

Erratum: Rainbow scattering of argon from 2H-W(100) [Phys. Rev. B **80, 115404 (2009)]**

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There is an error in Eq. (2.21) of our paper. The correct expression is

$$\Sigma^2(x) = \frac{\left(\frac{\sin^2(\theta_{i0}) \langle \Delta E_B \rangle}{E_0} + \eta_x \int_{-t_0}^{t_0} dt g^2(z_t) \left[\cos(2\theta_{i0}) + \cos\left(\frac{4\pi x}{l}\right) \cos(2\omega_x t) \right] \right)}{\beta E_0 \cos^2(\theta_{i0})}.$$

This error has minor effects. The same quality of fit as shown in Figs. 1–6 of the paper is obtained by a small change in the model parameters. The revised (previous) parameters are $\eta_x/\omega_0=0.00320$ (0.00267); $M^2\omega_0^3\eta_z=0.00274$ (0.00228); $h_1=0.11$ (0.099) a.u.; $h_2=-0.0077$ (-0.007) a.u. These corrections do not cause a noticeable change in the fits of the theory to experiment. There is thus no change in the conclusions reached in the paper, especially with regards to the analysis of the experimental results.