

Theory of the Light Particle 824

On Density Matrix in the Theory of the Positron (April 9, 1936)

positron is negative energy of electron with infinite charge density & ... electron & positron a complete symmetry ... electron & anti-positron, positron & anti-electron ... a equivalence ... potential ... finite number of electrons and positrons ... charge density matrix or finite ... potential ... field ... Jordan's gauge invariant density matrix ...

field ... Dirac's ...

introduce the density matrix ... consistent solution ... field ... chargeless, currentless ... vacuum ...

Dirac's approximation ... exact quantum electrodynamics ... density matrix element ... operator ... commutative ...

V.R. ...