

# Review of: "On the Bell Experiment and Quantum Foundation"

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This paper provides an interesting interpretation of the Bell inequalities. I wonder if the author is aware of the writings of Khrennikov and Dzhafarov, among many others, on the Bell inequalities and their origin in the probabilistic structure of quantum measurements involving non-commuting observables. As a mathematician, physicist, and psychiatrist, I am always a little uncomfortable with models that attempt to explain problems by appeal to mental states - since we have no understanding of mental states formally, apart from philosophical arguments which tend to be biased by traditions and schools of philosophy. We have no formal understanding which is rigorously grounded in empirical observations and so making mathematical arguments in the absence of such a formal understanding seems brave to my mind. I have yet to find a convincing explanation as to why two observers of a quantum mechanical situation should have the same distribution function of beliefs - the same issue troubles me regarding quantum Bayesianism.

The ideas presented here are certainly interesting but greater links to real observers, not mathematically ideal observers, seems needed.