**Erratum: Hard thermal loops, to quadratic order,
in the background of a spatial 't Hooft loop
[Phys. Rev. D **80**, 036004 (2009)]**

Yoshimasa Hidaka and Robert D. Pisarski

(Received 2 September 2020; published 28 September 2020)

DOI: [10.1103/PhysRevD.102.059902](https://doi.org/10.1103/PhysRevD.102.059902)

1. The right-hand side of Eq. (118) is missing a factor of “ i ”:

$$\frac{1}{16\pi^2} \int_0^\infty dk k^2 (n(k - iQ_1) - n(k + iQ_1) + n(k - iQ_2) - n(k + iQ_2)) = i \frac{\pi T^3}{12} (\mathcal{A}_0(Q_1) + \mathcal{A}_0(Q_2)). \quad (1)$$

2. Similarly, there is an “ i ” missing in Eq. (137),

$$\tilde{\mathcal{J}}^{\mu\nu}(P^{12}, Q_1, Q_2)^{\text{HTL}} \approx i \frac{\pi T^3}{6} (\mathcal{A}_0(Q_1) + \mathcal{A}_0(Q_2)) \delta\Gamma^{\mu\nu}(P^{12}) + \frac{T^2}{24} (\mathcal{A}(Q_1) + \mathcal{A}(Q_2)) \delta\Pi^{\mu\nu}(P^{12}). \quad (2)$$

3. Equation (158) has an additional factor of $i\pi/3$:

$$\mathcal{K}^{ab,cd}(Q) = \frac{i\pi}{3} 2g^2 T^3 \delta^{ad} \delta^{bc} \left[\sum_{e=1}^{N_c} (\mathcal{A}_0(Q^{ae}) + \mathcal{A}_0(Q^{eb})) - N_f (\mathcal{A}_0(\tilde{Q}^a) + \mathcal{A}_0(-\tilde{Q}^b)) \right]. \quad (3)$$