

Part II.

No Evidence for Particles.

In this part, we will consider the evidence for particles and show that it can all be explained by the properties of the wave function. Thus, since all the particle-*like* properties of matter can be explained by the wave function alone, there is no evidence for particles. Wave-particle duality is therefore only a duality in the properties of the wave function, and not a duality in the basic structure of matter.

Along the way, we will show that, in spite of the fact that many versions of reality exist in the wave function, the observer will never *perceive* more than one.

The probabilistic nature of quantum mechanics, along with collapse and hidden variable interpretations, will be taken up in Part III.