Answer to "Comments on 'Duality and Nonleptonic Hyperon Decay'"

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(Received 10 June 1970)

A recent result on duality in nonleptonic hyperon decay is clarified.

THE point at issue[1] is to what extent small errors in estimates of pole terms affect S- and P-wave nonleptonic hyperon decays. One does not need current algebra or partial conservation of axial-vector current to compare the processes $KB \to \pi B$ and $\kappa B \to \pi B$, which are the respective hadronic analogs of these processes. In the former, the pole terms *do* play a much smaller role than in the latter, and one can check the magnitude of such pole terms in the former by looking at a host of observed amplitudes. Our claim was that duality is much more likely to work well when local fluctuations are a small part of the total amplitude. It is *not* that pole terms can be neglected completely in S-wave decays.

The mass differences for $\frac{1}{2}^+$ Born terms arise in our work *without* assuming derivative couplings. We know of no other accepted form than derivative couplings for the $\frac{3}{2}^+$ Born terms.

* Work supported in part by the U. S. Air Force under Grant No. EOOAR-68-0010 through the European Office of Aerospace Research.

† Work supported in part by the U. S. Atomic Energy Commission under Contract No. AT(11-1)-1764.

[1] See S. Pakvasa, preceding paper, Phys. Rev. D 2, 1353 (1970).

Errata

Production of Single W Mesons in Electron-Positron Colliding Beams and in Electron or Muon Scattering Experiments, F. A. BERENDS AND GEOFFREY B. WEST [Phys. Rev. D **1**, 122 (1970)]. (1) Equation (20): The factor $G_W\alpha/p_1m$ should read $(G_W\alpha/p_1m)^2$; B should read $-B$ and C should be replaced by

$$C=M^2(S-m^2)^2/E^2.$$

(2) In the Appendix the first term in β_2 should read

$$(2/a_1)K^2(m^2-M_W{}^2).$$

We would like to thank Dr. A. Zepeda for bringing these misprints to our attention.

Finite-Energy Sum Rules and the Process $0^-+0^- \to 0^-+0^-$, CHRISTOPH SCHMID AND JOEL YELLIN [Phys. Rev. **182**, 1449 (1969)]. There are three misprints in Sec. III which should be corrected as follows:

Equation (3.6) should read

$$D_{abs}D_{cds}+D_{ads}D_{bcs}-\lambda_1 D_{cas}D_{bds} +\xi_1(F_{abs}F_{cds}-F_{ads}F_{bcs})=0.$$

Equation (3.10) should read

$$\lambda_1=2.$$

In Ref. 17 read "(d)" for "(c)".