Classical and quantum electrodynamics and the B(3) field

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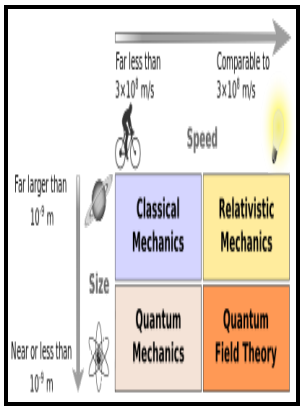

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Complex Form of Classical and Quantum Electrodynamics

Evans, Wiley, 2001 in press , Vol.

Complex Form of Classical and Quantum Electrodynamics

The B 3 field is the link between electrodynamics and non-Abelian gauge field theory in special relativity. The effects of the quantum electrodynamics vacuum polarization and magnetization introduce third-order nonlinearity, such that vacuum itself can be considered a nonlinear medium with appropriate constitutive relations Here 0 and μ 0 are the electric permittivity and the magnetic permeability of vacuum , respectively, D and H are the electric displacement vector and the intensity of the magnetic field, respectively, while P is the electric polarization and M is the magnetization.

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