Erratum: General Green's function formalism for layered systems: Wave function approach [Phys. Rev. B **95**, 075421 (2017)]

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(Received 22 August 2017; published 12 September 2017)

DOI: [10.1103/PhysRevB.96.119905](https://doi.org/10.1103/PhysRevB.96.119905)

There are two notation problems to be corrected. First, in some equations in Sec. III B, the scatterer C is incorrectly denoted by S . Second, a_L (a_R) denotes the left (right) surface of scatterer A in Sec. III C, but it denotes the thickness of a unit cell in the left lead L (right lead R) elsewhere. Moreover, in Secs. IV B and IV C, a certain a_L (or a_R) is denoted incorrectly by a .

The following corrections for the notations are necessary to eliminate these problems:

(1) On the left-hand side of Eqs. (45b) and (45c), the symbol $m_0 \in S$ in the subscript should be replaced with $m_0 \in C$. Similarly, on the left-hand side of Eq. (49), the symbol $m \in S$ in the subscript should be replaced with $m \in C$.

(2) At the end of the first sentence of Sec. III C 1: "... the semi-infinite right lead R .", add a new sentence "Notice that a_L (a_R) denotes the left (right) surface of the scatterer A throughout Sec. III C, but it denotes the thickness of a unit cell of the left lead L (right lead R) elsewhere."

(3) At the end of the second sentence of Sec. IV A: "... follows from Eqs. (46)–(48).", add a new sentence "Here a_L (a_R) denotes the thickness of a unit cell in the left lead L (right lead R). This notation is used throughout this paper except for Sec. III C, where a_L (a_R) is used to denote the left (right) surface of scatterer A ."

(4) In Eqs. (80a)–(80d) and (93)–(96), the inline expression $\sum_{\alpha} e^{ik_{+, \alpha}^{(L)}(m_L - m_0)a} \dots$ between Eqs. (80d) and (81) and the inline expression $\sum_{\alpha} e^{ik_{+, \alpha}^{(L)}(m_L - m_0)a} \dots$ between Eqs. (81) and (82), the symbol a on the exponential should have a subscript L or R , i.e.,

$$\begin{aligned}(m - m_R)a &\rightarrow (m - m_R)a_R, \\(m - m_L)a &\rightarrow (m - m_L)a_L, \\(m_L - m_0)a &\rightarrow (m_L - m_0)a_L, \\(m_R - m_0)a &\rightarrow (m_R - m_0)a_R.\end{aligned}$$

Altogether there are 18 replacements.

(5) On the right-hand side of Eq. (76), the symbol q_p should be replaced with a_p .

Obviously, these corrections for the notations do not affect any final result or conclusion of the paper.