

## ERRATUM

Analytic perturbation functions for static interactions in perturbed angular correlations of  $\gamma$ -rays, T. Butz, Hyp. Int. 52(1989)189.

Please correct the following errors:

$$\text{eq. (20)} \quad P_2(\cos \varepsilon) = \frac{1}{16}(1 \pm 12 \cos \omega_L t + 3 \cos 2 \omega_L t)$$

$$\text{eq. (77)} \quad \hat{U} = \begin{pmatrix} a_{5/2} & 0 & b_{5/2} & 0 & c_{5/2} & 0 \\ 0 & c_{3/2} & 0 & b_{3/2} & 0 & a_{3/2} \\ a_{1/2} & 0 & b_{1/2} & 0 & c_{1/2} & 0 \\ 0 & c_{1/2} & 0 & b_{1/2} & 0 & a_{1/2} \\ a_{3/2} & 0 & b_{3/2} & 0 & c_{3/2} & 0 \\ 0 & c_{5/2} & 0 & b_{5/2} & 0 & a_{5/2} \end{pmatrix},$$

with

$$\begin{pmatrix} a_{5/2} \\ b_{5/2} \\ c_{5/2} \end{pmatrix} = \begin{pmatrix} 1 - 18\eta^2 / ((-8 - E_1)(-2 - E_1)) \\ -\eta\sqrt{10} / (-8 - E_1) \\ \eta^2\sqrt{180} / ((-8 - E_1)(-2 - E_1)) \end{pmatrix} \cdot \frac{1}{N_{5/2}},$$

$$\begin{pmatrix} a_{1/2} \\ b_{1/2} \\ c_{1/2} \end{pmatrix} = \begin{pmatrix} -\eta\sqrt{10} / (10 - E_3) \\ 1 \\ -\eta\sqrt{18} / ((-2 - E_3)) \end{pmatrix} \cdot \frac{1}{N_{1/2}},$$

$$\begin{pmatrix} a_{3/2} \\ b_{3/2} \\ c_{3/2} \end{pmatrix} = \begin{pmatrix} \eta^2\sqrt{180} / ((-8 - E_2)(10 - E_2)) \\ -\eta\sqrt{18} / (-8 - E_2) \\ 1 - 10\eta^2 / ((-8 - E_2)(10 - E_2)) \end{pmatrix} \cdot \frac{1}{N_{3/2}},$$

with the normalization factors

$$N_x = \sqrt{a_x^2 + b_x^2 + c_x^2}, \quad x = 5/2, 1/2, 3/2.$$

As prophesied after eq. (9), I became a victim of my change of nomenclature during the revision. However, there were serious errors in the eigenvectors, too.

Two lines above eq. (80): “. . . out of  $1/2$ ,  $3/2$ ,  $5/2$  not yet used . . .”

A Pascal version of a program illustrating the use of eqs. (77) and (79) together with table 2 and the complementarity rule eq. (80) or (85) is available from the author upon request.

I am grateful to P. Steiner for pointing out errors in eq. (77).