

POSTS

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220420

LR is seemingly contrary to Occam's razor! The probabilistic interpretation PI (Copenhagen Interpretation) of quantum mechanics is certainly simpler than the locally real LR representation of quantum mechanics. Theories should be simple but not too simple (ae). In the case of PI developed in the late 1920's, simplicity has consequences that are far from simple: An absolute universe back to the problem that troubled Newton, conflict with relativity, suspension of reality, non-locality and perhaps proliferation of multiple universes. The premature declaration that quantum physics is complete has led to these conflicts with classical physics (inclusive of relativity). Because of these conflicts the universe is far less simple for want of maintaining the simplicity of PI. There is a path forward for local realism that is consistent with the underlying mathematical formalism of quantum mechanics and performed experiments. The path is subtle but fully achievable without resort to miracles (wave function collapse)

The premature declaration that atoms do not exist presented fundamental discrepancies with respect to known physical phenomena. Accepting a less simple reality that atoms exist enabled kinetic theory to provide a rational basis for a wide range of thermodynamic phenomena that dramatically simplified the disparate bases of those phenomena.

Copernicus's solar-centric solar system representation is probably the most touted example of the benefit of applying Occam's razor to achieve a more

logical alternative to the earth-centric representation of the solar system. However, in all fairness to the solar-centric representation and despite the greater simplicity of the solar-centric representation, the compelling superiority of that representation was not fully appreciated until Kepler deduced that planetary orbits were non-circular ellipses and Newton demonstrated an underlying physical basis for those orbits.

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Regarding the widely held notion that all hidden variable theories HVT's have been disproven: The purported demonstrations of the non-local phenomenon of entanglement are demonstrations of correlation under Bell's Theorem. However, LR is not subject to Bell's Theorem because LR is an HVT that inherently is inclusive of the property of "enhancement".
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