

Special Issue

Philosophy and Quantum Mechanics

Message from the Guest Editor

The philosophical problems raised by quantum physics are many and varied: What are the trends in competing philosophies for the interpretation of the quantum world? Is an objective formalization of the theory possible, or will we be always compelled to appeal to the intervention of an external observer? What does Schrödinger's cat tell us about the problem of measurement and the demarcation between the quantum and the classical realms? Is the wave function a mere calculation tool or does it represent some physically real entity? Does quantum entanglement prevent a causal description of reality? Are Heisenberg's inequalities a statement about our experimental limitations or do they point to something deeper? Is the probabilistic aspect of quantum theory genuinely compatible with the spatiotemporal view of relativity? Does it make sense to apply quantum considerations to the universe as a whole, or should we wait until we discover a theory that unifies all the fundamental forces of nature?

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Philosophies searches for the syntheses of philosophical and scientific inquiries. It promotes philosophical work that is derived from the experience of diverse scientific disciplines and cultures. Multiple philosophies already exist—those of logic, information, computation, natural and artificial life, natural or artificial intelligence, complexity, technology, etc. Our mission is not to abandon philosophical roots and traditions of inquiry, but to promote the development of philosophical foundations and effective methodologies derived from diverse scientific explorations, and intended to enhance these explorations as to generate deeper and more holistic knowledge. Innovation may also be achieved through the cultural dimension. Other cultures can offer from their heritage a diversity of resources for exploration; these resources can also contribute to the emergent synthesis of philosophical inquiry.

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