

## **QUANTUM LOGICS; GDAŃSK '90**

### **Proceedings of the International Meeting held in Gdańsk, Poland, September 14–18, 1990**

**Edited by**

**Jarosław Pykacz and Mladen Pavičić**

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### **Part I LECTURES**

After the meeting organized by David Pethickstein, the participants in the meeting decided to form a society and establishing an association for the promotion and development of quantum logics in all their mathematical, physical and philosophical aspects. The suggestions for such a society were accepted at the International Quantum Logics Association, which was founded in September 1990. The name of the society was later changed into the International Quantum Logics Association, which lasted long after the meeting, because the International Quantum Structures Association, with its president, Renato隐岐, was formed in October 1990, accepting the chair and the professorship of the International Quantum Logics Association. After the meeting, the International Quantum Logics Association was dissolved.

The present volume consists of three parts. Part I contains texts, in some cases extended versions, of invited lectures and short notes delivered in Gdańsk. The invited speakers were: Ryszard Wójcik, Werner Brügel, Thayne A. Hildebrand, J. K. Jasiński, J. K. Jasińska, Claude Piron, Ferencz Szalay, and Mladen Pavičić. In addition, there are two contributions to the Proceedings from the participants who were not able to attend the meeting. These contributions concern quantum logics and other algebraic structures and their applications. Since the meeting was an International Journal, the contributions are in English. At the moment we hope that this extensive collection of papers will be useful to the scientific community and will prove helpful to the work on the foundations of quantum logics and other quantum structures.

The meeting was organized by the University of Gdańsk and by the Institute of Mathematics and Cryptology through the Research Program

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### **Part II CONTRIBUTED PAPERS**

The meeting was organized by the Institute of Mathematics and Cryptology of the Polish Academy of Sciences and the Faculty of Mathematics and Cryptology of Gdańsk University. The participants in the meeting were invited to submit papers on topics related to quantum logics and quantum mechanics. The meeting was organized by the International Quantum Logic Association, which was founded in 1984. The name of the society has been changed to International Society for the Foundations of Quantum Mechanics and Quantum Logics. The meeting was also supported by the International Association of Cryptologic Research, with whom the International Quantum Logic Association will cooperate in organizing future meetings. The meeting was organized by the Institute of Mathematics and Cryptology of the Polish Academy of Sciences and the Faculty of Mathematics and Cryptology of Gdańsk University. The meeting was organized by the International Quantum Logic Association, which was founded in 1984. The name of the society has been changed to International Society for the Foundations of Quantum Mechanics and Quantum Logics. The meeting was also supported by the International Association of Cryptologic Research, with whom the International Quantum Logic Association will cooperate in organizing future meetings.