Erratum


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1. In the line below Eq. (3) there should be ‘Nρ’ instead of ‘Nρ’.
2. ϵzz(k) given by Eq. (4) should read:
   \[ ϵzz(k) = 1 - \frac{ω_0^2}{ω^2} \left[ (k_x^2 + k_y^2)u^2 + ω^2(1 - u^2))(ω^2 + k_z^2u^2) \right] \]

Because of the erroneous expression of ϵzz(k) the analysis of collective modes needs to be corrected as explained below.
3. Eq. (7) with the sentence that contains it should be replaced by: ϵzz(k) = 1 for u^2 = 1 and then, there are no longitudinal modes. However, if one solves the equation ϵzz(k) = 0 for u^2 < 1 and then takes the limit u^2 → 1, the dispersion relation is ω^2 = k^2.
4. The sentence above Eq. (8) ‘The dispersion relation of the longitudinal model coincides with (7)’ should read ‘The dispersion relation of the longitudinal mode is ω^2 = ω_0^2’.
5. Eq. (8) should read: ω_±^2 = \frac{1}{2} [k^2 ± \sqrt{k^4 + 4ω_0^2k^2}].

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