

<p>Opener: Calls in NYT for non-publication. Hofstadter: If any of his claims were true, then all of the bases underlying contemporary science would be toppled.</p>		
<p>In truth, only a very limited modification of orthodox quantum mechanics is needed, and this kind of modification is reasonable on Independent rational grounds alone!</p>		
Physical Theories	Features of Orthodox QM	Random versus Reason
<p>Classical Mechanics (CM) Physically described dynamics Our knowledge left out of dynamic</p>	<p>Observer's choices are "free": Not determined by known laws!</p> <p>Nature's choices of outcomes are purely RANDOM!</p>	<p>Violations of Random=>Violations of Normal Forward-in-Time Causality!</p> <p>Well Known: Argument for Random</p>
<p>Copenhagen QM Pragmatic About connections between Increments in our knowledge gained by making "observations".</p>	<p>Increment in knowledge is associated with "collapse" of quantum state of universe to the part of its former self compatible with the new knowledge.</p> <p>Keeps the state in line with our knowledge!</p>	<p>I have long believed "The principle of sufficient reason" "No definite thing happens without a <i>cause</i> for it to be what it is!" No definite thing can just pop out of the blue!" (Prejudice?) "God does not play dice with the universe!"</p>
<p>Von Neumann (Orthodox) QM Three related processes.</p> <p>Nature's choice of answer/outcome</p> <p>Observer's choice of probing question.</p> <p>Physical evolution of quantum state Of Universe via Schr. Eqn.</p> <p>Schroedinger Equation alone generates smear of observed states</p>	<p>Dynamical explanation of how conscious Intentional effort produces the intended bodily action. (Quantum Zeno Effect)</p> <p>Entails strictly normal (forward in time) Causation.</p> <p>Incompatible with Bem's data!</p>	<p>Bem data compatible with Orthodox QM only if Quantum law of Randomness is violated!</p> <p>Turn usual argument around: Instead of "Need randomness to ensure normal causation!" rather "Need violation of randomness to allow for empirical violations of normal causality!"</p> <p>What general kind of violation would entail the Bem data violations of causality, but ensure the validity of the usual quantum randomness under the conditions where they work so well?</p> <p>Nature's choices biased in favor of "positive feelings" of observers!</p>
<p>Outro: This suggestion violates the notion that it is the social duty of scientists to denounce to any suggestion that nature could be biased in this way that depends on the character of our thoughts. But science ought not prejudge this question!</p>		
<p>Close: If nature's choices depend upon the character of our thoughts then it could be of supreme importance to examine empirically the nature of this dependence, in order to put it to good use!</p>		

