

Non-Locality and Simultaneity as intangible properties

The article concerning the C-zones in fact is an addition to the model of origin that can be found in the article: 'The Origin of Matter' here on RG. Because that Model is very abstract, several Modules will be added to make its contents more understandable for both physicists and non-physicists. The Model shows how all possible constitutional parts of the Universe such as dimensions, energy, forces, ... may have originated. In this Model two properties are key: Non-Locality and Simultaneity.

The first property, Non-Locality, is in itself not easy to understand. This property implies the transcendence of space. This is something difficult to understand because it is unusual to our common Newtonian approach to the world. We always calculate with a certain speed to bridge distances, but with the property of Non-Locality that suddenly is no longer necessary. Things get even stranger when we talk about the second property: Simultaneity. When we look at the term Simultaneity analytically, then we quickly assume that it means that all kinds of things can happen at the same time. Simultaneity as a quantum property however turns out to mean much more than that. This property means that there is a possibility to transcend the course of time. For our analytical mind such a thing is even stranger than transcending space. Simultaneity after all means that you can stand above the course of time; it means that when this phenomenon occurs, the usual causality no longer holds.

The existence of the properties Non-Locality and Simultaneity is demonstrated in the underlying article about the C-zones on the basis of the combination of a number of theoretical grounds:

- Starting from the entanglement in quantum physics, we demonstrate the existence of Non-Locality. Then we use the twofold form of the uncertainty relations to show that besides Non-Locality also Simultaneity exists. Simultaneity stands for a kind of 'being' through the occurrence of a condition that has no time course.
- Starting from the general theory of relativity, we show that the properties of Non-Locality and Simultaneity in certain circumstances can be emulated by matter.

Non-Locality and Simultaneity thus unmistakably are a part of matter. These two properties seem strange to our analytical mind because they can only come from a source that has no spatial dimensions and no course of time. That only possible source is an infinite acausal Potency. In other words, it is a Potency that, because it is acausal, has no beginning and no end. As mentioned earlier, the Model describes how the constitutional parts of the Universe emerged out of that Potency. From that description it appears that the intangible properties of Non-Locality and Simultaneity are 'invisible' or transcendent parts of matter. As a result, they emerge, as it were, almost unnoticed from the two most important theories of the twentieth century.

Because of our analytical education, we can no longer grasp the intangible or transcendental character of these properties. The situation reminds us of a philosopher at the University of Ghent (Belgium) who no longer knows 'being' as a trait or even as a concept and who turns it into 'the existent'. It also shows that in some academic environments a fierce battle was fought to expel anything transcendent from our world of knowledge.

The article on the C-Zones reveals that the properties of Non-locality and Simultaneity are at the foundation of the existence of coherence, of life and of consciousness. They form the basis of the holistic¹ capacities of our consciousness. Holism is based on the possibility of

transcendence. The current scientific concept of the construction of our world does not allow for intangible things because they are analytically difficult or incomprehensible. When the quantum world now nevertheless forces us to accept its existence, then we should also reintegrate the holistic aspect of our consciousness in our world of knowledge. Moreover, we must be able to admit that holism is at the basis of everything we know and feel: they are properties with an existential character.

These findings have all kinds of consequences for how we should approach the world. When Non-locality and Simultaneity are the cause of the emergence of consciousness and life, we must give them the most important place there is in our world of knowledge. Doing so requires a completely different approach to our mental development. It requires a revolution in our vision of education, science, industry, medicine, ... on the entirety of our future.

Footnote 1: Holism comes from the Greek word holon, which means the whole. Holism is the belief that everything is connected. A holist sees himself as part of this whole and assumes that the separation between people, animals, nature and things in the world is caused by 'either-or' reasoning and thinking in opposites.