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This paper was published online on 6 July 2015 with minor typographical errors in the Appendix of the article. On page 11, the second line above Eq. (A1) should read as “approximation $\partial_\tau \phi_{i\alpha} \times \phi_{i\alpha} \approx \partial_\tau \phi_{i\alpha}$, we find . . .”; the second line of Eq (A2) should read as

$$\int D\bar{\alpha} D\alpha \exp \left\{ \int d^3x \bar{\alpha} [i\tau_\mu \partial_\mu + ig\tilde{\phi}_{i\alpha}] \alpha \right\},$$

The second line after Eq. (A2) should read as “we have defined $\bar{\alpha} \equiv i\tau_z \alpha^\dagger$, $g \equiv J/4t$ and $\tilde{\phi}_{i\alpha} \equiv \phi \cdot \Gamma$. Correspondingly, . . .”; Eq. (A3) should read as

$$S_{\text{eff}} = \ln \det(i\tau_\mu \partial_\mu + ig\tilde{\phi}_{i\alpha}). \quad (\text{A3})$$

The second line after Eq. (A3) should read as “and write the Dirac operator in the form $\mathcal{D} = i\tau_\mu \partial_\mu + ig\tilde{\phi}_{i\alpha}$, . . .”. On page 11, in the left-hand column, the seventh line of the second paragraph should read as “analysis of these two distinct . . .”. The paper has been corrected as of 14 September 2015. The text is incorrect in the printed version of the journal.