J Math Chem (2009) 45:891
DOI 10.1007/s10910-008-9488-y

ERRATUM

Use of Filter-Steinborn B and Guseinov Q_{ns}^{q} auxiliary functions in evaluation of two-center overlap integrals over Slater type orbitals

F. G. Pashaev

Received: 7 October 2008 / Accepted: 13 October 2008 / Published online: 31 October 2008

Erratum to: J Math Chem
DOI 10.1007/s10910-008-9436-x

In the above article, the corrections are given as follows:

(1) On p. 3, line 1, sentence "with $p = \frac{n-l}{2} + \frac{1}{4}\left(1-(-1)^{n-l}\right)$." should be changed to "with $\tilde{p} = \frac{n-l}{2} + \frac{1}{4}\left(1-(-1)^{n-l}\right)$."

(2) Eq. 9 should be changed to the corrected equation as follows:

$$
\begin{aligned}
&S_{nl\lambda,n'l'\lambda}\left(\zeta,\zeta',R\right)\\
&= N_{nl,n'l'}\left(p,t\right)\sum_{p_1=\tilde{p}}^{n-l}\omega_{nl}^{p_1}\sum_{j=1}^{p_1}F_{j-1}\left(2p_1-j-1\right)F_{p_1-j}\left(2p_1-2j\right)\left(p_1-j\right)!\\
&\quad\times\left(\zeta R\right)^{j}\sum_{p'=\tilde{p}_1}^{n'-l'}\omega_{n'l'}^{p'}\sum_{j'=1}^{p'}F_{j'-1}\left(2p'-j'-1\right)F_{p'-j'}\left(2p'-2j'\right)\left(p'-j'\right)!\left(\zeta' R\right)^{j'}\\
&\quad\times\sum_{\alpha=-\lambda}^{l}{}^{(2)}\sum_{\beta=\lambda}^{l'}{}^{(2)}\sum_{q=0}^{\alpha+\beta}g_{\alpha\beta}^{q}\left(l\lambda,l'\lambda\right)Q_{l+j-\alpha,l'+j'-\beta}^{q}\left(p,t\right),
\end{aligned}
\tag{9}
$$

where $\tilde{p} = \frac{n-l}{2} + \frac{1}{4}(1-(-1)^{n-l})$ and $\tilde{p}_1 = \frac{n'-l'}{2} + \frac{1}{4}\left(1-(-1)^{n'-l'}\right)$.

The online version of the original article can be found under doi:10.1007/s10910-008-9436-x.

F. G. Pashaev (✉)
Faculty of Physics, Baku State University, Baku, Azerbaijan
e-mail: faik.pashaev@yahoo.com