INBETWEENNESS: THE CONDITION FOR THE POSSIBILITY OF THE COSMOS

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We will begin with the assumption that wave function[1] describes all possible states of a particle. Now if we consider that wave function could also assume an infinite set of parallel universes this amplifies quantum theory in a different way. This would be as Stephen Hawking calls it wave function of the universe.

What I understand is that *Inbetweenness* is the wholistic ground for a reductionistic quantum theory. Henrik Casimir showed us that quantum theory could create negative energy with this example: Two large uncharged parallel metal plates when separated have a force between them. There are particles and antiparticles constantly appearing and disappearing. These are called virtual particles that create a net attractive force between the two plates. This is called the Casimir effect. These virtual particles are so fleeting and moving so fast that they are basically unobservable.

What makes things even more complicated is that an infinite number of all possible universes coexist with one another. Look again at the virtual particles between the two plates. They are gone again!

Let us consider Erwin Schrodinger's cat.[2] To decide whether or not the cat is dead or alive we have to open the box. If we open the box we do not know if the cat was alive or dead before we opened the box. All we really can say is that wave function describes both a live and dead cat.

Before the observation is made the cat can be either dead or alive. This involves someone making an observation that is a consciousness. We could amplify the thought from a wholistic view and say that *Inbetweenness* explains the existence of any object. All is within the cosmic whole of *Inbetweenness*.

If we consider again particles, from the framework of an S-matrix, we could be looking at a scattering as an inseparable whole. This would be *Inbetweenness* too!

Whether we take something apart and look into the meaning from there or leave it intact and ask how things move and interact with one another each gives us information. The one view is reductionism and the other is wholistic. They are not separate they are integral. They are variations within the ground of *Inbetweenness*.

If we make the move to say that the properties that we ascribe to objects is found in the interaction with the object this means that the object does not exist independently. There is no independent existence. Nothing exists in isolation not even the Cosmos.[3]

There are an infinite number of universes coexisting with ours. All are connected within the Cosmic whole of *Inbetweenness* and this means that interdimensional movement is possible. I will see you here and there.

Notes

1) Wave function represents call possibilities that can happen when it interacts with an observing.

2) Schrodinger's wave theory is non-relativistic. It describes a temporal development of possibilities one of which actualizes. S- matrix provides probabilities. It gives direct probabilities without indication of development. One views probabilities rather than individual actualization.

3) For anything to be isolated would mean that it would have to be isolated from something. *Inbetweenness* is the cosmic whole.