

Erratum: Precise Determination of Electroweak Parameters in Neutrino-Nucleon Scattering [Phys. Rev. Lett. 88, 091802 (2002)]

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An additional significant digit is added to the reported experimental measurements in Eqs. (6)–(8) on pages 091802–3. The results with the inclusion of additional precision are

$$\sin^2\theta_W^{(\text{on-shell})} = 0.22773 \pm 0.00135(\text{stat}) \pm 0.00093(\text{syst}) - 0.00022 \left(\frac{M_{\text{top}}^2 - (175 \text{ GeV})^2}{(50 \text{ GeV})^2} \right) + 0.00032 \ln \left(\frac{M_{\text{Higgs}}}{150 \text{ GeV}} \right), \quad (6)$$

$$\rho_0 = 0.99789 \pm 0.00405, \quad \sin^2\theta_W = 0.22647 \pm 0.00311, \quad (7)$$

$$(g_L^{\text{eff}})^2 = 0.30005 \pm 0.00137, \quad (g_R^{\text{eff}})^2 = 0.03076 \pm 0.00110. \quad (8)$$

The above measurements for $(g_L^{\text{eff}})^2$ and $(g_R^{\text{eff}})^2$ are different from those originally reported due to a mistake related to the assumed reference values for M_{top} and M_{Higgs} .

The small correlation coefficient for the two parameter $(g_L^{\text{eff}})^2 - (g_R^{\text{eff}})^2$ fit is now explicitly stated; it is -0.017 .