BIBLIOGRAPHY ON QUANTUM LOGICS AND RELATED STRUCTURES

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Summary. The bibliography contains 1851 references on axiomatic structures underlying quantum mechanics with a stress on varietes of algebraico–logical, probabilistic, and operational structures for which the term *quantum logics* is adopted. An index of about 250 keywords picked out from the titles is included and statistics about papers, journals, and authors are presented. Monographs and proceedings on the subject are singled out.

PACS numbers: 01.30.Tt, 03.65.–**w** — *Bibliography on quantum logic, quantum logic, logico–algebraical structures of quantum mechanics, probabilistico–operational structures of quantum mechanics, quantum formalism.*

This is an interdisciplinary bibliography on axiomatic structures underlying quantum mechanics with a stress on a number of structures which the International Quantum Structures Association recognizes as aspects of and includes in quantum logics. (The Association was founded on 15th September 1990 in Gdańsk during the Quantum Logics meeting.)

In the literature quantum logic is given many different meanings. It is considered to be an orthomodular partially ordered set with the set of states defined on it [712], simply an orthomodular lattice [1349], a row of algebraico–logical structures recently named quantum propositional logic [1135], and finally manuals and semi–Boolean algebras named quantum events logics [1136]. Such a variety of definitions reflects different approaches taken by physicists, mathematicians, logicians, and philosophers of physics who have all jointly contributed to the field. For the purpose of compiling this bibliography I consider quantum logic to mean all the above mentioned structures and under 'related structures' I mean the most relevant references to the other axiomatic approaches, notably, Segal algebras, C^*–algebras, von Neumann algebras, and state–observable probability approaches, as well as some more 'exotic' axiomatics provided they are technically well elaborated. In addition, a certain number of mathematical elaborations which have turned out to be of particular importance and of direct influence are included. For surveys and comparisons of the approaches we refer to Gudder (1979) and Holdsworth & Hooker (1983).

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The main aim of the present bibliography is twofold: first to draw the attention of researchers of different profiles to each other and second, to fill the gap in the bibliographical material available on the field.

The only proper bibliography on quantum logic was Beehner's (1980). It is compiled mostly from a physicist's and philosopher of physics' point of view. Holdsworth & Hooker (1983) contains an extensive bibliography compiled so as to stress the logical and philosophy of physics approach. Finally, Kalmbach (1983a) and Kalmbach (1986) contain a huge number of references as covered by a matematician. Ω–bibliography87 should also be mentioned here, as well as the following sections of *Math. Revs.*: 03G12 – Quantum logic, 81B10 – Logical foundations of quantum mechanics, and 06C15 – Complemented lattices, orthocomplemented lattices.

The present bibliography brings together the approaches of the quoted bibliographies and finds a suitable overlap between the references the author himself has come across over the years and those from the afore–mentioned sources.

No divisions have been made because the considerable overlapping of the algebraical, logical, and probabilistic aspects of the considered structures makes any grouping more appropriate for a subsequent resource letter. Here, rather informative titles served a TEX programme to make an index which is given at the end of the bibliography. The keywords for the index were picked out from the reference titles by Dr. J. Pykacz.

An attempt has been made to make the bibliography second, third,... authors friendly by listing them *all* in the alphabetical order.

The bibliography contains 1851 references and is backed up by a data bank.

The data bank makes it possible to obtain statistics about papers, journals, and authors. Here, I would only like to stress some figures which might be relevant and important for the researchers in the field.

The number of papers appearing annually in journals (i.e. excluding proceedings) stabilized in the early seventies at about 50. The figures are as follows. In the period 1961-65 the average number of papers published annually in journals was 10.8 in 1966–70: 30.2, 1971–75: 47.0, 1976–1980: 54.2, 1981–1985: 60.6, and in 1986–90: 55.0.

The average number of all references appearing annually is: 1961–70: 26.4, 1971–80: 88.5, and 1981–90: 100.7.

The five most important journals for the authors included in this bibliography are: *Int. J. Theor. Phys.* in which 127 papers appeared, *Found. Phys.* (110), *J. Math. Phys.* (81), *Rep. Math. Phys.* (54), and *Commun. Math. Phys.* (50). Of these *Int. J. Theor. Phys., J. Math. Phys.* and *Rep. Math. Phys.* have published papers regularly over the last 25 years. *Commun. Math. Phys.* published 44 papers between 1967 and 1982 and only 7 between 1983 and 1990. Papers which appeared in *Found. Phys.* till 1988 are much more 'related' than belonging to quantum logics "proper." However, two most recent volumes contain a considerable number of "proper quantum logics papers."

