Erratum

Horizontal interactions and their symmetries in GUTs

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The following errors were noticed after the article had been published:

Equation (4.4) should read

$$\frac{M_H}{M_x} = \left(\frac{M_w}{M_x} \right)^{\beta_3^I / (\beta_3^I - \beta_3^H)} \exp \left\{ \frac{2\pi(\alpha_3^{-1}(M_x) - \alpha_3^{-1}(M_w))}{\beta_3^I - \beta_3^H} \right\}.$$

Equation (4.7) should read

$$\frac{1}{(4\pi)^3} |\beta_{333}^H| \alpha_3^2(q^2) \leq 10^{-n} \frac{1}{(4\pi)^2} |\beta_{33}^H| \alpha_3(q^2).$$

Equation (5.5) should read

$$\frac{\hat{M}'_x}{\hat{M}_x} = \left(\frac{\hat{M}_x}{\hat{M}_H} \right)^{(\beta_3^H - 3/8 \beta_2^H - 5/8 \beta_1^H) / (\hat{\beta}_3^H - 3/8 \hat{\beta}_2^H - 5/8 \hat{\beta}_1^H) - 1}$$

On p. 611, the second line after formula (4.21) should read:

$SU(5)$ model with g_N generations.

On p. 612 the line after formula (5.6) should read:

where $\alpha_0^{-1}(M_w) = 127.82 \dots$