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Can a complementary interpretation of quantum physics contribute to new insights in biophysics?

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The surmise of a complementary basis in the structure of life popped up in many ways by all cultures through the ages, but it stayed difficult to catch its characteristics in general. In the beginning of quantum mechanics, Heisenberg supposed that this was the entrance of complementarity in physics, although it was not yet possible to describe it in that way. More than 40 years later, thanks to a mathematical definition given by Max Jammer, it became possible to create a mathematical language suited to describe physical phenomena in a complementary way. Involving ideas of Einstein, this was elaborated to a theory called twin physics. The most important characteristics are the consideration of space as a finite physical item, the use of an elementary unit of potential energy and the use of geometry to make the results more accessible. After having made an inventory of all basic possibilities, the resulting descriptions could be identified with elementary particles, the four forces of nature and more phenomena at an atomic as well as an astronomic scale. In this lecture the principles and some possible applications of twin theory will be presented. Although this seems to be only the beginning of a new region of research, there are indications that the basics of it may be applied on human life by introducing one definition more, which will be explained.

Biography

Anna Catharina Maria Backerra has graduated in Theoretical Physics at the Eindhoven University of Technology in The Netherlands and worked for three years at Philips Research Laboratories. She continued independently, making a search for complementary physics. To develop a way of complementary thinking she studied composition at the Conservatory in Enschede and in Saint Petersburg. After that she constructed a complementary mathematical language and applied this on Physics, obtaining Twin Physics. The results are published in Physical Essays (three papers), Applied Physics Research (three papers) and combined in a book ("*Twin Physics, the Complementary Model Of Phenomena*"- Lambert Academic Publishing, www.morebooks.shop.

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