

## Bohmian Mechanics The Physics And Mathematics Of Quantum Theory

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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)**

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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.

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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**

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**

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point particle theory that explains Quantum Mechanics. What is Bohmian Mechanics?

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In theoretical physics, the pilot wave theory, also known as Bohmian mechanics, was the first known example of a hidden-variable theory, presented by Louis de Broglie in 1927.

## **Pilot wave theory - Wikipedia**

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".

## **Bohmian Mechanics [The Physics Travel Guide]**

Unfortunately, Bohmian mechanics is a nonrelativistic theory, and so it is of value primarily for the lessons it conveys about finding a sensible interpretation of quantum mechanics that is relativistic, rather than for the specific details of the theory itself. Now the question you raised about pair creation is, of course, very important.

## **On Bohmian Mechanics | Articles | Inference: International ...**

Bohm rejected the claim of physicists such as Hawking and Weinberg that physics can achieve a final "theory of everything" that explains the world. Science is an infinite, "inexhaustible process,"...

## **David Bohm, Quantum Mechanics and Enlightenment ...**

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