

**Erratum: Preserving the validity of the two-Higgs-doublet model
up to the Planck scale**

[Phys. Rev. D **92, 033003 (2015)]**

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(Received 12 September 2016; published 26 September 2016)

DOI: [10.1103/PhysRevD.94.059903](https://doi.org/10.1103/PhysRevD.94.059903)

There was a typographical error in Eq. (A28). The corrected equation is as follows:

$$\begin{aligned}
 \mathcal{D}Z_{\bar{a}\bar{b}\bar{c}\bar{d}} = & 4Z_{\bar{a}\bar{b}\bar{e}\bar{f}}Z_{\bar{c}\bar{d}\bar{f}\bar{e}} + 2Z_{\bar{a}\bar{f}\bar{c}\bar{e}}Z_{\bar{f}\bar{b}\bar{e}\bar{d}} + 2Z_{\bar{a}\bar{f}\bar{e}\bar{d}}Z_{\bar{f}\bar{b}\bar{c}\bar{e}} + 2Z_{\bar{a}\bar{b}\bar{e}\bar{f}}Z_{\bar{c}\bar{e}\bar{f}\bar{d}} + 2Z_{\bar{a}\bar{e}\bar{f}\bar{b}}Z_{\bar{c}\bar{d}\bar{e}\bar{f}} \\
 & - (3g^2 + 9g^2)Z_{\bar{a}\bar{b}\bar{c}\bar{d}} + \frac{3}{4}(3g^4 - 2g^2g^2 + g^4)\delta_{\bar{a}\bar{b}}\delta_{\bar{c}\bar{d}} + (3g^2g^2)\delta_{\bar{a}\bar{d}}\delta_{\bar{c}\bar{b}} - 4N_c\text{Tr}[\eta_{\bar{a}}^Q\eta_{\bar{b}}^{Q\dagger}\eta_{\bar{c}}^Q\eta_{\bar{d}}^{Q\dagger}] \\
 & + 4(\text{Tr}[\eta_{\bar{e}}^{Q\dagger}\eta_{\bar{a}}^Q]Z_{\bar{e}\bar{b}\bar{c}\bar{d}} + \text{Tr}[\eta_{\bar{b}}^{Q\dagger}\eta_{\bar{e}}^Q]Z_{\bar{a}\bar{e}\bar{c}\bar{d}} + \text{Tr}[\eta_{\bar{c}}^{Q\dagger}\eta_{\bar{e}}^Q]Z_{\bar{a}\bar{b}\bar{e}\bar{d}} + \text{Tr}[\eta_{\bar{d}}^{Q\dagger}\eta_{\bar{e}}^Q]Z_{\bar{a}\bar{b}\bar{c}\bar{e}}).
 \end{aligned} \tag{A28}$$