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The Wave-Function as a Field in Three-Dimensional Space

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It is generally argued that if the wave-function in the de Broglie–Bohm theory is a physical field, it needs to be a field in configuration space. I show, however, that it can be regarded as a physical field in three-dimensional space. Indeed, I propose a novel interpretation of the wave-function as a new type of physical field: a multi-field. The multi-field interpretation leads to a realistic understanding of the wave-function, while retaining the entire ontology in three dimensions.

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