



TOWARD A SCIENCE OF THE HEART: DAVID BOHM'S PHYSICS AND BEYOND

by

**Will Keepin
Director
Positive Futures Project
Santa Fe, New Mexico USA**

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William N. Keepin, PhD

ABSTRACT

*If you are in love,
That love is all the proof you need.*

*If you are not in love,
What good are all your proofs?*

--Jelaluddin Rumi

The bulk of this paper explores the work of the late physicist David Bohm, focusing on his theoretical and philosophical contributions to modern physics. The implications of Bohm's ideas are then considered in a broader context, and the author concludes that Bohm's work reflects the need to develop a new "science of the heart" that explores the intangible aspects of existence.

David Bohm developed a profound theory of the nature of reality, called the *holomovement*, which he describes as a single unbroken wholeness in flowing movement, in which each part of the flow contains the entire flow. The holomovement has two fundamental aspects that Bohm calls the *explicate* and *implicate orders*. The explicate order refers to the usual matter/energy/space/time universe as recognized by today's science. The implicate order postulates the existence of a subtle realm of meaning that ultimately lies beyond space and time altogether, but is no less real and is fundamental to the understanding of manifest phenomena.

If this "implicate order" does exist, then it seems incumbent on science to initiate a genuine inquiry into this realm. Such an inquiry will require the development of altogether new epistemologies appropriate to the unique character of this realm. Because this entails an inquiry into the ontology of meaning, new "epistemologies of the heart" are needed, which will ultimately move science toward the integration of intellect and spirit.