Erratum: Electromagnetically induced left-handedness in a dense gas of three-level atoms

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(Received 17 May 2005; published 20 July 2005)

The formula [Eq. (19)] for the induced dipole moment of the atom contains a sign mistake in the exponent. After correcting the error it should read

$$\langle \hat{\mu} \rangle = -\frac{\Omega_1 \Omega_2^* \mu_{12} \exp[i(\nu_2 - \nu_1)t]}{4(i\Delta + \gamma_1)[i(\Delta - \delta) + \gamma_1] + |\Omega_2|^2} + \text{c.c.}$$  \hspace{1cm} (1)

As the expression includes the complex conjugate, there is a term matched to the probe field and the conclusions in the paper are not affected.

In the sixth paragraph, it is stated that two media related as $\varepsilon_2(\omega) = -\varepsilon_1(\omega)$ and $\mu_2(\omega) = -\mu_1(\omega)$ would have the same indices of refraction. This is incorrect. These relations give two media with the same wave impedance but opposite indices of refraction $n_2 = -n_1$.

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