

REFLECTION ON SYMMETRY AND SPONTANEITY

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Symmetry and symmetry breaking is currently viewed in physics as a way to talk about the movement from an undifferentiated to a complex structure. In physics transformations of symmetry can occur without changing any observable properties. With symmetry certain physical operations are, as yet, undetectable. Symmetric transformation occurs when different configurations related to symmetry move into each other. Symmetry is sacred in physics. It is also sacred in religion.

In religion the symmetric symbol is static and in physics symmetry is on going in time and viewed as symmetry transformations. Symmetry is a property of a static system but not necessarily so in physics. In physics one prefers to make predictions on how distinct quantities relate to one another. This is very helpful to make predictions based on observable events by relating distinct quantities to one another. It gives a standard in experimentation that can be view as observable, measurable and repeatable.

Measurement is problematic when considering internal symmetries that relate different types of particles. This then is called a flavor symmetry that is not exact. These differences are deemed insignificant for some predictions. This means that the mass difference between particles does not really fit within the parameters.

An example of symmetry can be seen in theater lights one red one green one blue shining separately each is its own yet together it is white. Each is interchangeable in that different configurations act in the same way. But the cosmos itself does not exist in perfect symmetry. If symmetry were perfect it would be boring. There would be no character. The problematic that exists is what is the connection between symmetry and asymmetry.

If we consider spontaneous symmetry breaking that occurs in physics we can also see that it exists in everyday life. With a sphere every point is the center and one can see symmetry. With a circle on a different dimension one can also see symmetry. An example of a circle would be a pizza. One can still see symmetry even when it is put in a square box that changes again. But before this enter the person who cuts the pizza in slices. Anyone who has ordered a pizza already knows that all the slices are different. This breaks the symmetry of the circle.

Symmetry can be viewed on one dimension and yet broken on another. In physics each dimensional field can give rise to particles anywhere in space. These particles can be also unique to that particular field. Each field carries its own charge with or without particles within it.

The cosmos includes all of the different dimensions that carry a charge. Each dimension within disperses a charge everywhere within that dimension depending upon its current energy. When symmetry is broken spontaneously a variation occurs with that within the field. The field itself does not vanish yet the transformations change that which is within.

This action transforms that which is related by symmetry into each other. But that which is related is not always symmetrical. It can be reciprocal but not necessarily symmetrical. This is a reciprocal interaction that is related but not necessarily symmetrical. It is the ongoingness of incessant change. What all this means is that in the colliding interaction there are variations that depend upon the energy involved. It is within *Inbetweenness* that all of this occurs. Even with symmetry and asymmetry one is seen in relation to the other. Each is seen as a variation in relation to the other.

Inbetweenness is absolute. It is beyond time and space. In time and space there is a *field of Inbetweenness*. It permeates time and space. There are different effects in the field. There are five themes of *Inbetweenness*:

Cosmic Connection of it All
Movement and Vibration
Spontaneity
Constant Change
Participatory

Inbetweenness is a simple, elegant, unifying theory that is basic to the cosmos. *Inbetweenness* includes variations of incessant change. Variation is the ongoing creativity. Some dimensions are even invisible and intangible. *Inbetweenness* is basic to the cosmos it is not smashing existing physics but disclosing the connection of it all.