

**Erratum: Orbital-free kinetic-energy density functionals with a density-dependent kernel  
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1. Equation (42) should appear as

$$\begin{aligned}
 w_{\alpha,\beta}[\xi_{\gamma}(\mathbf{r},\mathbf{r}'),\mathbf{r}-\mathbf{r}'] &= w_{\alpha,\beta}[k_F^*,\mathbf{r}-\mathbf{r}'] + \left. \frac{\partial w_{\alpha,\beta}[\xi_{\gamma}(\mathbf{r},\mathbf{r}'),\mathbf{r}-\mathbf{r}']}{\partial \rho(\mathbf{r})} \right|_{\rho_*} \theta(\mathbf{r}) + \left. \frac{\partial w_{\alpha,\beta}[\xi_{\gamma}(\mathbf{r},\mathbf{r}'),\mathbf{r}-\mathbf{r}']}{\partial \rho(\mathbf{r}')} \right|_{\rho_*} \theta(\mathbf{r}') \\
 &+ \left. \frac{\partial^2 w_{\alpha,\beta}[\xi_{\gamma}(\mathbf{r},\mathbf{r}'),\mathbf{r}-\mathbf{r}']}{\partial \rho^2(\mathbf{r})} \right|_{\rho_*} \frac{\theta^2(\mathbf{r})}{2} + \left. \frac{\partial^2 w_{\alpha,\beta}[\xi_{\gamma}(\mathbf{r},\mathbf{r}'),\mathbf{r}-\mathbf{r}']}{\partial \rho^2(\mathbf{r}')} \right|_{\rho_*} \frac{\theta^2(\mathbf{r}')}{2} \\
 &+ \left. \frac{\partial^2 w_{\alpha,\beta}[\xi_{\gamma}(\mathbf{r},\mathbf{r}'),\mathbf{r}-\mathbf{r}']}{\partial \rho(\mathbf{r})\partial \rho(\mathbf{r}')} \right|_{\rho_*} \theta(\mathbf{r})\theta(\mathbf{r}') + \dots, \tag{42}
 \end{aligned}$$

where all derivative terms should be evaluated at a reference uniform density  $\rho_*$ .

2. In the caption of Table I, sc cell has 8 atoms (instead of 4 atoms).
3. In Tables I–III, each occurrence of  $\{\frac{5}{6} \pm (4\sqrt{2} - 5)/6\}$  should have been printed as  $\{\frac{5}{6} \pm (4\sqrt{2} - 5)/6\}$ .
4. In Figs. 3–5, the units for the  $x$  axis should be “atomic units” (instead of “arb. units”).