

Abstract Submitted
for the APR13 Meeting of
The American Physical Society

An Alternative Approach to the Klein-Gordon-Dirac Equations for Classical and Quantum Mechanics D.T. FROEDGE, Formerly Auburn University — This is an ongoing development to propose an encompassing solution to Klein-Gordon-Dirac equation which is treated as a factorable quadratic differential equation. The proposed solutions consist of both real and periodic components, defining a collection of particles, and their electromagnetic interactions. The real constituents generally define the classical particle interactions, and the periodic constituents define the quantum aspects. This should not be taken as a re-formulation of quantum mechanics, but as an alternate view and solution to the complex differential equation. The solutions are consistent with both classical, and quantum mechanics. The underlying mechanism defining the equation and the particle properties is presumed to be QFT, but physical interpretations are not the standard probability interpretation of QM. Located at <http://www.arxdtf.org/css/system.pdf>

D.T. Froedge
Formerly Auburn University

Date submitted: 14 Jan 2013

Electronic form version 1.4