

Erratum

Radiative np Capture and Meson Exchange Currents, Ronald J. Adler, Benson T. Chertok, and Henry C. Miller [Phys. Rev. C **2**, 69 (1970)]. In the note added in proof, it is stated "Use of 1% D state in the deuteron from recent fit to $N-N$ data by Morgan⁴ would increase our result from 310 to 328 mb." This is incorrect. The modifications to the np capture cross section due to presence of a tensor force in the deuteron were derived by Bethe and Longmire⁵ in their Eq. (59). In the notation of our Eq. (10.11), the correction for the 3D presence in the deuteron with percentage P_D is

$$M_{BL} = M_0 - \frac{1}{4}(r_s + r_t) - \frac{1}{2}(P_D/N_g^2) + C.$$

C is a small correction to the effective ranges

due to intermediate-range effects. The np capture cross section is relatively insensitive to P_D as seen in Table I. Here $\delta\sigma$ is the change due to the pion exchange current.

The conclusion remains that the theoretical np capture cross section is only weakly dependent on the tensor force of the deuteron as noted by others.^{5, 1, 2}

TABLE I. Variation of np cross section with P_D . Cross-section units are given in mb.

P_D	σ_{BL}	$\delta\sigma$	$\sigma_{BL} + \delta\sigma$	σ_{exp}
0.07	302.5	7.0	309.5	
0.049	304.6	7.2	311.8	334.2 ± 0.5
0.01	308.4	7.7	316.1	