

---



---

**ERRATA**


---



---

**Erratum: Third-frequency-moment sum rule and long-wavelength plasmon dispersion  
in layered electron liquids  
[Phys. Rev. A 45, 1084 (1992)]**

Kenneth I. Golden and De-xin Lu

PACS number(s): 52.25.Mq, 52.35.Fp, 73.20.Mf, 99.10.+g

There is a typographical error on the second line of Eq. (25):  $5/(6k'd)$  should read  $5/(16k'd)$ .

Equation (25) and the conclusion drawn from it are correct only if one ignores interlayer correlations beyond the random-phase approximation (RPA). If, however, one takes account of interlayer correlations beyond the RPA, then Eq. (25) should be modified by addition of the following term to its right-hand side:

$$\frac{1}{2k^2d^2} \frac{1}{A} \sum_{\mathbf{k}'} \frac{1}{N_L} \sum_{|q'| \leq \pi/d} k'd g(\mathbf{k}', q') \sinh(k'd) \left[ \frac{1}{\cosh k'd + \cos q'd} - \frac{1}{\cosh k'd - \cos q'd} \right].$$

This leads to important consequences in the dispersion relation of correlated superlattices (Ref. [1] below).

---

[1] G. Kalman and K. I. Golden, in *Condensed Matter Theories 8*, edited by L. Blum and S. B. Malik (Plenum, New York, 1993), pp. 127–138.