

**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

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

where $J' = J + \frac{5}{2} \Delta J$. In Sec. IIIB 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.