

THE ENERGY-MOMENTUM
TENSOR FOR 1/2-SPIN PARTICLES
WITH ELECTRIC AND MAGNETIC
POLARIZABILITIES

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S u m m a r y

Using the formalism of the relativistic electrodynamics of continuous media and the main principles of relativistic quantum field theory, the covariant Lagrangian of the interaction of an electromagnetic field with polarizable 1/2-spin particles has been obtained. This Lagrangian allows us to determine the canonical and metric energy-momentum tensors as well as the low-energy Compton scattering amplitude.