

**Erratum: Stability of dark solitons in a Bose-Einstein condensate trapped in an optical lattice
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We have noted the following typographical errors in the text:

The form of the optical lattice when stating the Gross-Pitaevskii equation [Eq. (1)] is of the cosine type where it should be of the sine type. Therefore Eq. (1) should read

$$iu_t = -u_{xx} + |u|^2u + [kx^2 + V_0 \sin^2(2\pi x/\lambda)]u. \quad (1)$$

In the caption of Fig. 3 and in the second paragraph of page 3 of the manuscript the value of $k=0.024$ should be replaced by $k=0.0024$.

Finally, given the opportunity, we should note, to avoid any misunderstandings in Fig. 1 (since its bottom right panels show a stable structure), that very near the linear limit (and more specifically for $0.113 \leq k \leq 0.119$), the solution of interest is, in fact, stable.

We should also clarify that the above mentioned typographical errors do not change *in any way* the results of the text or the qualitative/quantitative meaning. In fact, these results have been rechecked/reproduced in full detail, during the preparation of the present note.