**Erratum: Thermal field theory in a layer: Applications of thermal field
theory methods to the propagation of photons
in a two-dimensional electron sheet
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José F. Nieves

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In various equations it is not clearly indicated in some cases that the symbols representing some vector variables actually stand for their transverse counterpart. To clarify this, the replacements indicated below should be made. (The calculations and results, including the discussion of the calculation of the dispersion relations, are not affected by these).

- (1) In Eq. (2.7), replace $\tilde{g}_{\mu\nu}$ by $\tilde{g}_{\perp\mu\nu}$ in the formula for $R_{\mu\nu}$, and add the following formulas:

$$g_{\perp\mu\nu} = g_{\mu\nu} + n_\mu n_\nu, \quad \tilde{g}_{\perp\mu\nu} = \tilde{g}_{\mu\nu} + n_\mu n_\nu.$$

- (2) In Eq. (3.7), add the following formula:

$$\bar{\psi}\gamma_\mu\psi = \delta(z)\bar{\tilde{\psi}}\gamma_{\perp\mu}\tilde{\psi}.$$

- (3) On the right-hand side of Eq. (4.1), γ_μ should be replaced by $\gamma_{\perp\mu}$.
 (4) In the right-hand side of Eq. (4.2), A_μ should be replaced by $A_{\perp\mu}$.
 (5) Replace Eq. (4.3) by

$$J^\mu(x) = \delta(z)\hat{J}^\mu(x_\perp).$$

- (6) In Eq. (4.4), add the formula

$$\hat{J}(x_\perp) \cdot n = 0.$$

- (7) In Eq. (4.14), $\tilde{g}_\nu^\mu$ should be replaced by $\tilde{g}_{\perp\nu}^\mu$.
 (8) In Eq. (5.1), γ_μ and γ_ν should be replaced by $\gamma_{\perp\mu}$ and $\gamma_{\perp\nu}$, respectively.
 (9) In Eq. (5.4), $g_{\mu\nu}$ should be replaced by $g_{\perp\mu\nu}$.

The following typographical errors should be corrected:

- (1) In Eq. (5.8), the factor $2e^2$ in the formula for $\pi_T^{(m)}$ should be $4e^2$.
 (2) In Eq. (5.9), the term $2m_e^2 - 2p_\perp \cdot k_\perp$ in the numerator of the integrand in the formula for A_e should be $2m_e^2 - p_\perp \cdot k_\perp$ (i.e., without the factor of 2 in $p_\perp \cdot k_\perp$).
 (3) In Eqs. (5.16) and (5.22), the electron mass should appear without the square, i.e., m_e^2 should be replaced by m_e .