Erratum: Simulation of non-Abelian lattice gauge fields with a single-component gas

Arkadiusz Kosior and Krzysztof Sacha

1 Instytut Fizyki imienia Mariana Smoluchowskiego, Uniwersytet Jagielloński - Lojasiewicza 11, 30-348 Kraków, Poland
2 Mark Kac Complex Systems Research Center, Uniwersytet Jagielloński - Lojasiewicza 11, 30-348 Kraków, Poland

Original article: EPL, 107 (2014) 26006.

PACS 99.10.Cd – Errata

Copyright © EPLA, 2015

Due to a minor mistake in the computer code, the correct energy spectra in fig. 3 are slightly different from the published ones. The correct fig. 3 along with a shortened version of its caption are displayed here below.

Moreover, the effective mass in the top panel of fig. 4 is not \( m_{\text{eff}} = 2 \), as indicated in the figure caption, but \( m_{\text{eff}} = 1/2 \).

The mistakes do not change any conclusion of the article.

Fig. 3: The energy spectrum \( E(\phi_x) \) as a function of the Abelian magnetic flux \( \phi_x \) for \( t_y = t_x = 1 \), \( \alpha = \beta = \pi/3 \) and the mass parameter \( m_{\text{eff}} = 0 \) (top panel) and \( m_{\text{eff}} = 3 \) (middle panel). The energy spectrum at the bottom panel is calculated for \( t_y/t_x = 2 \), \( \alpha = 0.3 \), \( \beta = \pi/3 \) and \( m_{\text{eff}}/t_x = 0.8 \), which correspond to the experimental parameters discussed in the main text.