OPEN Publisher Correction: Quantum control operations with fuzzy evolution trajectories based on polyharmonic magnetic fields

Jesús Fuentes

Correction to: *Scientific Reports* <https://doi.org/10.1038/s41598-020-79309-8>, published online 17 December 2020

The original version of this Article contained a repeated error, where the Blackboard Bold 1 symbol did not display correctly in Equations 9, 17, 25, 26, and 33, and in the Results section.

In addition, in the Introduction,

“Note that if we define $\rho^2 = (X - \bar{X})^2 + (Y - \bar{Y})^2$, then $\pi\rho^2 = \frac{2\pi}{m\omega_c^2}H$ can be interpreted as a fuzzy surface spanned by the transversal orbits.”

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Finally, in the Results section, under the subheading ‘Polyharmonic fields: exact operations’,

“However any other coordinate of the fuzzy centre could suffer a drift $\tilde{U}^\dagger(T)\tilde{X}_k\tilde{U}(T) = \bar{X}_k - iTF[\tilde{X}_j, \hat{X}_k]$, of course $j \neq k$.”

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The original Article has been corrected.

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