

Preface

This issue constitutes Part I of the Proceedings of the International Meeting on Quantum Logics held in Gdańsk, Poland, September 14–18, 1990.

The aim of the meeting was to commemorate the work of the late Wawrzyniec Guz, who devoted most of his scientific activity to quantum logics, and to review the developments in this area since the Cologne 1984 Conference.

Following a proposal of Prof. David Finkelstein, the participants in the meeting at Gdańsk took the first steps toward establishing an association for the advancement and dissemination of quantum logics in all their mathematical, philosophical, and physical aspects. The cornerstone for such a society, tentatively named the International Quantum Logics Association, was laid down on September 15, 1990. The name of the society was later broadened and, in the course of discussions which lasted long after the meeting, became the International Quantum Structures Association, with Enrico G. Beltrametti, University of Genoa, Italy, accepting the chair and David Finkelstein, Georgia Institute of Technology, Atlanta, Georgia, as the secretary.

The *Proceedings* consists of three parts. Part I contains texts, in some cases substantially enlarged, of most of the lectures delivered in Gdańsk. (Participants who did not submit a paper are Vittorio Cantoni, Thurlow A. Cook, Karl-Eberhard Hellwig, Gudrun Kalmbach, Frederico Laudisa, and Andrzej Posiewnik.) Part II contains papers contributed to the *Proceedings* by several quantum logicians who were not able to attend the meeting. Part III is a bibliography on quantum logic and other algebraic structures underlying quantum theory, which appeared in the *International Journal of Theoretical Physics*, 31, 373–461 (1992). We hope that this extensive bibliography (with 1851 references and an index) will prove helpful to anyone working in the field of quantum logics and other quantum structures.

The meeting was sponsored by the University of Gdańsk and by the Polish Ministry of Higher Education through the Research Program R.P. I 10.

In spring 1990, one of us (M.P.) passed information about the meeting to a great number of quantum logicians throughout the world, using the facilities of the Institute for Theoretical Physics, Cologne, Germany. Thanks go to Prof. P. Mittelstaedt, who was his host there, and to the Alexander von Humboldt Foundation, which supported him at the time.

Last but not least, many thanks are due to Ludwik Targoński, whose assistance helped the meeting run smoothly.

Jarosław Pykacz

Mladen Pavičić

Gdańsk, January 1991

Zagreb, January 1992