on Physics; Quantum mechanics* Addison-Wesley Publishing Company, 1965
- [16] L. Hardy, “Quantum mechanics, local realistic theories, and Lorentz-invariant realistic theories, Physical Review Letters 68 (20): 2981-2984 1992
- [17] Heisenberg, W. *Über den anschaulichen Inhalt der quantentheoretischen Kinematik und Mechanik*, Z. Phys. 43, 172–198 (1927)
- [18] Holevo, A.S. *Probabilistic and statistical aspects of quantum theory*, North-Holland publishing company (1982)
- [19] Isaac, R. *The pleasures of probability*, Springer-Verlag (Undergraduate texts in mathematics) 1995
- [20] D.Howard, Who invented the “Copenhagen Interpretation”? A study in mythology, Philosophy of Science, 71 2004, 669-682
- [21] S. Ishikawa, *Fixed points by a new iteration method*, Proceedings of the American Mathematical Society 44(1974) 147?150,1974
- [22] S. Ishikawa, *Uncertainty relation in simultaneous measurements for arbitrary observables*, Rep. Math. Phys., **9**, 257-273, 1991
doi: 10.1016/0034-4877(91)90046-P
- [23] Ishikawa, S. *Uncertainties and an interpretation of nonrelativistic quantum theory*, Internat. J. Theoret. Phys. 30 401–417 (1991) doi: 10.1007/BF00670793

- [24] Ishikawa, S., Arai, T. and Kawai, T. *Numerical Analysis of Trajectories of a Quantum Particle in Two-slit Experiment*, International Journal of Theoretical Physics, Vol. 33, No. 6, 1265-1274, 1994
doi: 10.1007/BF00670793
- [25] Ishikawa, S. *Fuzzy inferences by algebraic method*, Fuzzy Sets and Systems 87, 181–200 (1997)
doi:10.1016/S0165-0114(96)00035-8
- [26] S. Ishikawa, *A Quantum Mechanical Approach to Fuzzy Theory*, Fuzzy Sets and Systems, Vol. 90, No. 3, 277-306, 1997, doi: 10.1016/S0165-0114(96)00114-5
- [27] Ishikawa, S. *Fuzzy logic in measurements*, Fuzzy Sets and Systems 100 291–300 (1998)
- [28] S. Ishikawa, T. Arai, T. Takamura, *A dynamical system theoretical approach to Newtonian mechanics*, Far east journal of dynamical systems 1, 1-34 (1999)
(<http://www.pphmj.com/abstract/191.htm>)
- [29] S. Ishikawa, *Statistics in measurements*, Fuzzy sets and systems, Vol. 116, No. 2, 141-154, 2000
doi:10.1016/S0165-0114(98)00280-2
- [30] S. Ishikawa, *Mathematical Foundations of Measurement Theory*, Keio University Press Inc. 335pages, 2006, (<http://www.keio-up.co.jp/kup/mfont/>)
- [31] S. Ishikawa, *A New Interpretation of Quantum Mechanics*, Journal of quantum information science, Vol. 1, No. 2, 35-42, 2011, doi: 10.4236/jqis.2011.12005
(<http://www.scirp.org/journal/PaperInformation.aspx?paperID=7610>)
- [32] S. Ishikawa, *Quantum Mechanics and the Philosophy of Language: Reconsideration of traditional philosophies*, Journal of quantum information science, Vol. 2, No. 1, 2-9, 2012
doi: 10.4236/jqis.2012.21002
(<http://www.scirp.org/journal/PaperInformation.aspx?paperID=18194>)
- [33] S. Ishikawa, *A Measurement Theoretical Foundation of Statistics*, Applied Mathematics, Vol. 3, No. 3, 283-292, 2012, doi: 10.4236/am.2012.33044
(<http://www.scirp.org/journal/PaperInformation.aspx?paperID=18109&>)
- [34] S. Ishikawa, "Monty Hall Problem and the Principle of Equal Probability in Measurement Theory," *Applied Mathematics*, Vol. 3 No. 7, 2012, pp. 788-794, doi: 10.4236/am.2012.37117.
(<http://www.scirp.org/journal/PaperInformation.aspx?PaperID=19884>)
- [35] S. Ishikawa, "Ergodic Hypothesis and Equilibrium Statistical Mechanics in the Quantum Mechanical World View," *World Journal of Mechanics*, Vol. 2, No. 2, 2012, pp. 125-130. doi: 10.4236/wjm.2012.22014.
(http://www.scirp.org/journal/PaperInformation.aspx?PaperID=18861#.U9-VQP1_vw8)
- [36] S. Ishikawa, *The linguistic interpretation of quantum mechanics*, arXiv:1204.3892v1[physics.hist-ph],(2012) (<http://arxiv.org/abs/1204.3892>)
- [37] S. Ishikawa, "Zeno's paradoxes in the Mechanical World View," arXiv:1205.1290v1 [physics.hist-ph], (2012)
- [38] S. Ishikawa, *What is Statistics?; The Answer by Quantum Language*, arXiv:1207.0407 [physics.data-an] 2012. (<http://arxiv.org/abs/1207.0407>)
- [39] S. Ishikawa, *Measurement Theory in the Philosophy of Science*, arXiv:1209.3483 [physics.hist-ph] 2012. (<http://arxiv.org/abs/1209.3483>)
和訳：科学哲学序説 (紫峰出版：2012)
- [40] S. Ishikawa, "Heisenberg uncertainty principle and quantum Zeno effects in the linguistic interpretation of quantum mechanics," arxiv:1308.5469[quant-ph],(2013)
- [41] S. Ishikawa, "A quantum linguistic characterization of the reverse relation between confidence interval and hypothesis testing," arxiv:1401.2709[math.ST],(2014)
- [42] S. Ishikawa, "ANOVA (analysis of variance) in the quantum linguistic formulation of statistics," arxiv:1402.0606[math.ST],(2014)
- [43] S. Ishikawa, "Regression analysis in quantum language," arxiv:1403.0060[math.ST],(2014)
- [44] S. Ishikawa, K. Kikuchi: *Kalman filter in quantum language*, arXiv:1404.2664 [math.ST] 2014.
(<http://arxiv.org/abs/1404.2664>)

