Quantum Bayesian Statistics: Q-Bism JEFFREY BOYD, retired —
Bohr said: "In our description of nature the purpose is not to disclose the real essence
of the phenomena, but only to track down, so far as possible, relations between
the manifold aspects of our experience." Q-Bism has built a solid mathematical
foundation under Bohr's idea. Christopher Fuchs is the leading proponent of Q-
Bism, which is the application of this approach to quantum math. David Mermin
is a recent convert [1] and has a paper [2] saying that non-locality does not exist
in the "real" world. It is all in your mind [3]. The real physical world is treated
as if it were a black box, the inner workings of which we know nothing about. We
should say, "My math predicts that if we put X into the black box then we will get
Y out the other side, but we have no idea how nature happens to accomplish that."
Knowledge of Schroedinger's cat is in a superposition of states, but not the real cat.

[1] Mermin, N. D., Physics Today, (July 2012). doi:10.1063/PT.3.1618.
[2] Fuchs, C. A., N. D. Mermin and R. Schack, arXiv:1311.5253v1 [quant-ph] (Nov
20, 2013).
[3] von Baeyer, H. C., Scientific American, 308 (2013), 47.

Jeffrey Boyd
retired