

ERRATA

Erratum: Exact Green's function for the step and square-barrier potentials [Phys. Rev. A 48, 2567 (1993)]

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We regret that in the above paper some equations have been misprinted. We list below the corrections to these equations:

(1) Equation (3.3), for $k > k_0$ should read

$$G_{--}^{\pm}(x, x', E) = \pm \frac{m}{ik\hbar^2} [e^{\pm ik|x-x'|} + r(k)e^{\mp ik(x+x')}] .$$

(2) Equation (4.5). The conditions for $k > k_0$ and $k < k_0$ should be interchanged.

(3) Equation (4.6) should read

$$G_{00}^{\pm}(x, x', E) = \begin{cases} \frac{m}{k\hbar^2} \frac{e^{\pm ika}}{\sin 2\mu a} \{ [\alpha_{\pm}(\pm k)e^{\mp i\mu a} - \alpha_{\mp}(\pm k)e^{\pm i\mu a}] \cos \mu(x+x') \\ - [\alpha_{\pm}(\pm k)e^{\pm i\mu a} - \alpha_{\mp}(\pm k)e^{\mp i\mu a}] \cos \mu(x-x') \}, & \text{if } k > k_0 \\ \frac{m}{k\hbar^2} \frac{e^{\pm ika}}{\sinh 2va} \{ [\beta_{-}(\pm k)e^{va} - \beta_{+}(\pm k)e^{-va}] \cosh v(x+x') \\ - [\beta_{-}(\pm k)e^{-va} - \beta_{+}(\pm k)e^{va}] \cosh v(x-x') \}, & \text{if } k < k_0. \end{cases}$$

(4) The continuity conditions for the Green's function of the square-barrier potential (p. 2571) should read

$$G_{--}(-a, x', E) = G_{-0}(-a, x', E) ,$$

$$G_{-0}(x, -a, E) = G_{00}(x, -a, E) .$$

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Erratum: Equations satisfied by the kinetic-energy functional and its derivatives [Phys. Rev. A 50, 3527 (1994)]

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Equation (13) should read

$$(\nabla_1 + \cdots + \nabla_m) T^m(\mathbf{r}_1, \mathbf{r}_2, \dots, \mathbf{r}_m, [n]) = - \int d\mathbf{r} n(\mathbf{r}) \nabla T^{m+1}(\mathbf{r}, \mathbf{r}_1, \mathbf{r}_2, \dots, \mathbf{r}_m, [n]) .$$

As a consequence, Eq. (14),

$$T[n] = -\frac{1}{2}(-1)^m \frac{1}{m!} \int \prod_{i=1}^{m+1} \{d\mathbf{r}_i n(\mathbf{r}_i)\} \mathbf{r}_{m+1} \cdot \nabla_1 T^{m+1}(\mathbf{r}_1, \mathbf{r}_2, \dots, \mathbf{r}_{m+1}, [n]) ,$$

is valid for $m = 0, 1$ only.

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