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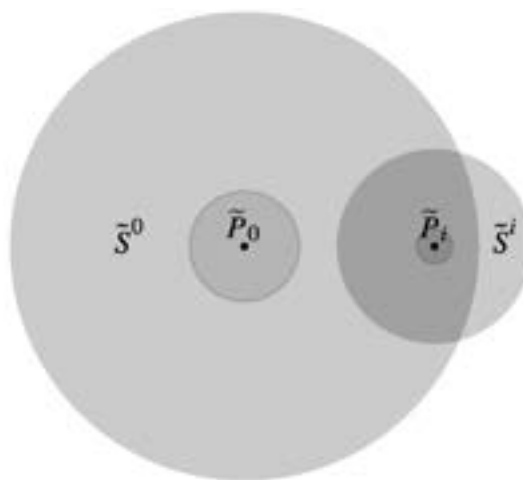
Electrons without effective mass as described by twin physics

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A formalism is developed, based on the concept that indeterminate and indeterminate aspects of phenomena are mutually independent, and that they occur joined in nature in such a manner that one of both dominates an observation. This so-called complementary language represents a dualistic way of considering the universe. The quantization of Planck and the uncertainty relations of Heisenberg are incorporated from scratch. The basic item in the theory is the Heisenberg-unit, defined as a constant amount of potential energy. This mathematical item is the key to a better understanding of the universe, because it allows a fundamental division between potential and actual energy. Only by interaction with another Heisenberg unit, the potential energy can be transformed into physical items. Using this item, a series of elementary particles as well as neutron decay, the difference between gravity and electricity, and gravitational waves can be described. In this lecture we concentrate on the description of electrons, divided in four types depending on rest mass and spin.

The electron of type 4 has only charge, without mass and spin and this seems to be compatible with the features of graphene.



Biography

Backerra has graduated in theoretical physics at the Eindhoven University of Technology in The Netherlands at the age of 23 years 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 (Russia). After that she constructed a complementary mathematical language and applied this on physics, obtaining twin physics. The results of the last eight years are published in Physical Essays (3 papers) and in Applied Physics Research (3 papers).

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