Relativistic Equation of Motion for Spin 0 Particle

Relativistic energy-momentum relationship

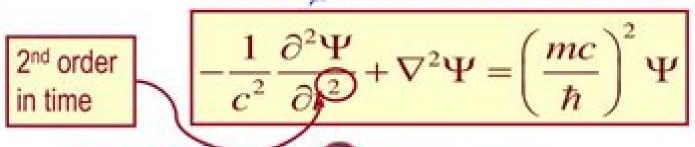
$$E^{2} - \mathbf{p}^{2}c^{2} = m^{2}c^{4} \Rightarrow p^{\mu}p_{\mu} - m^{2}c^{2} = 0$$

With four vector notation of quantum prescriptions;

$$p_{\mu} \rightarrow \frac{\hbar}{i} \partial_{\mu} \quad \text{where} \ \, \partial_{\mu} \equiv \frac{\partial}{\partial x^{\mu}}; \quad \left(\partial_{0} = \frac{1}{c} \frac{\partial}{\partial t}, \quad \partial_{1} = \frac{\partial}{\partial x}, \quad \partial_{2} = \frac{\partial}{\partial y}, \quad \partial_{3} = \frac{\partial}{\partial z} \, \right)$$

Relativistic equation of motion for field, ψ, the Klein-Gordon Equation

$$-\hbar^2 \partial_\mu \partial^\mu \Psi - m^2 c^2 \Psi = 0$$



Wednesday, Feb. 28, 2007

Relativistic Particle Physics

Michael Brown

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