

## Bohmian Mechanics The Physics And Mathematics Of Quantum Theory

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Bohmian Mechanics: The Physics and Mathematics of Quantum Theory (Fundamental Theories of Physics): Amazon.co.uk: Dürr, Detlef, Teufel, Stefan: 9783540893431: Books. £89.99.

### Bohmian Mechanics: The Physics and Mathematics of Quantum ...

Bohmian Mechanics was formulated in 1952 by David Bohm as a complete theory of quantum phenomena based on a particle picture. It was promoted some decades later by John S. Bell, who, intrigued by the manifestly nonlocal structure of the theory, was led to his famous Bell's inequalities.

### Bohmian Mechanics - The Physics and Mathematics of Quantum ...

Bohmian mechanics, which is also called the de Broglie-Bohm theory, the pilot-wave model, and the causal interpretation of quantum mechanics, is a version of quantum theory discovered by Louis de Broglie in 1927 and rediscovered by David Bohm in 1952. It is the simplest example of what is often called a hidden variables interpretation of quantum mechanics.

### Bohmian Mechanics (Stanford Encyclopedia of Philosophy)

The main idea of Bohmian mechanics is that all strange effects of quantum mechanics that we observe in experiments are simply the result of a new force. This force arises from a new potential, called "quantum potential". The reason that quantum effect often seem so strange is explained in the Bohmian framework by the observation that the quantum potential is extremely sensitive to tiny changes.

### Bohmian Mechanics [The Physics Travel Guide]

Bohmian mechanics is the infamous theory of quantum theory that is readily understood, easy to analyze, and in complete agreement with the predictions of quantum mechanics. At this site, we will explore what this theory is, how it solves many problems, the challenges yet to be overcome, and why it is rejected by the mainstream physics community when, in fact, it solves the most bedeviling problems in the most obvious and ordinary of ways.

### Bohmian Mechanics

"Bohmian Mechanics" Part of the "Compendium of Quantum Physics", Springer-Verlag (2009), 10 pages. A very good general introduction to Bohmian Mechanics. D. Dürr, S. Goldstein and N. Zanghi: "Bohmian Mechanics as the Foundation of Quantum Mechanics" Part of "Bohmian Mechanics and Quantum Theory: An Appraisal", edited by J.T. Cushing, A. Fine ...

### What is Bohmian Mechanics? - Bohmian-Mechanics.net

The de Broglie-Bohm theory, also known as the pilot wave theory, Bohmian mechanics, Bohm's interpretation, and the causal interpretation, is an interpretation of quantum mechanics. In addition to a wavefunction on the space of all possible configurations, it also postulates an actual configuration that exists even when unobserved.

### De Broglie-Bohm theory - Wikipedia

Bohmian Mechanics (also called de Broglie-Bohm theory or pilot-wave theory) is the natural theory of the motion of particles in quantum mechanics. It yields in measurement situations the same probabilistic results as predicted by the statistical formalism of quantum mechanics.

### Home - Bohmian-Mechanics.net

"Bohmian Mechanics - The Physics and Mathematics of Quantum Theory" Springer (2009) This monograph provides an introduction to Bohmian Mechanics that is useful for students as well as for researchers (see description by the publisher). It thoroughly explains Bohmian Mechanics, the quantum mechanical formalism and the role of chance in physics.

### Readings - Bohmian-Mechanics.net

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Bohmian Mechanics was formulated in 1952 by David Bohm as a complete theory of quantum phenomena based on a particle picture. It was promoted some decades later by John S. Bell, who, intrigued by the manifestly nonlocal structure of the theory, was led to his famous Bell's inequalities. Experimental tests of the inequalities verified that nature is indeed nonlocal.

### Bohmian Mechanics: The Physics and Mathematics of Quantum ...

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### Bohmian Mechanics: The Physics and Mathematics of Quantum ...

Bohmian mechanics, also known as pilot-wave theory or de Broglie-Bohm theory, is a formulation of quantum mechanics whose fundamental axioms are not about what observers will see if they perform an experiment but about what happens in reality.

### [1704.08017] Bohmian Mechanics - arXiv.org

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### Bohmian Mechanics | Springer for Research & Development

David Bohm first published his interpretation of quantum mechanics in 1951. The Bohmian interpretation is similar to the guiding wave interpretation developed in the 1920's by one of the founders of quantum physics, Louis de Broglie. De Broglie abandoned the theory until Bohm breathed new life into it.