Dispersion Theory of the Deuteron Form Factor and Elastic e-d Scattering.

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The relation between F_d and f_d is not as simple as stated in this paper. Equation (38) is true only for $x \ll \alpha/m$, or $q \ll 0.5 F^{-1}$. For $x \gg \alpha/m$ the relation is

$$F_d \approx \frac{f_d}{\sqrt{(1 - s/4m_d^2)}}.$$

and eq. (40) should be replaced by

$$F_1^n = z + 1.02 \eta F_1^n.$$

The corrected values for the last column of Table I are

$$3, 3, 5, 6, 7, 8.5, 10, 11, 12, 13 (\cdot 10^{-3}).$$

We would like to take this opportunity to remark that Gourdin's diagonalization ⁽¹⁾ of (3) as

$$dQ_1 = dq_0 \left\{ F_{ch}^2 - \frac{2}{3} \frac{q^2}{4m_d^2} (F_{2d})^2 \left(1 + 2 \operatorname{tg}^2 \frac{1}{2} \vartheta \right) + \frac{1}{18} \frac{q^4}{m_d^4} F_q^2 \right\}.$$

with

$$F_{ch} = F_{1d} - \frac{q^2}{6m_d^2} F_q, \quad F_q = 2F'_{3d} + F_{1d} - F_{2d}.$$

now enables us to extend (37) to include the quadrupole term.

⁽¹⁾ M. GOURDIN: Orsay preprint Th 21/7, submitted to *Nuovo Cimento*.