Erratum: Hubbard-like Hamiltonians for interacting electrons in $s$, $p$, and $d$ orbitals
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Equation (22) contains an error and should read

$$\hat{V}_{\text{tot}} = \frac{1}{2} \left[ \left( U - \frac{1}{2} J' + \frac{5}{2} \Delta J \right) \hat{n}_x^2 - \frac{1}{2} \left( J' - 6 \Delta J \right) \hat{n}_y^2 + (J' - 6 \Delta J) \sum_{\alpha \beta} (\hat{n}_{\alpha \beta})_z^2 + \frac{2}{3} \Delta J \hat{Q}^2 \right] \, .$$

(1)

where $J' = J + \frac{5}{2} \Delta J$. In Sec. III B we state that the ungerade (odd) and gerade (even) symmetries correspond to a reflection through the midpoint of the dimer; whereas in fact it should be inversion through the midpoint of the dimer. These errors do not affect the results and conclusions of this paper.

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