



The Positron: " The Anti-particle of The Electron

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Edited by Paul F. Kisak

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The positron or antielectron is the antiparticle or the antimatter counterpart of the electron. The positron has an electric charge of $+1 e$, a spin of $\frac{1}{2}$, and has the same mass as an electron. When a low-energy positron collides with a low-energy electron, annihilation occurs, resulting in the production of two or more gamma ray photons. Positrons may be generated by positron emission radioactive decay (through weak interactions), or by pair production from a sufficiently energetic photon which is interacting with an atom in a material. In 1928, Paul Dirac published a paper[2] proposing that electrons can have both a positive charge and negative energy. This paper introduced the Dirac equation, a unification of quantum mechanics, special relativity, and the then-new concept of electron spin to explain the Zeeman effect. This book discusses the positron and it's latest uses in technology.

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