**Erratum: Quantum metrology for a general Hamiltonian parameter
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Equation (10) should be set as follows:

$$F_g^{(Q)} = 4\langle\Psi_g|\Delta h_g^2|\Psi_g\rangle. \quad (10)$$

In the line before Eq. (10), $U_g|\Psi\rangle$ should be $|\Psi_g\rangle = U_g|\Psi\rangle$. And in the line following Eq. (10), $|\Psi\rangle$ should be $|\Psi_g\rangle$.

This correction does not affect the main results about the maximum Fisher information of estimating g , which is determined by the gap between the maximum eigenvalue and the minimum eigenvalue of h_g .

A note should be added to Eq. (35) that the computational basis of the matrix h in that equation is $|\pm B\rangle$.

The “+ i ” in the parentheses of Eq. (38) should be a “−” (without the imaginary unit i).

The leading factors B or B^2 in Eqs. (35), (36), and (38)–(40) should be removed.

In the paragraph following Eq. (40), $4B^2\|\overrightarrow{\partial_\theta n_\theta}\|^2$ should be $4\|\overrightarrow{\partial_\theta n_\theta}\|^2$.