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Errata

Erratum: Relativistic description of quark-antiquark bound states. II. Spin-dependent treatment [Phys. Rev. D 42, 1651 (1990)]

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There are two errors in Eq. (6b) for the vector-exchange operator F_V which were pointed out to us by W. Lucha, H. Rupprecht, and F. F. Schöberl. First, the overall sign of the third line of Eq. (6b) should be changed. Second, the last term in the fourth line of Eq. (6b) should be replaced by

$$-\left[\frac{\omega_1+m_1}{\omega_1'+m_1}+\frac{\omega_2+m_2}{\omega_2'+m_2}\right]\mathbf{p}\cdot\boldsymbol{\sigma}_1\mathbf{p}\cdot\boldsymbol{\sigma}_2\rightarrow -\frac{\omega_1+m_1}{\omega_1'+m_1}\mathbf{p}\cdot\boldsymbol{\sigma}_1\mathbf{p}\cdot\boldsymbol{\sigma}_2-\frac{\omega_2+m_2}{\omega_2'+m_2}\mathbf{p}\cdot\boldsymbol{\sigma}_1\mathbf{p}\cdot\boldsymbol{\sigma}_2\ .$$

The errors occurred when Eq. (13a) of Ref. 1 (I) was reduced to the form given [using Eqs. (A13) of I] for inclusion in this paper. The correct results were used in the calculations reported.

The overall sign of F_S in Eq. (6a) would also be negative for the interaction kernel in Eq. (1) [or Eq. (18) of I]. The results given in Eqs. (5) and (6) [or Eqs. (12) and (13) of I] and used throughout the calculations correspond to an interaction

$$\Lambda^{+}(\mathbf{p})\gamma^{0}\int \frac{d^{3}p'}{(2\pi)^{3}} [V_{V}(|\mathbf{p}-\mathbf{p}'|)\gamma_{\mu}\Phi(\mathbf{p}')\gamma^{\mu}-V_{S}|\mathbf{p}-\mathbf{p}'|)\Phi(\mathbf{p}')]\gamma^{0}\Lambda^{-}(-\mathbf{p})$$

with the opposite sign of V_S . This convention incorporates a relative sign which appears in particle-exchange models for the particle-antiparticle interaction, and leads to a nonrelativistic limit $F_S, F_V \rightarrow 1$ in which the total potential is $V_S + V_V$ as noted later. We regret any confusion which our unexplained change of sign may have caused.

We would like to thank Dr. Lucha, Dr. Rupprecht, and Dr. Schöberl for pointing out the errors.

¹A. Gara, B. Durand, L. Durand, and L. J. Nickisch, Phys. Rev. D 40, 843 (1989).

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Erratum: On the $\phi \rightarrow K^0 \overline{K}^0 \gamma$ decay [Phys. Rev. D 42, 3253 (1990)]

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The following are typographical errors which, of course, do not affect our conclusions. Equation (3) should read

$$I(a,b) = \frac{1}{2(a-b)} - \frac{2}{(a-b)^2} \left[f\left[\frac{1}{b}\right] - f\left[\frac{1}{a}\right] \right] + \frac{a}{(a-b)^2} \left[g\left[\frac{1}{b}\right] - g\left[\frac{1}{a}\right] \right],$$
(3)

whereas the unnumbered equation underneath (4b) should read

$$n_{\pm} = \frac{1}{2} [1 \pm (1 - 4x)^{1/2}].$$

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Erratum: Strange quarks in the deuteron [Phys. Rev. D 42, 3010 (1990)]

Steven J. Pollock

In the text, isoscalar form factors were normalized to be the sum of proton and neutron, not the average. However, in the computer program generating the figures, the opposite convention was used, without correcting the normalization