Erratum: Wire deconstructionism of two-dimensional topological phases [Phys. Rev. B **90**, 205101 (2014)]

Titus Neupert, Claudio Chamon, Christopher Mudry, and Ronny Thomale
(Received 1 January 2016; published 15 January 2016)

DOI: [10.1103/PhysRevB.93.039905](https://doi.org/10.1103/PhysRevB.93.039905)

Minor errors that are related to the transformations between equivalent bosonic representations of the wire construction are corrected. These changes are inconsequential for any of the results of the paper.

The definition of the transformation between variables that carry a tilde and those without tilde, given by Eq. (4.6), should read

$$\hat{\Phi}(x) =: \mathcal{W}\tilde{\Phi}(x), \quad (1a)$$

$$\mathcal{T} =: \mathcal{W}\tilde{\mathcal{T}}, \quad (1b)$$

$$K =: (W^T)^{-1}\tilde{K}W^{-1}, \quad (1c)$$

so as to leave the theory defined by Hamiltonian (2.5d) form invariant. Moreover, it should be supplemented by the transformation law of the charge vector

$$Q =: (W^T)^{-1}\tilde{Q}. \quad (1d)$$

The transformation W in Eq. (4.7) should read

$$W = \begin{pmatrix} 0 & -1 & -1 & 0 & 0 & 0 \\ +1 & -1 & -1 & 0 & 0 & 0 \\ +1 & 0 & -1 & 0 & 0 & 0 \\ 0 & 0 & 0 & -1 & 0 & +1 \\ 0 & 0 & 0 & -1 & -1 & +1 \\ 0 & 0 & 0 & -1 & -1 & 0 \end{pmatrix}. \quad (2)$$

This transformation W leaves the matrix $\tilde{K}$ from Eq. (4.8) unaltered and yields the same transformed charge vector $\tilde{Q}$ as given in Eq. (4.9), provided one computes $\tilde{Q}$ using the correct definition $\tilde{Q} = W^T Q$ instead of the one that was originally employed in Eq. (4.9).