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ERRATUM

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Use of Ψ^{α}-ETOs in the unified treatment of electronic attraction, electric field and electric field gradient multicenter integrals of screened Coulomb potentials over Slater orbitals

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The author regrets that in the above article Equations (15), (57), (66) and after Equation (66) were some misprints. They are now reproduced correctly below:

$$O^{ij}(\eta,\vec{r}) = \sqrt{3}\left[f_{-22s}(\eta,\vec{r}) + \eta f_{-12s}(\eta,\vec{r}) + \frac{\eta^2}{3} f_{02s}(\eta,r)\right], \quad (15)$$

$$\frac{1}{R}\frac{\partial}{\partial R}\left(\frac{1}{R}\frac{\partial f}{\partial R}\right) = \left[(N-\nu-1)(N-\nu-3)R^{N-\nu-5} - z(2N-2\nu-3)R^{N-\nu-4} + z^2 R^{N-\nu-3}\right]\mathrm{e}^{-zR}. \quad (57)$$

$$f^{tk}_{\mu\nu\sigma,u'00}(z,z;\vec{R}) = f^{tk}_{\mu\nu\sigma,u'00,00}(z,z;\vec{R}) = z' \sum_{N=\nu+1}^{\mu+u'+1} g^{\alpha N\nu\sigma}_{\mu\nu\sigma,u'00} 2^N \left[(2\nu+1)/(2N)!\right]^{1/2} (zR)^{N-t-1} \cdot \sum_{\sigma'=0}^{k} \beta^k_{\sigma'}(N,\nu)(zR)^{\sigma'} \mathrm{e}^{-zR} \quad (66)$$

$$\beta^2_1(N,\nu) = -(2N-2\nu-3)$$

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