

The p -wave sum rule changes into

$$2f_{\Xi^-} + f_{\Lambda} - \left(\frac{3}{2}\right)^{1/2}(f_{\Sigma^-} - f_{\Sigma^+}) \\ = \theta_+ 6^{1/2} \rho \frac{\Lambda - N}{\Xi - \Lambda} \left(f^{(2)} - \frac{1}{2} \frac{\Xi - \Lambda}{\Lambda - N} f^{(1)} \right),$$

where

$$\frac{1}{2} \frac{\Xi - \Lambda}{\Lambda - N} = 0.577.$$

It is interesting that an $f^{(2)}/f^{(1)}$ ratio of 0.577, which would leave the sum rule intact, is consistent with the present imprecise experimental information about this ratio. In view of the crudeness of the decay data, any ratio between $\frac{1}{2}$ and $\frac{2}{3}$ might be acceptable.

If we combine $f^{(2)}/f^{(1)} = 0.577$ with $f_{\Sigma^-} = 0$, we now find that

$$\Delta f^{(2)}/f^{(2)} = 0.061 \pm 0.094 = 0.16 \text{ or } -0.03,$$

where the ambiguity arises from the unknown algebraic sign of $\rho f_{\Phi Y}/f^{(2)}$. The comparison of f_{Σ^+} with either f_{Λ} or f_{Ξ^-} then gives the unique result

$$\Delta f^{(1)}/f^{(1)} = 0.17 \text{ or } 0.05.$$

The upper sign seems the more plausible one, and we conclude that the K -baryon coupling constants, $f^{(1)}$ and $f^{(2)}$, are smaller than the corresponding π -baryon constants by a common factor ≈ 0.8 . The corrected value of the parameter θ_+ is 2.1×10^{-6} .

†Publication assisted by the U. S. Air Force Office of Scientific Research under Contract No. AF 49(638)-1380.

¹J. Schwinger, Phys. Rev. Letters **13**, 355 (1964). Note the following typographical errors: The symbol in the seventeenth line, left-hand column, of p. 355 is γ_5 , not λ_5 . The reference to footnote 3 should appear on p. 356, in the fourth line before "Calculations." In the top line, right-hand column, of p. 356, read γ^μ instead of Y^μ . On p. 357, left-hand column, the first line of the last paragraph should contain $\langle S_{23} \rangle$, not $\langle S_{33} \rangle$.

²The K -nucleon coupling constants are $f_{KN\Lambda} = 6^{-1/2}(2f_K^{(1)} - f_K^{(2)})$, $f_{KN\Sigma} = 2^{-1/2}f_K^{(2)}$, while $f_{\pi N} = 2^{-1/2}f_\pi^{(1)}$. Thus we anticipate the pseudovector coupling ratios: $f_{KN\Lambda}^2/f_{\pi N}^2 \approx 1/2$, $f_{KN\Sigma}^2/f_{\pi N}^2 \approx \frac{1}{4}$.

ERRATUM

SPLITTING OF SPIN-UNITARY SPIN MULTIPLETS. Mirza A. Baqi Bég and Virendra Singh [Phys. Rev. Letters **13**, 418 (1964)].

The by-line address of the first author was omitted from the printed version. It should be "The Rockefeller Institute, New York, New York."