

Erratum: Integer quantum Hall transition: An S-matrix approach to random networks [Phys. Rev. B **110**, L081112 (2024)]

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In Eq. (8) of our paper, there is a typographical error in the expressions for the total transmission and right-reflection matrices obtained from the star-product composition of two scattering matrices.

Equation (8) was printed as

$$\begin{aligned} R &= R_1 + T_1'(1 - R_2 R_1')^{-1} R_2 T_1, \\ T &= T_2(1 - R_2 R_1')^{-1} T_1, \\ R' &= R_2' + T_2(1 - R_2 R_1')^{-1} R_1' T_2', \\ T' &= T_1'(1 - R_2 R_1')^{-1} T_2'. \end{aligned} \tag{1}$$

The correct expressions are

$$\begin{aligned} R &= R_1 + T_1'(1 - R_2 R_1')^{-1} R_2 T_1, \\ T &= T_2(1 - R_1' R_2)^{-1} T_1, \\ R' &= R_2' + T_2(1 - R_1' R_2)^{-1} R_1' T_2', \\ T' &= T_1'(1 - R_2 R_1')^{-1} T_2'. \end{aligned} \tag{2}$$

The error is confined to the ordering of the matrix product in the inverse appearing in the expressions for T and R' , where the inverse must be taken as $(1 - R_1' R_2)^{-1}$ rather than $(1 - R_2 R_1')^{-1}$.

All derivations, calculations, numerical results, and conclusions presented in the paper were carried out using the correct expressions, and this correction does not affect any of the results or conclusions of the published work.