

Specific Models for Fast Hidden Variables, FreeWill, and all that

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The machinery of quantum mechanics is fully capable of describing a single real world. Here we discuss the converse: in spite of appearances, and indeed numerous claims to the contrary, any quantum mechanical model can be mimicked, up to any required accuracy, by a completely classical system of equations. An implication of this observation is that Bell's theorem cannot hold in many cases. This is explained by scrutinising Bell's assumptions concerning causality, retrocausality, free will, statistical (in-)dependence, and his fear of 'conspiracy' (there is no conspiracy in our constructions, as soon as one uses the language of the deterministic models). The most crucial mechanism for the counter-intuitive Bell/CHSH violation is the fact that after every change in the settings chosen by Alice and Bob, the ontological status of the particles in the initial state must be adjusted. The potential importance of our construction in model building is discussed.