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Radiation transfer in a strong magnetic field with resonance effects taken into account

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The solution of the kinetic equation for finding the distribution function of photons of two possible polarizations in an equilibrium $e+e-$ plasma in a relatively strong magnetic field in the cold plasma approximation and taking into account resonance on a virtual electron is considered. Using the Laplace transform and sum of the distribution function in terms of Legendre polynomials, the problem is reduced to a system of differential equations, the coefficients of which can be easily calculated numerically.

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