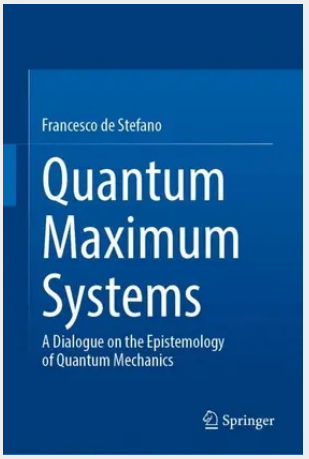
de Stefano

Quantum Maximum Systems

A Dialogue on the Epistemology of Quantum Mechanics



Written in the style of a Galilean dialogue, this book offers a compelling exploration of the physical and epistemological foundations of quantum mechanics. Through a lively and accessible exchange, it delves into the major interpretations of quantum theory, from the historic debate between Einstein and Bohr to the paradoxes of Schrödinger's cat and Wigner's friend, and from the many-worlds interpretation to the theory of decoherence.

The dialogue also examines alternative approaches to the orthodox view, with particular attention to the Ghirardi–Rimini–Weber theory, developed at the University of Trieste, and Bohmian mechanics. Key topics such as quantum entanglement and non-locality are thoroughly discussed, making this book a comprehensive guide to the central issues in the ongoing debate.

For readers seeking a deeper understanding, eleven mathematical appendices provide rigorous insights into the concepts introduced in the main text, without requiring advanced technical background.

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