Publisher Correction: Determining eigenstates and thermal states on a quantum computer using quantum imaginary time evolution

Mario Motta , Chong Sun, Adrian T. K. Tan, Matthew J. O'Rourke , Erika Ye, Austin J. Minnich ,
Fernando G. S. L. Brandão and Garnet Kin-Lic Chan

Correction to: *Nature Physics* <https://doi.org/10.1038/s41567-019-0704-4>, published online 11 November 2019.

In the version of this Article originally published online, in the first equation in the sentence beginning “One popular approach is”, the term ‘ $-\partial_\beta|\Phi(\beta)\rangle$ ’ was repeated; the equation should have read “ $-\partial_\beta|\Phi(\beta)\rangle = \{|\Phi\rangle, \hat{H}|\Phi\rangle, \hat{H}^2|\Phi\rangle \dots\}|\Phi(\beta)\rangle$ ”. In the same sentence, in the expression “ $\langle\Phi(0)|\Psi \neq 0$ ”, the right ket bracket was missing and should have read ‘ $\langle\Phi(0)|\Psi\rangle \neq 0$ ’. All versions of this Article have been amended.

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In the version of this Article originally published online, and in the later correction, the first equation in the sentence beginning “One popular approach is” was incorrect; the correct equation is ‘ $-\partial_\beta|\Phi(\beta)\rangle = \hat{H}|\Phi(\beta)\rangle$ ’. This has now been amended in all versions of the Article.

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Publisher Correction: Mathematical languages shape our understanding of time in physics

Nicolas Gisin

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In the version of this Comment originally published online, the final sentence in Box 1 contained the erroneous text “numbers and stochastic”; it has now been removed.

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