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-- Part VI: Calls to Reconceptualize QM. Chapter 15: A Reconstruction of Quantum Mechanics -- Chapter 16: What is orthodox quantum mechanics?.

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Sommario/riassunto

This edited volume explores the philosophical implications of quantum mechanics. It features papers from venues of the International Ontology Congress (IOC) up to 2016. IOC is a worldwide platform for dialogue and reflection on the interactions between science and philosophy. The collection features philosophers as well as physicists, including David Albert, Harvey Brown, Jeffrey Bub, Otávio Bueno, James Cushing, Steven French, Victor Gomez-Pin, Carl Hoefer, Simon Kochen, Peter Lewis, Tim Maudlin, Peter Mittelstaedt, Roland Omnès, Juha Saatsi, Albert Solé, David Wallace, and Anton Zeilinger. Since the early days of quantum mechanics, philosophers have studied the subject with growing technical skill and fruitfulness. Their efforts have unveiled intellectual bridges between physics and philosophy. These connections have helped fuel the contemporary debate about the scope and limits of realism and understanding in the interpretation of physical theories and scientific theories in general. The philosophical analysis of quantum mechanics is now one of the most sophisticated and productive areas in contemporary philosophy, as the papers in this collection illustrate.

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