**Erratum: Covariant Hamiltonian approach for time-dependent potentials
applied to a pill-box cavity
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The authors of the paper wish to correct a minor typographical error in the Sec. V before the Eq. (30): the substitution $v^2 = (1 - \frac{1}{\gamma^2})$ is wrong. The correct substitution is $\frac{v^2}{c^2} = (1 - \frac{1}{\gamma^2})$.

This error does not affect the results of the paper because the Eq. (30) is calculated using the correct substitution, the error is only typographical.