Erratum: Electron diffraction by plasmon waves [Phys. Rev. B **94**, 041404(R) (2016)]

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The explicit factor of γ should be removed from Eqs. (2), (3), and (8) as well as from the displayed equation for β on p. 2 of the paper, so they become

$$\frac{-ev}{\hbar\omega}(e^{-i\omega t}\mathcal{E}_z - e^{i\omega t}\mathcal{E}_z^*)\phi = \left(v\frac{\partial}{\partial z} + \frac{\partial}{\partial t}\right)\phi, \quad (2)$$

$$\frac{\partial f_\ell}{\partial z} = \frac{e}{\hbar\omega}(\mathcal{E}_z^* e^{i\omega z/v} f_{\ell+1} - \mathcal{E}_z e^{-i\omega z/v} f_{\ell-1}), \quad (3)$$

$$g = e\mathcal{E}_0\lambda_p/2\pi\hbar\omega, \quad (8)$$

$$\beta(z) = \frac{e}{\hbar\omega} \int_{-\infty}^z dz' \mathcal{E}_z(z') e^{-i\omega z'/v},$$

respectively. Additionally, the first exponential in Eq. (5) has to be changed, so it becomes

$$\psi(\mathbf{r}, t) = \frac{1}{4\pi^2\sqrt{V}} \sum_{\ell} e^{i\varphi_{\ell}} \int d^2\mathbf{k}_{\perp} e^{i\mathbf{k}_{\ell}\cdot\mathbf{r}} f_{\ell,\mathbf{k}_{\perp}}. \quad (5)$$

Finally, the calculations presented in Fig. 2 correspond to $g = 1$ (upper panels) and $g = 5$ (lower panels) instead of $g = 1/2$ and $g = 5/2$, respectively. These errors do not affect the main results and conclusions of the paper.