

Three Questions About Wave Functions

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YouTube: <https://www.youtube.com/watch?v=LJzKLTavk-w&lc=UgwybgtznzOZht9ANFJJ4AaABAq>

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Comment on Sabine Hossenfelder post:

Chaos: The real problem with quantum mechanics

<https://youtu.be/LJzKLTavk-w>

Three questions on the theory side of your presentation:

>> "Hyperion ... interacts with dust and ... photons. [These] interactions ... slightly shift the crest and troughs of parts of the [moon's] wave-function. This is called 'decoherence' and it's just what the Schrödinger equation predicts. [This] equation is still linear."

Q1 — All finite-energy waves have finite-information carrying capacities. Why do the infinitely-expanding Schrödinger waves in the above definition get a free pass?

Q2 — Schrödinger wave thought experiments begin with particles in classical states. If chaos makes this impossible at the end of the experiment, why is it possible at the start?

>> "[If] measurement collapse [is not] a physical process ... quantum mechanics [fails to] describe ... observations. But ... what is this process? No one knows."

Q3 — Do solar sails work as Maxwell predicted? If so, how is the coherent reflection of a photon from the sun to the sail not an enormous collapse of that photon's original solar solid angle wave function, and how can this collapse not be associated with imparting linear momentum to the sail?

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