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Foundations and Interpretation of Quantum Mechanics: In the Light of a Critical-Historical Analysis of the Problems and of a Synthesis of the Results by Gennaro Auletta (2000-06-04) Mass Market Paperback – January 1, 1814

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Quantum foundations is a discipline of science that seeks to understand the most counter-intuitive aspects of quantum theory, reformulate it and even propose new generalizations thereof. Conrary to other physical theories, such as general relativity, the defining axioms of quantum theory are quite ad hoc, with no obvious physical intuition.

Quantum foundations - Wikipedia

Foundations and Interpretation of Quantum Theory After a review of the axiomatic formulation of quantum theory, the generalized operational structure of the theory will be introduced (including POVM measurements, sequential measurements, and CP maps).

Foundations and Interpretation of Quantum Theory ...

Mathematical Foundations of Quantum Theory is a collection of papers presented at the 1977 conference on the Mathematical Foundations of Quantum Theory, held in New Orleans. The contributors present their topics from a wide variety of backgrounds and specialization, but all shared a common interest in answering quantum issues.

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Groenewold H.J. (1970) Foundations of Quantum Theory Statistical Interpretation. In: Weingartner P., Zecha G. (eds) Induction, Physics and Ethics. Synthese Library (Monographs on Epistemology, Logic, Methodology, Philosophy of Science, Sociology of Science and of Knowledge, and on the Mathematical Methods of Social and Behavioral Sciences), vol 31.

Foundations of Quantum Theory Statistical Interpretation ...

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For example, there is an International Journal of Quantum Foundations on the web, with a constantly updated page listing the latest papers on quantum foundations. Now there is a trend denying the interest of that area of research, this is true. See for example Quantum Theory Needs No 'Interpretation' (Fuchs & Peres). Note that this paper ...

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Foundations and Interpretation of Quantum Mechanics [] - Gennaro Auletta []: World Scientific Publishing Company []: In the Light of a Critical-Historical Analysis of the Problems and of a Synthesis of the Results []: 2000-06 []: 981 []: USD 168.00 []: Hardcover ISBN: 9789810240394

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Gennaro Auletta is an Italian philosopher of science actively involved in scientific research. He is an internationally acknowledged expert in quantum mechanics and in the foundation and interpretation of this discipline. His main interests in quantum information led him to focus his further research on the way in which biological and cognitive systems deal with information. He is also active in the field of the dialogue between science, philosophy and theology, and has been the Vice-Director of