Other significant journals are: *Notices, Proc. & Trans. Am. Math. Soc.* (56), *Math. Slovaca* (33), *J. Phil. Logic* (32), *Algebra Universalis* (29), *Bull. Acad. Polon. Sci. (Math., Phys. & Logic)* (27), *Ann. Inst. Henri Poincaré* (26), *Synthese* (26), *Pacif. J. Math.* (26), *Helv. Phys. Acta* (25), *Nuovo Cim. (+ Lett.)* (22), *Studia Logica* (22), *Demonstratio Math.* (21), *Phil. Sci.* (19), *Canad. J. Math.* (17), and *Brit. J. Phil. Sci.* (15).

Of these *Ann. Inst. Henri Poincaré (Phys.)* and *Proc. Am. Math. Soc.* published papers in the field regularly. Others are mostly unequally distributed over years. In particular *Helv. Phys. Acta* published 90% of the papers between 1959–79 and only 10% between 1980–90, while in the other physical journal *Nuovo Cim.* conversely 90% of papers appeared between 1978–1990, as opposed to 10% between 1960–1977. Of mathematical journals *Algebra Universalis, Demonstratio Math.* and *Math. Slovaca* published the majority of papers in the eighties, the others in the seventies.

As for the "philosophical" journals figures for *J. Phil. Logic, Synthese,* and *Phil. Sci.* tempt us to conclude that philosophy of physics is loosing its interest in the subject. (About 80% of the papers appeared in the seventies.)

In this bibliography 575 scientists appear as authors and we estimate that roughly between 400 and 450 of them have been "properly" engaged in the field for some time. Since, on the other hand, only 112 authors took part in writing 5 or more references it turns out that the fluctuation of the researchers in the field is rather high. Yet another aspect of this is that on average 1.3 authors write a paper.

Finally we would like to list the monographs and proceedings at least partially dedicated to the field. (According to Library of Congress Cataloguing the proceedings are mostly referred to the place where a symposium was held. In editors' entries such a reference name is indicated by boldface.)

The monographs are: Beltrametti, E. G. and G. Cassinelli (1981a), Beran, L. (1985), Birkhoff, G. (1948), Bub, J. (1974), Cohen, D. W. (1989), Destouches–Février, P. (1951), Fáy, Gy. and R. Tőrös (1970), Gibbins, P. F. (1987), Giuntini, R. (1990), Grätzer, G. (1978), Gross, H. (1979), Gudder, S. P. (1979b), Gudder, S. P. (1988d), Haack, S. (1974), Jajte, R. (1985), Jammer, M. (1974), Jauch, J. M. (1968), Kalmbach, G. (1983a), Kalmbach, G. (1986), Kläy, M. P. (1985), Ludwig, G. (1954), Ludwig, G. (1971), Ludwig, G. (1978), Ludwig, G. (1983), Ludwig, G. (1985), Ludwig, G. (1985a), Ludwig, G. (1987), Mackey, G. W. (1963), Maeda, F. and S. Maeda (1970), Maeda, S. (1980), Meskov, V. S. (1986), Mittelstaedt, P. (1972a), Mittelstaedt, P. (1972b), Mittelstaedt, P. (1976b), Mittelstaedt, P. (1978a), Piron, C. (1976a), Pitowsky, I. (1989), Pták, P. and S. Pulmannová (1989), Pták, P. and S. Pulmannová (1991), Reichenbach, H. (1944), Rüttimann, G.T.(1977b), Scheibe, E. (1973), and Varadarajan, V. S. (1968/70).

The proceedings are: Butts & Hintikka (1977), Cohen & Wartofsky (1969,74), Cologne78,84, Feldafing74, Erice79, Fermi70,77, Fort, M. (1982/85), Hooker75I,79,79II, Ján88,90, Klagenfurt82, Loyola77,79, Marburg73,79, Nitsch et al. (1981), Ontario71,-73I,73II,73III,75, PSA74,76,78,80, Suppes76,80, Tokyo83, Trieste72, Tutzing78,80,82, Vienna84, and Warsaw74.

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