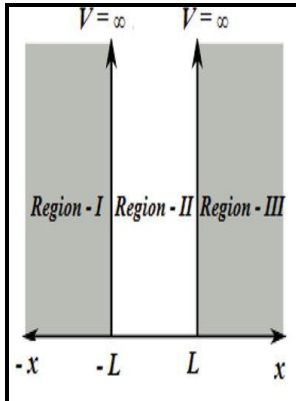# Classical and quantum electrodynamics and the B(3) field

World Scientific - Derivation of the B (3) Field and Concomitant Vacuum Energy Density from the Sachs Theory of Electrodynamics

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Weak self-oscillation of such permanent magnetic materials at higher frequency is known, of course; e. Rather, it relates two equivalent mathematical descriptions of the same quantum state. The failure to remove the cut-off Λ from calculations in such a theory merely indicates that new physical phenomena appear at scales above Λ, where a new theory is necessary.

Classical field theory limit of many

The reason for this is very simple: in the small field approximation, the nonlinear electrodynamics of Heisenberg-Euler and Born-Infeld are surprisingly similar, coinciding up to scaling constants compare equations and versus equations and measuring the nonlinearity of the corresponding theories. Lev Landau claimed that low-energy excitations in many condensed matter systems could be described in terms of interactions between a

set of quasiparticles. This implied that the electromagnetic radiation, while being waves in the classical electromagnetic field, also exists in the form of particles.

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