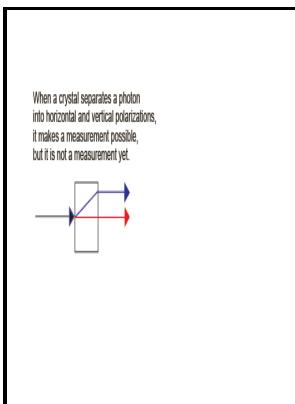
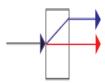


Definite quantum measurements

World Scientific - Six Things Everyone Should Know About Quantum Physics



When a crystal separates a photon into horizontal and vertical polarizations, it makes a measurement possible, but it is not a measurement yet.



Description: -

- Definite quantum measurements
- Definite quantum measurements

Notes: 1

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Tags: #This #Twist #on #Schrödinger's #Cat #Paradox #Has #Major #Implications #for #Quantum #Theory

Sabine Hossenfelder: Backreaction: What is the quantum measurement problem?

But in practice, as the pictures above begin to suggest, after a while the foliations we have to construct can get increasingly complicated. This circuit presents two possible states, forming what is called a qubit, and it interacts with a radiation field.

On the Quantum Measurement Problem

The observation destroys the superposition of the cat's state, or in other words, collapses the wave function that describes the probabilities of the cat being in each of the two states. At the same time their positions along x are also strictly correlated so that determining the position of one system on the x-axis allows us to infer the position of the other system along x.

Quanta Magazine

I am also pretty sure entanglement will be much less mysterious when the nature of the underlying physical process - and there certainly is one - is determined. Intrinsic Spin Angular Momentum Is Quantized in Magnitude and Direction There are two more quantum numbers of immediate concern.

Objective Reality Doesn't Exist, Quantum Experiment Shows

We take the debates over the ontological significance of quantum mechanics to draw attention to the role of subjective interpretation and conceptual framing in scientific experimentation.

EPR Paradox in Physics

Thus, in the argument, the description given by the state function of a system is judged incomplete when it fails to attribute a position to the system in circumstances where the system indeed has a position. Discussion The angles are consistent with the figure. The choice of measurement in one location appears to be affecting the state of the system in the other location.

Six Things Everyone Should Know About Quantum Physics

These include that the measurement outcomes are not influenced by signals traveling above light speed and that observers are free to choose what measurements to make.

Quantum Entanglement in Physics

Do we, during our measurement today, determine what scattering happened 14 By ago? In classical physics measurement is not a part of territory as it does not change reality.

Quantum Measurement: Wolfram Physics Project Technical Background

The full theory of quantum electro-dynamics QED involves contributions from every possible process, even the ridiculously unlikely ones. I am not saying this has to be the case only that it is a possibility which has to be kept in mind.

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