

Comment: Dr. Gustav Hans Weber, Physicist, December 2010

Since the discovery of the electron and the completion of Maxwell's equation's into the today accepted form, physicists agree, that the electron is a stable particle with negative charge and spin $\frac{1}{2}$, corresponding magneton (Bohr) and a mass of about half a per mill of the proton mass. It interacts with the electric and magnetic field in a way, that was proposed by Maxwell and Lorentz. Also Dirac did not change anything substantially about this electron model. He basically added the relativistic increase in mass. Therefore the electron remains a passive particle, that can never generate more work, then was invested by the field.

The film „Symmetric Electric Systems and the Energetic Exchange with the Quantum-Vacuum“ made by Marcus Reid shows a very different picture. The interaction of the electron with the quantum vacuum by a broken symmetry does not appear in the classic model, but was proposed by Carlo Rubia since his discovery of the w- and z- particle 1982, that shows how the electron interacts with the electroweak force via the quantum vacuum. If the quantum vacuum is symmetric nothing new happens, everything stays as we know it. But as soon as it get's asymmetric due to an electric dipole, then the electron receives a force coming from the quantum vacuum. Reid shows this in an impressive way by presenting the electrons as sail boats and the virtual photons as a wind (I prefer to call it „space-wind“). He has made clear how the electron receives electric energy from the quantum vacuum.

Reid's recipe how to gain energy from the quantum vacuum.

One creates a dipole, thereby generates a space-wind, which is also called vector potential or space-quanta-current, that will push the electrons like sail boats through the circuit and enables them to create work in a light bulb. Central part is, that the dipole has to remain intact, it may not be destroyed. In electrochemistry this dipole get's destroyed and that is the reason why it must be recreated by redox reaction, whereby the energy gained from the quantum vacuum is given back to that domain.

Marcus Reid has not only shown this in the film, he has also realized a method for the permanent extraction of energy from the quantum vacuum with the Crystal Cell. This development deserves general recognition and advancement.

Kudos to you Marcus!

Freienstein, 14. December 2010, Dr. Gustav Hans Weber, ARCMIRA Group