- [45] S. Ishikawa, "The double-slit quantum eraser experiments and Hardy's paradox in the quantum linguistic interpretation," arxiv:1407.5143[quantum-ph],(2014)
- [46] S. Ishikawa, *The Final Solutions of Monty Hall Problem and Three Prisoners Problem*, arXiv:1408.0963 [stat.OT] 2014.
(<http://arxiv.org/abs/1408.0963>)
- [47] S. Ishikawa, *Two envelopes paradox in Bayesian and non-Bayesian statistics* arXiv:1408.4916v4 [stat.OT] 2014.
(<http://arxiv.org/abs/1408.4916>)
- [48]* S. Ishikawa, *Linguistic interpretation of quantum mechanics ; Projection Postulate*, Journal of quantum information science, Vol. 5, No.4 , 150-155, 2015, DOI: 10.4236/jqis.2015.54017
(<http://www.scirp.org/Journal/PaperInformation.aspx?PaperID=62464>)
このプレプリントは
(http://www.math.keio.ac.jp/academic/research_pdf/report/2015/15009.pdf)
- [49]* S. Ishikawa, *Linguistic interpretation of quantum mechanics: Quantum language, Ver.3*. Research Report (Department of mathematics, Keio university), 431 pages
(<http://www.math.keio.ac.jp/en/academic/research.html>)
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この和訳は「量子言語入門；(紫峰出版)」として出版
- [50] S. Ishikawa, *History of Western Philosophy from the quantum theoretical point of view (Ver.2)*, Research Report (Dept. Math. Keio Univ.) KSTS-RR-17/004, 2017, 131 pages
(<http://www.math.keio.ac.jp/en/academic/research.html>)
(http://www.math.keio.ac.jp/academic/research_pdf/report/2017/17004.pdf)
この和訳は「量子論から見た西洋哲学史；(紫峰出版)」として出版
- [51]* S. Ishikawa, *A final solution to the mind-body problem by quantum language* JQIS, Vol. 7, No.2, 48-56, 2017,
(<http://www.scirp.org/Journal/PaperInformation.aspx?PaperID=76391>)
- [52]* S. Ishikawa, Bell's inequality should be reconsidered in quantum language , JQIS, Vol. 7, No.4 , 140-154, 2017, DOI: 10.4236/jqis.2017.74011
(<http://www.scirp.org/Journal/PaperInformation.aspx?PaperID=80813>)
プレプリント (http://www.math.keio.ac.jp/academic/research_pdf/report/2017/17006.pdf)
- [53] K. Kikuchi, S. Ishikawa, "Psychological tests in Measurement Theory," Far east journal of theoretical statistics", 32(1) 81-99, (2010) ISSN: 0972-0863
- [54] K. Kikuchi,, "Axiomatic approach to Fisher's maximum likelihood method," Non-linear studies, 18(2) 255-262, (2011)
- [55] Kalman, R. E. *A new approach to linear filtering and prediction problems*, Trans. ASME, J. Basic Eng. 82, 35 (1960)
- [56] I. Kant, *Critique of Pure Reason* (Edited by P. Guyer, A. W. Wood), Cambridge University Press, 1999
- [57] A. Kolmogorov, "Foundations of the Theory of Probability (Translation)," Chelsea Pub Co. Second Edition, New York, 1960,
- [58] Krengel. U. *Ergodic Theorems*, Walter de Gruyter. Berlin, New York 1985
- [59] Lee, R. C. K. *Optimal Estimation, Identification, and Control*, M.I.T. Press 1964
- [60] G. Lüders, Über die Zustandsänderung durch den Messprozess, Ann. Phys. (Leipzig) (6)8,322-328, 1951
- [61] J. M. E. McTaggart, *The Unreality of Time*, Mind (A Quarterly Review of Psychology and Philosophy), Vol. 17, 457-474, 1908
- [62] G. Martin, "Aha! Gotcha: Paradoxes to Puzzle and Delight" Freeman and Company, 1982
- [63] B. Misra and E. C. G. Sudarshan, "The Zeno's paradox in quantum theory", Journal of Mathematical

