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# **Emergent Quantum Mechanics – David Bohm Centennial Perspectives**

Guest Editors:

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Deadline for manuscript submissions:

closed (30 April 2018)

## **Message from the Guest Editors**

Dear Colleagues,

This Special Issue explores the possibility of an ontology for quantum mechanics. The focus is the search for a "deeperlevel" theory for quantum mechanics that interconnects three fields of knowledge: emergence, the quantum, and information. Contributions will be featured that present current advances in realist approaches to quantum mechanics, including new experiments, work in quantum foundations, and the physics of the quantum observer and the conscious experimenter agent.

Topics of the Special Issue:

- Interpretations of Quantum Mechanics
- Nonlocality and Violation of Bell Inequalities
- Quantum Probabilities and Contextuality
- Quantum Causality and Ontology
- Information Measures in Quantum Theory
- Quantum Observation and the Physics of the Experimenter Agent
- Nonlinear Methods applied to Quantum Theory
- Self-organization and Quantum Emergence
- Hidden Variable Theories and Relativity
- Emergent Space-time

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### **Editor-in-Chief**

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## **Message from the Editor-in-Chief**

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