

Time to Stop Believing in Fairytales: A Possible Solution to Quantum Mechanics Most Daring Problem, the Double-slit Experiment

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Letter to the Editor

Dear Editor,

I come from a medical background. I haven't seriously studied physics since high school but I like to observe things and I like the mysteries of quantum mechanics. Solving mysteries is one of the most important approaches to the development of humanity.

With that said I would like to propose here where to look for solutions for one of the most important mysteries of quantum mechanics. The double-slit experiment.

The mystery of the double-slit experiment lies in the following question. Why does a particle behave like a particle when there is one slit and why does it behave like a wave when there are two slits. This is something we come to call particle-wave duality. And why does a wave behave again like a particle when we start measuring it.

My proposed solution lies in the foundation that the macro world behaves in the same way then the micro world, meaning we don't need two types of physics for different phenomena.

Now because I don't know all the formulas and where scientists are currently and because I want to stimulate or enter the conversation I propose here the following solution that is more similar to a nice fairytale with which we would teach our kids in school.

How do we explain the particle-wave duality? When does particle behave like a particle and when does particle become a wave?

It is similar to watching the behavior of a lake. Drops in the water are particles and waves are waves. And particles become waves when a third party enters the game which in this case is wind or small changes in air pressure.

Wind in micro phenomena probably represents micro magnetic fields that constitute macro magnetic fields.

So the solution with which I will stop here is the following:

When another slit is present it changes the behavior of the third party (micro-magnetic fields change), this causes particles to start behaving like waves.

When a measuring device is present, it changes the behavior of the third party; this causes particles to start behaving like particles again.

If someone could prove this I would be most grateful. I would also like to learn much more in this area as I truly believe we are entering a new scientific era where understanding magnetism will cause massive changes in science and industry.

It's time to stop believing in fairytales and start doing science again.

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