

What Branching Spacetime Might Do for Physics

Sharlow, Mark (2007) What Branching Spacetime Might Do for Physics.

Full text available as:

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

Abstract

In recent years, the branching spacetime (BST) interpretation of quantum mechanics has come under study by a number of philosophers, physicists and mathematicians. This paper points out some implications of the BST interpretation for two areas of quantum physics: (1) quantum gravity, and (2) stochastic interpretations of quantum mechanics.

Keywords: branching spacetime, non-Hausdorff, quantum gravity, stochastic interpretation, many worlds interpretation

Subjects: [Specific Sciences: Physics: Relativity Theory](#)
[Specific Sciences: Physics: Quantum Mechanics](#)

ID Code: 3781

Deposited By: [Sharlow, Mark](#)

Deposited On: 21 January 2008

Additional Information: This is an updated version of a paper that appeared previously on the author's website.