

**Erratum: Classical theory for asymmetric in-plane atom surface scattering
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There is an error in Eq. (3.17) of our paper. The correct expression is:

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

This error is however minor and does 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.