Erratum: TaN molecule as a candidate for the search for a T, P -violating nuclear magnetic quadrupole moment [Phys. Rev. A **92**, 012521 (2015)]

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After the publication of this paper, we found an error in our computer code involving the calculation of the matrix elements of the operator corresponding to the molecular parameter W_M of the interaction of the nuclear magnetic quadrupole moment with electrons in heavy-atom molecules. This resulted in an extra factor of 1.5 in the final value of W_M . Therefore, Eqs. (24), (25), and (26) should read as follows:

$$0.143 W_M M = - \frac{10^{25}(3.1d_p + 2.3d_n)}{e \text{ cm}} \mu\text{Hz}, \quad (24)$$

$$0.143 W_M M = -5.1 \times 10^{10} \tilde{\theta} \mu\text{Hz}, \quad (25)$$

$$0.143 W_M M = -3.1 \times \frac{10^{27}(\tilde{d}_u - \tilde{d}_d)}{\text{cm}} \mu\text{Hz}. \quad (26)$$

The sentence after Eq. (26) should read as follows: The current limits on d_p , $|\tilde{\theta}|$, and $|\tilde{d}_u - \tilde{d}_d|$ ($|d_p| < 8.6 \times 10^{-25} e \text{ cm}$, $|\tilde{\theta}| < 2.4 \times 10^{-10}$, $|\tilde{d}_u - \tilde{d}_d| < 6 \times 10^{-27} \text{ cm}$ [1]) correspond to the shifts $|0.143 W_M M| < 27, 12$, and $19 \mu\text{Hz}$, respectively.

Column “ W_M ” of Table II should read as follows:

Method	W_M ($\frac{10^{33} \text{ Hz}}{e \text{ cm}^2}$)
20e-2c-CCSD	0.77
20e-2c-CCSD(T)	0.74
Correlation correction	−0.01
Basis-set correction	0.00
Core correction	−0.01
Final	0.72

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[1] M. D. Swallows, T. H. Loftus, W. C. Griffith, B. R. Heckel, E. N. Fortson, and M. V. Romalis, [Phys. Rev. A **87**, 012102 \(2013\)](https://doi.org/10.1103/PhysRevA.87.012102).