

Coexistence of several interpretations of quantum mechanics and the fruitfulness of scientific works

Boyer, Thomas (2009) Coexistence of several interpretations of quantum mechanics and the fruitfulness of scientific works. In *[2009] SPSP 2009: Society for Philosophy of Science in Practice (Minnesota, June 18-20, 2009)*.

Full text available as:

[PDF](#) - Requires a viewer, such as [Adobe Acrobat Reader](#) or other PDF viewer.

Abstract

The coexistence of several interpretations of one theory is considered through the example of non-relativistic quantum mechanics. The problem considered is whether physicists manage to work properly in spite of the several interpretations. The criterion adopted is the possibility of re-using others' works for another research: this is called "fruitfulness of works". It is argued that such a fruitfulness is possible between works made in different quantum interpretations.

Keywords: Fruitfulness of works, re-using works, quantum mechanics, coexistence of interpretations

Subjects: [General Issues: Structure of Theories](#)
[Specific Sciences: Physics: Quantum Mechanics](#)

Conferences and Volumes: [\[2009\] SPSP 2009: Society for Philosophy of Science in Practice \(Minnesota, June 18-20, 2009\)](#)

ID Code: 4723

Deposited By: [Boyer, Thomas](#)

Deposited On: 22 June 2009