

Errata

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

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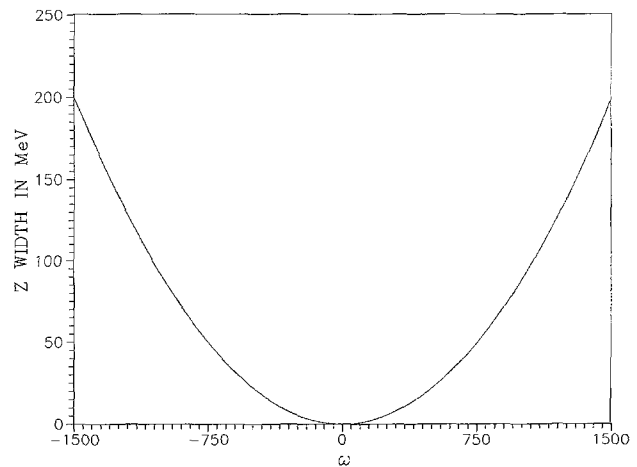
We have noted a mistake in (2.1). This equation should read as follows:

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

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

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