

Are you curious about how and why the universe of the big and small behave the way they do? Have you even wondered why common sense does not apply to the quantum mechanical world of subatomic particles or how three-dimensional space can be undergoing a spatial expansion in universe consisting of only four dimensional space-time? For example because quantum mechanics predicts that there is a non-zero probability one can observe a particle anywhere in the universe before an observation or measurement is made, many seemingly rational scientists assume that a particle simultaneously exists in at every point in space only to materialize when it is observed. This prompted Einstein one of the greatest thinkers of modern times to say Do you really believe that the moon isn't there when nobody looks? In other words saying that nothing exists before one looks at it does not define the reality most of us believe in. Most if not all scientific advancements humankind has made have been based on concepts derived through qualitative observations of the environment. However, modern physicists seem to have taken a different road to understanding the laws that govern our world. They spend most if not all of their time analyzing only its quantitative or mathematical properties. For example Einsteins theories define the universe in terms of only four dimensional space-time. However observations tell us that three-dimensional space is undergoing an expansion towards a higher spatial dimension. This presents a problem for the proponents of his theories because they do not include one. However by defining the relationship between energy/mass in terms of the constant velocity of light he provided a qualitative and quantitative means of redefining the geometry of four dimensional space-time terms of higher fourth *spatial* dimension thereby allowing us to understand the reality of how three-dimensional space can be undergoing a spatial expansion. As mentioned earlier quantum mechanics predicts that there is a non zero probability one can observe a particle anywhere in the universe before an observation or measurement is made and because of this many seemingly rational scientists assume that a particle simultaneously exists in at every point in space and only materializes when it is observed. However one of the many articles in this series shows that if we shift the probabilistic interpretations of a quantum environment to the causality of an event instead of its outcome it would explain why particles only appear to materialize at a specific point when observed in terms of the single evolutionary path it took to get there. For example if someone strikes a pool ball on a pool table in a dark room and cannot measure or determine the initial conditions there is an extremely high probability that he will find it on the table when he turns on the light. However, he or she does not assume that the balls simultaneously exist at every point on its surface until the light is turned on. Additionally one could apply Newton's laws and the probability of the different initial conditions associated with the event to determine the most probable resting place of the pool balls after the light is turned on. In other words the reason why we only know where a particle is after we observe it is because we are unable to determine the initial condition and not because it existed everywhere before being observed. In other words it may be because we are not sure how and where it started and not because it existed everywhere before we looked for it. We believe our universe should be understandable to those who have a need to so each article presents the concepts in jargon free language with enough background information so that the reader will not have to do further research to understand its content. *** The universes most powerful enabling tool is not knowledge or understanding but imagination because it extends the reality of ones environment. ***

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