

J. S. BELL

Speakable and Unspeakable in Quantum Mechanics

SECOND EDITION

With a new Introduction by Alain Aspect

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Speakable And Unspeakable In Quantum Mechanics

Collected Papers In Quantum Mechanics

J. S. Bell



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from a diverse set of researchers ranging from senior scholars to junior academics working in varied fields from physics to philosophy of physics and metaphysics The contributors reflect on issues about fundamentality is quantum theory fundamental If so what is its fundamental ontology ontological dependence how do ordinary objects exist even if they are not fundamental realism what kind of realism is compatible with quantum theory indeterminacy can the world itself exhibit ontological indeterminacy The book contains contributions from both physicists including Nobel Prize winner Gerard t Hooft science communicators and philosophers

Emergent Quantum Mechanics Jan Walleczek, Gerhard Grössing, Paavo Pylkkänen, Basil Hiley, 2019-04-02 Emergent quantum mechanics explores the possibility of an ontology for quantum mechanics The resurgence of interest in deeper level theories for quantum phenomena challenges the standard textbook interpretation The book presents expert views that critically evaluate the significance for 21st century physics of ontological quantum mechanics an approach that David Bohm helped pioneer The possibility of a deterministic quantum theory was first introduced with the original de Broglie Bohm theory which has also been developed as Bohmian mechanics The wide range of perspectives that were contributed to this book on the occasion of David Bohm s centennial celebration provide ample evidence for the physical consistency of ontological quantum mechanics The book addresses deeper level questions such as the following Is reality intrinsically random or fundamentally interconnected Is the universe local or nonlocal Might a radically new conception of reality include a form of quantum causality or quantum ontology What is the role of the experimenter agent As the book demonstrates the advancement of quantum ontology as a scientific concept marks a clear break with classical reality The search for quantum reality entails unconventional causal structures and non classical ontology which can be fully consistent with the known record of quantum observations in the laboratory

Non-Relativistic Quantum Mechanics Ravinder R. Puri, 2017-07-04 Introduces readers to non relativistic quantum mechanics and its mathematical methods

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