Erratum

Causal structure of the thermal propagator in real-time formalisms

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Equations (1.3), (2.4), (2.6) and (2.22) involve incorrect signs: In (1.3) the term $\Theta(-p_0)e^{x/4}$ should be replaced by $-\Theta(-p_0)e^{x/4}$. The rhs of (2.4) should be multiplied by -1 . The factors $e^{\beta\mu/2}$ and $-e^{-\beta\mu/2}$ in (2.6) should be replaced by $-e^{-\beta\mu/2}$ and $e^{\beta\mu/2}$ respectively. Equation (2.22) should have read:

$$\sin \theta_f = \frac{\Theta(f(p))e^{-x/4} - \Theta(-f(p))e^{x/4}}{\sqrt{e^{x/2} + e^{-x/2}}}$$

with $x = \beta(p_0 - \mu)$. In the summary the phrase “in general incorrect” should be replaced by the phrase “not always correct”.