## Erratum

## The Dielectric Constant of Liquid Metals

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The formulas of the paper apply to a grand canonical ensemble; the following corrections arise from the dependence of the chemical potential on the scattering. Eq. (16) must be replaced by

$$\Pi^{(0)} = \frac{k^2 N e^2}{m \Omega^2} (1 - \lambda)$$

with

$$\lambda = rac{4\,m^2}{N\,(2\,\pi)^4}\int\limits_0^\infty dq\, q\, |V_q|^2\, S(q) \ln \left|rac{q+2\,p_{
m F}}{q-2\,p_{
m F}}
ight|.$$

In Sect. 5,  $\gamma(\Omega)$  must always be replaced by  $\gamma(\Omega) - \lambda$ . Note that  $\lambda$  cancels with the frequency independent part of  $\gamma(\Omega)$ . Eq. (38) must be replaced by

$$\gamma_0 = rac{16 m^2}{3 \, (2 \, \pi)^4 N} \int \limits_0^\infty dq \, q \, |V_q|^2 \, S(q) \left\{ rac{1}{4} \ln \left| rac{q + 2 \, p_{
m F}}{q - 2 \, p_{
m F}} 
ight| + rac{q \, p_{
m F}}{(2 \, p_{
m F})^2 - q^2} 
ight\}.$$

These changes do not modify the results of Appendix C.