

Abstract Submitted
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On the Origin of the Klein-Gordon-Dirac expression, and its implication in Particle Mass Ratios D.T. FROEDGE, Formerly Auburn University
— This paper puts fourth the proposition that Klein-Gordon-Dirac wave equation is descended from a more general expression, and the solutions of the more general expression illustrate known particle properties including potentials and mass ratios. The particle solutions of the general expression encompass the particles general properties as well as the electromagnetic interaction. A plausible derivation of the mass ratios for particles is shown to imply certain allowed internal modes, and allows separation of the general equation into periodic and non-periodic equations. The modes and mass ratios are shown for the leptons, the proton, the neutron and the W boson, to a reasonable degree of accuracy.

D.T. Froedge
Formerly Auburn University

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