Errata

Anomalous magnetic moment of the W -boson and non-standard $Z^0 W^+ W^-$ coupling in polarized $e^+ e^-$ collisions

G. Couture and J.N. Ng

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We have noted a mistake in (2.1). This equation should read as follows:

$$\frac{d\Gamma}{dE} = \frac{\alpha \sqrt{E^2 - M_W^2} (1 - E^2/M_W^2)}{144 \pi^2 M_Z^5 \sin^2 \theta (1 - 2E/M_Z)^2} \cdot ((2a+b)^2 (4EM_Z^3 - 4M_Z^2 M_W^2 - 3M_Z^4) + 4a^2 (6EM_Z M_W^2 - 2M_W^2 M_Z^2 - E^2 M_Z^2 - 3M_W^4) + 4a(2a+b)(EM_Z^3 - M_Z^2 M_W^2)) \quad (2.1)$$

where

$$a = \frac{g - \omega}{\cos \theta_w} \quad \text{and} \quad b = g \cos \theta_w.$$

This equation leads to the new Fig. 2. The bounds on ω are now $|\omega| \leq 1800$ from the experimental limit $\Gamma_Z \leq 8.5$ GeV and $|\omega| \leq 1300$ when we subtract the SM Z^0 width. Furthermore, the SM Z^0 width due to $Z^0 \rightarrow W^+ W^- \rightarrow e^- \nu_e$ is 2.5×10^{-8} GeV which leads to

Fig. 2

a partial width due to Z^0 into W^+ or W^- plus $e \nu_e$ or $\mu \nu_\mu$ of 1×10^{-7} GeV. This gives us a branching ratio of 3×10^{-8} .

Inclusive Pomeron-Pomeron interactions at the CERN ISR

Ames-Bologna-CERN-Dortmund-Heidelberg-Warsaw Collaboration

A. Breakstone, R. Campanini, H.B. Crawley, G.M. Dallavalle, M.M. Deninno, K. Doroba, D. Drijard, F. Fabbri, A. Firestone, H.G. Fischer, H. Frehse, W. Geist, G. Giacomelli, R. Gokieli, M. Gorbics, P. Hanke, M. Heiden, W. Herr, D. Isenhower, E.E. Kluge, J.W. Lamsa, T. Lohse, R. Mankel, W.T. Meyer, G. Mornacchi, T. Nakada, M. Panter, A. Putzer, K. Rauschnabel, B. Rensch, F. Rimondi, M. Schmelling, G.P. Siroli, J.D. Skeens, R. Sosnowski, M. Szczekowski, O. Ullaland, D. Wegener, R. Yeung

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Unfortunately, R. Mankel's name was forgotten in the above list of authors. R. Mankel is at the Institute for Physics, Dortmund University, D-4600 Dortmund, Federal Republic of Germany.