Errata

Erratum: Decays of heavy pseudoscalar mesons [Phys. Rev. D 18, 1569 (1978)]

Thomas G. Rizzo

Equation (2.7) should read

$$\mathcal{H}_{\rm eff}^{\Delta T=\pm 1}=\frac{f_1}{2}\left(\mathcal{H}_{\rm NL}^{\Delta T=\pm 1}+\text{Fierz}\right)+\frac{f_2}{2}\left(\mathcal{H}_{\rm NL}^{\Delta T=\pm 1}-\text{Fierz}\right). \tag{2.7}$$

Equation (2.8) should read

$$\mathcal{H}_{\rm eff}^{\Delta B=\pm 1}=\frac{f_1}{2}\left(\mathcal{H}_{\rm NL}^{\Delta B=\pm 1}+\text{Fierz}\right)+\frac{f_2}{2}\left(\mathcal{H}_{\rm NL}^{\Delta B=\pm 1}-\text{Fierz}\right). \tag{2.8}$$

Equation (A10) should read

$$\mathcal{H}_{\rm eff}=\frac{G_F}{\sqrt{2}}\frac{1}{2}\left(f_1x_1+f_2x_2\right). \tag{A10}$$

Erratum: Hadronic deformation energy. II. Two-nucleon interaction [Phys. Rev. D 17, 323 (1978)]

Carleton DeTar

The contribution to the gluon interaction energy corresponding to the diagram of Fig. 1(e) was computed incorrectly. The correct contribution is more attractive in the intermediate range. The minimum in Fig. 3 and Fig. 10 is lowered by about 130 MeV. A revised version of Table II is given below. Although the quantitative results in the intermediate range are changed, the qualitative results and conclusions are not affected.

TABLE II (rev.). Energy contributions, baryonic quadrupole moment Q, and mixing parameter μ at various values of the constrained separation δ for the six-quark state $I=0$, $S=1$, $|m_S|=1$. All energies are in MeV. $E_{\rm quark}$ is the kinetic energy of the quarks, $E_{\rm cde}, E_{\rm f}, E_{\rm g}, E_{\rm h}$, the contributions of the graphs of the same label in Fig. 1, $E_{\rm gluon}$, the total contribution of gluon exchange, and E_0, the zero-point energy. The last row gives the corresponding parameters for two nucleons.

δ (fm)	Q (fm^2)	μ	$E_{\rm quark}$	$E_{\rm cde}$	$E_{\rm g}$	$E_{\rm f}$	$E_{\rm h}$	$E_{\rm gluon}$	BV	E_0	$E_{\rm tot}$
0.00	0.00	0.000	1853	39	0	0	−5	35	537	−278	2147
0.07	0.00	0.007	1863	39	−15	0	−5	20	529	−279	2133
0.14	0.01	0.024	1904	39	−53	−2	−5	−22	498	−285	2095
0.21	0.03	0.053	1975	33	−116	−12	−5	−99	453	−294	2034
0.27	0.08	0.097	2103	17	−211	−39	−5	−239	392	−308	1947
0.37	0.20	0.183	2337	−36	−366	−118	−5	−525	322	−330	1804
0.45	0.31	0.254	2442	−78	−441	−180	−5	−704	310	−334	1714
0.57	0.49	0.378	2505	−130	−500	−253	−4	−886	329	−327	1620
0.66	0.91	0.464	2529	−147	−544	−306	35	−962	341	−330	1579
0.75	1.37	0.518	2491	−149	−565	−339	80	−972	370	−327	1561
0.86	1.97	0.628	2451	−151	−588	−374	135	−978	414	−322	1565
0.96	2.65	0.690	2365	−143	−592	−390	188	−937	475	−313	1590
1.13	4.02	0.760	2299	−130	−637	−445	357	−856	535	−321	1657
1.28	5.47	0.808	2251	−116	−685	−490	524	−768	586	−332	1737
1.40	6.87	0.838	2227	−104	−748	−519	670	−701	618	−348	1796
1.51	8.10	0.853	2233	−93	−819	−537	811	−638	624	−368	1852
1.58	8.99	0.861	2277	−87	−912	−544	942	−601	597	−393	1880
∞		1.000	2448	−312		0		−312	466	−734	1868

The following typographical errors should be noted:
The last line of Eq. (2.12) should read

$$+[(W_{MX_1}-W_{EX_1})C_{X_1 0}+(W_{MX_2}-W_{EX_2})C_{X_2 0}+(W_{EX}-W_{MX})C_{X0}]+E_{self}+E_0.$$

The right-hand side of Eq. (A7b) should read 4×16.