

Physics (Long Is. City, N. Y.) 1, 63 (1964).

<sup>2</sup>S. L. Adler, Phys. Rev. Lett. 14, 1051 (1965); W. I. Weisberger, Phys. Rev. Lett. 14, 1047 (1965).

<sup>3</sup>For a discussion, see S. L. Adler and R. F. Dashen, *Current Algebras* (Benjamin, New York, 1968).

<sup>4</sup>For a review, H. Harari, in *Spectroscopic and Group Theoretical Methods in Physics* (North-Holland, Amsterdam, 1968), p. 363, and reference to previous work therein.

<sup>5</sup>Suggested by R. F. Dashen and M. Gell-Mann [Phys. Rev. Lett. 17, 340 (1966)] in connection with the local algebra. F. Buccella *et al.* [Nuovo Cimento 69A, 133 (1970), and 9A, 120 (1972)] suggest a phenomenological scheme for charges.

<sup>6</sup>The extension to  $SU(3) \otimes SU(3)$  is straightforward. See Ref. 4.

<sup>7</sup>H. J. Melosh, unpublished. We thank M. Gell-Mann and H. J. Melosh for several informative discussions.

<sup>8</sup> $V^{-1}Q^{\dagger}V = Q^{\dagger}$  because isospin is conserved.

<sup>9</sup>P. Söding *et al.*, Phys. Lett. 39B, 1 (1972).

<sup>10</sup>We use  $f_{\pi} = 135$  MeV from the  $\pi$  decay amplitude.

<sup>11</sup>Intrinsic to the use of PCAC is an  $\sim 10\%$  error. All widths are calculated in narrow-resonance approximation, assuming PCAC for the Feynman amplitude and using phase space for massive  $\pi$ 's.

<sup>12</sup>We define  $g_{AB} = \langle A | Q_i | B \rangle$ , where  $A$  and  $B$  are physical states.  $g^*$  is defined in Ref. 4.

<sup>13</sup>From the model of M. Gell-Mann *et al.* [Phys. Rev. Lett. 8, 261 (1962)] and experimental widths, we obtain  $g_{\rho\pi\omega} = (14.4 \pm 1.0)/\text{GeV}$  using  $\gamma_{\rho}^2/4\pi = 0.6$ . Equation (11) gives a value of 15.6/GeV. In addition to the purely ex-

perimental errors, there is an unknown error inherent in the model.

<sup>14</sup>Our results for  $L=1$  to  $L=0$  transitions agree with those of Buccella *et al.*, Ref. 5, but we disagree in general.

<sup>15</sup>See the recent work of R. Ott, thesis, University of California, Berkeley, 1972 (unpublished), and earlier references therein.

<sup>16</sup>See the references and discussion of the  $SU(6)_W$  predictions and their breaking by E. W. Colglazier and J. L. Rosner, Nucl. Phys. B27, 349 (1971).

<sup>17</sup>F. J. Gilman and H. Harari, Phys. Rev. Lett. 18, 1150 (1967), and Phys. Rev. 165, 1803 (1968).

<sup>18</sup>See, for example, R. Klanner, in *Experimental Meson Spectroscopy—1972*, AIP Conference Proceedings No. 8, edited by A. H. Rosenfeld and K. W. Lai (American Institute of Physics, New York, 1972), p. 164.

<sup>19</sup>This modifies slightly the analysis contained in Ref. 17, where  $\delta \neq \eta\pi$ .

<sup>20</sup>H. H. Bingham *et al.*, Phys. Lett. 41B, 635 (1972), and references to other experiments therein.

<sup>21</sup>Large mixing is needed in  $SU(6)_W$ . See D. Faiman and D. E. Plane, CERN Report No. CERN-Th-1549, 1972 (unpublished).

<sup>22</sup>See also the recent analysis of R. Ayed *et al.*, unpublished.

<sup>23</sup>A particular choice of parameters in broken  $SU(6)_W$  gives results which agree with ours. See Ref. 16 and W. P. Petersen and J. L. Rosner, Phys. Rev. D 6, 820 (1972). We thank J. L. Rosner for discussions and pointing out an error in an earlier manuscript.

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## ERRATUM

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MASS FORMULA FOR KERR BLACK HOLES.  
Larry Smarr [Phys. Rev. Lett. 30, 71 (1973)].

Dr. Robert V. Penney has pointed out an algebraic error in the transformation of parameters from  $A, L, Q$  to  $\eta, \beta, \epsilon$  (page 72) in the quantities  $E_r$  and  $E_{em}$ . These two lines should be changed to

$$E_r = \frac{1}{2}\eta[(1 - \beta_0^2)^{-1/2} - 1],$$

$$E_{em} = \frac{1}{2}\eta[(1 + \epsilon^2)(1 - \beta^2)^{-1/2} - (1 - \beta_0^2)^{-1/2}],$$

where

$$\beta_0 = \beta(A, L, Q=0).$$

Further, the line giving the second-order expansion of  $E_{em}$  should read

$$E_{em} \cong \frac{1}{2}Q^2\eta^{-1}.$$

The conclusion of the paper remains unaltered.