Physics 18 (4): 756-763 (1977)

- [64] N.D. Mermin, “Boojums all the way through, Communicating Science in a Prosaic Age” Cambridge university press, 1994.
- [65] Ozawa, M. *Quantum limits of measurements and uncertainty principle*, in Quantum Aspects of Operational Communication edited by Bendjaballah et al. Springer, Berlin, 3–17, (1991)
- [66] M. Ozawa, “Universally valid reformation of the Heisenberg uncertainty principle on noise and disturbance in measurement,” *Physical Review A*, Vol. 67, pp. 042105-1–042105-6, 2003,
- [67] Prugovečki, E. *Quantum mechanics in Hilbert space*, Academic Press, New York. (1981).
- [68] Redhead, M. Incompleteness, nonlocality, and realism, Oxford University Press, Oxford (1987)
- [69] Robertson, H.P. *The uncertainty principle*, Phys. Rev. 34, 163 (1929)
- [70] Sakai, S. *C*-algebras and W*-algebras*, Ergebnisse der Mathematik und ihrer Grenzgebiete (Band 60), Springer-Verlag, Berlin, Heidelberg, New York 1971
- [71] Selleri, F. *Die Debatte um die Quantentheorie*, Friedr. Vieweg&Sohn Verlagsgesellschaft MBH, Braunschweig (1983) 量子力学論争 櫻山義夫 (訳) 共立出版
- [72] Shannon, C.E., Weaver. W *A mathematical theory of communication*, Bell Syst. Tech.J. 27 379–423, 623–656, (1948)
- [73] von Neumann, J. *Mathematical foundations of quantum mechanics* Springer Verlag, Berlin (1932) 量子力学の数学的基礎 : 井上健 (訳) みすず書房 (1957)
- [74] S. P.Walborn, et al. “*Double-Slit Quantum Eraser*,” Phys.Rev.A 65, (3), 2002
- [75] J. A. Wheeler, “*The 'Past' and the 'Delayed-Choice Double-Slit Experiment'*,” pp 9-48, in A.R. Marlow, editor, *Mathematical Foundations of Quantum Theory*, Academic Press (1978)
- [76] Wittgenstein, L *Tractatus Logico-philosophicus*, Oxford: Routledge and Kegan Paul, (1922) 『論理哲学論考』 野矢茂樹訳, 岩波書店 2003
- [77] Yosida, K. *Functional analysis*, Springer-Verlag (Sixth Edition) 1980

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