

Erratum: SU(6) strong breaking: structure functions and static properties of the nucleon
[Phys. Rev. D 12, 2137 (1975)]

A. LeYaouanc, L. Oliver, O. Pène, and J. C. Raynal

Equation (3.17) should read

$$\begin{aligned} \langle \phi'^0 | \hat{\epsilon}(3)^2 | \phi'^0 \rangle &= \frac{1}{9}, & \langle \phi''^0 | \hat{\epsilon}(3)^2 | \phi''^0 \rangle &= \frac{1}{3} \\ \langle \phi'^+ | \hat{\epsilon}(3)^2 | \phi'^+ \rangle &= \frac{4}{9}, & \langle \phi''^+ | \hat{\epsilon}(3)^2 | \phi''^+ \rangle &= \frac{2}{9}. \end{aligned}$$

Equation (5.4) should read

$$\begin{aligned} \left| \frac{G_A}{G_V} \right| &= \frac{5}{3} \alpha^2 - \beta'^2 \\ &= \frac{5}{3} (1 - \frac{4}{5} \sin^2 \varphi) \\ &\simeq \frac{5}{3} (1 - 0.09) \end{aligned}$$

Two interesting papers are related to our work. A qualitative connection between the sign of the neutron charge radius and the sign of integrals over structure functions in the quark-parton model was established by L. M. Sehgal [Phys. Lett. 53B, 106 (1974)]. On the other hand, P. M. Fishbane, J. S. McCarthy, J. V. Noble, and J. S. Trefil [Phys. Rev. D 11, 1338 (1975)] have recently emphasized the significant SU(6) breaking implied by the relatively large neutron charge radius.