

Erratum

Muon Capture and Inelastic Electron Scattering in C¹² and O¹⁶, TABER DE FOREST, JR. [Phys. Rev. **139**, B1217 (1965)].

Equation (5) for M_{P^2} should be replaced by

$$M_{P^2} = 2\pi \sum_{b'} \left(\frac{\nu_{ab}}{\nu_\mu} \right)^2 \left| \sum_L i^L (2L+1)^{1/2} \begin{pmatrix} 1 & L & J_{b'} \\ 0 & 0 & 0 \end{pmatrix} \langle b' J_{b'}, T=1 \parallel \sum_{i=1}^A \tau^{(3)}(i) j_L(\nu_{ab} x_i) \mathfrak{Y}_{J_{b'} L 1} \cdot \sigma(i) \parallel 0^+, T=0 \rangle \right|^2.$$

Since only the dipole matrix elements were considered, the remaining equations are correct. Note that there is a misprint in Eq. (7). The factor $(2l'+2)$ should be replaced by $(2l'+1)$. Due to a computational error, the values of $(M_{A^2})_D^{(i)}$ and $(M_{P^2})_D^{(i)}$ given in Table III for the $J=0$ and $J=1$ states of C¹² are incorrect and should be replaced by

C ¹²				C ¹² (RPA)			
J_i	E_i	$(M_{A^2})_D^{(i)}$	$(M_{P^2})_D^{(i)}$	J_i	E_i	$(M_{A^2})_D^{(i)}$	$(M_{P^2})_D^{(i)}$
0	25.66	0.037	0.110	0	25.53	0.034	0.101
	35.78	0.035	0.106		35.37	0.028	0.085
1	19.57	0.015		1	19.76	0.014	
	23.26	0.032			23.08	0.032	
	25.01	0.114			24.95	0.093	
	35.80	0.051			35.61	0.041	

The corresponding changes in Tables IV and V are

Nucleus	$(M_{A^2})_D$	$(M_{P^2})_D$	$(M_{A^2})_{UD}$	$(M_{P^2})_{UD}$	$(M_{A^2})_D / (M_{A^2})_{UD}$	$(M_{P^2})_D / (M_{P^2})_{UD}$
C ¹²	0.562	0.550	0.792	0.774	0.710	0.711
C ¹² (RPA)	0.496	0.490	0.701	0.692	0.708	0.708

and, therefore, $(M_{V^2})_D = (M_{A^2})_D = (M_{P^2})_D$ is good to 3% for C¹².

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