



Local Quantum Physics: Fields, Particles, Algebras (Theoretical and Mathematical Physics)

Rudolf Haag

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The new edition provided the opportunity of adding a new chapter entitled "Principles and Lessons of Quantum Physics". It was a tempting challenge to try to sharpen the points at issue in the long lasting debate on the Copenhagen Spirit, to assess the significance of various arguments from our present vantage point, seventy years after the advent of quantum theory, where, after all, some problems appear in a different light. It includes a section on the assumptions leading to the specific mathematical formalism of quantum theory and a section entitled "The evolutionary picture" describing my personal conclusions. Altogether the discussion suggests that the conventional language is too narrow and that neither the mathematical nor the conceptual structure are built for eternity. Future theories will demand radical changes though not in the direction of a return to determinism. Essential lessons taught by Bohr will persist. This chapter is essentially self-contained. Some new material has been added in the last chapter. It concerns the characterization of specific theories within the general frame and recent progress in quantum field theory on curved space-time manifolds. A few pages on renormalization have been added in Chapter II and some effort has been invested in the search for mistakes and unclear passages in the first edition. The central objective of the book, expressed in the title "Local Quantum Physics", is the synthesis between special relativity and quantum theory together with a few other principles of general nature.

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