Bohmian Mechanics: Vague and Absurd*

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Abstract

This work attempts to show that Bohmian mechanics is vague and absurd on two basic grounds. Bohmian mechanics essentially postulates the existence of a subtle force called "the quantum potential" which pervades all space and provides direct connections between quantum systems. It suggests that a total order in the whole universe is contained, in some implicit sense, in each region of space and time. And the quantum potential corresponds to such "implicate order". The first of the two grounds states that no idea of (spatial) force, e.g. gravitational or magnetic force or the quantum potential, can be a substitute for any simple or, moreover, complex intelligent (spatial) structure, e.g. a neural structure found in human brain, as the concept of force is a mere abstraction, a vague idea, which does not provide (spatial) mechanistic explanations. (For example, Newton's idea of gravitational force fails to explain "action at a distance".) Therefore, a region of space and time, though containing quantum and possibly infinite number of super...quantum potentials, simply cannot contain a neural order, for example, unless containing an appropriate (spatial) "structure" representing the order. The second ground considers the Bohmian mechanistic idea/remark that "the (spatial) implicate domain", corresponding to the (spatial) quantum potentials, could equally be called Idealism, Spirit, Consciousness. This idea/remark means that Bohmian mechanics considers consciousness to be spatial which, however, contradicts the NSTP (Non – Spatial Thinking Process) theoretical axiom/"self-evident truth" that 'consciousness is non-spatial'. In short, Bohmian mechanics is vague and absurd.

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