

Erratum to: Non-hydrodynamic collective modes in liquid metals and alloys^{*}

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A misprint has been found in paper [1] in expression for the propagation gap for transverse collective excitations, equation (24). The power index “2” at the shear viscosity was missing. The correct expression reads:

$$k_{sw} = \left[\frac{\rho G(k)}{4\eta^2(k)} \right]^{\frac{1}{2}} \Big|_{k \rightarrow 0} = \left[\frac{\rho G}{4\eta^2} \right]^{\frac{1}{2}},$$

where ρ is mass density, $G(k)$ – wavenumber-dependent shear modulus and $\eta(k)$ – wavenumber-dependent shear viscosity. Since this was just a single misprint the following expressions for relaxing eigenmodes, equation (25), dispersion $\omega_{sw}(k)$ and damping $\sigma_{sw}(k)$ of shear waves, equation (26), are correct and remain the same as in [1] and as in the original derivation of transverse eigenmodes [2].

References

1. T. Bryk, Eur. Phys. J. Special Topics **196**, 65 (2011)
2. T. Bryk, I. Mryglod, J. Phys.: Condens. Matter **12**, 6063 (2000)

^{*} The online version of the original article can be found at
<https://doi.org/10.1140/epjst/e2011-01419-x>.

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