ERRATA

Optical Activity of Selenium: A Nearly First-Principles Calculation [Phys. Rev. Lett. 69, 379 (1992)]

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The following corrections should be made.
The third term of Eq. (1) should be

$$\frac{i}{4\pi} n_{ijl} q_j E_l .$$

Equation (2) should be

$$\rho = \tfrac{1}{2}\alpha\omega(n_+ - n_-) = \tfrac{1}{2}\alpha^2\omega^2\eta_{231} .$$

Figure 1 should be replaced by the new figure below. The figure has been corrected to display revised numerical results for our calculation which are some (50–70)% of the values originally given. The revised calculated results agree less well with the experiments than the original ones. The authors believe that some physical effect has been left out of the calculation, such as local field corrections, as opposed to a purely numerical problem. A fuller discussion, with application to α-quartz as well as Se, may be found in H. Zhong (Ph.D. thesis, Ohio State University, 1993).

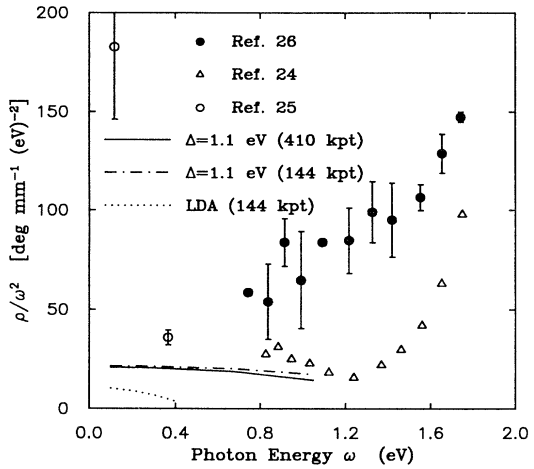

FIG. 1. The optical rotatory power ρ divided by ω^2 [which is suggested by Eq. (2)] of selenium for photon energies less than the direct band gap. We display the LDA result for 144 integration points (dotted line) and the self-energy-corrected result with $\Delta = 1.1$ eV for 144 (dash-dotted line) and 410 (solid line) integration points as a function of the photon energy ω (in eV). The sign of ρ is taken to be positive for Refs. [24] and [25].

Hardness and Softness in the *Ab Initio* Study of Polyatomic Systems [Phys. Rev. Lett. 70, 21 (1993)]

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In the caption of Fig. 3, (a) and (b) should be interchanged in the first sentence, i.e., (a) corresponds to Ga and (b) to Si.