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Erratum: Threshold and flavor effects in the renormalization group equations of the MSSM: Dimensionless couplings [Phys. Rev. D 77, 055007 (2008)]

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The RGEs listed in the Appendix contained several errors. Table I summarizes these errors. The entries as published are given in the left-hand column and the corrected entries are in the right-hand column, with differences highlighted within the boxes. The following errors were not present in the code used to derive our results: the second row of the new entries for Eqs. (A16) and (A19) and the entry for Eq. (A18).

There is no significant change in the numerical results and figures we presented, with the results changing by less than 0.05% in all cases.

A revised version of the paper is available on the arXiv.

TABLE I. Corrections to the RGEs in the Appendix. The published terms are listed in the left-hand column, with corrected entries on the right. The boxes are drawn to highlight the changes.

	Old entry	New entry
(A15)	$+\frac{1}{2}\theta_{\tilde{h}}\{[s^2\theta_h + c^2\theta_H]\lvert\tilde{g}'^{h_u}\rvert^2$ $+[c^2\theta_h + s^2\theta_H]\lvert\tilde{g}'^{h_d}\rvert^2\}s\tilde{g}'^{h_u}$	$+\frac{1}{2}\theta_{\tilde{h}}\boxed{\theta_{\tilde{B}}}\left\{\left[s^2\theta_h + c^2\theta_H\right]\left\lvert\tilde{g}'^{h_u}\right\rvert^2 + \left[c^2\theta_h + s^2\theta_H\right]\left\lvert\tilde{g}'^{h_d}\right\rvert^2\right\} s\tilde{g}'^{h_u}$
	–	$\boxed{+\theta_{\tilde{B}}\theta_{\tilde{h}} c^2\left(\theta_h - \theta_H\right)\left\lvert\tilde{g}'^{h_d}\right\rvert^2 s\tilde{g}'^{h_u} + 3\theta_{\tilde{W}}\theta_{\tilde{h}} c^2\left(\theta_h - \theta_H\right)\tilde{g}'^{h_d}(\tilde{g}^{h_d})^* s\tilde{g}^{h_u}}$
(A16)	$+\frac{1}{2}\theta_{\tilde{h}}\{[s^2\theta_h + c^2\theta_H]\lvert\tilde{g}'^{h_u}\rvert^2$ $+[c^2\theta_h + s^2\theta_H]\lvert\tilde{g}'^{h_d}\rvert^2\}c\tilde{g}'^{h_d}$ $-4[\theta_{\tilde{d}_k} c(\tilde{\mathbf{f}}_d^{d_R})^T_{km}(\mathbf{f}_d)^*_{ml}(\tilde{\mathbf{g}}'^{d_R})_{lk}$ $+\theta_{\tilde{e}_k} c(\tilde{\mathbf{f}}_e^{e_R})_{km}(\mathbf{f}_e)^\dagger_{ml}(\tilde{\mathbf{g}}'^{e_R})_{lk}]$	$+\frac{1}{2}\theta_{\tilde{h}}\boxed{\theta_{\tilde{B}}}\left\{\left[s^2\theta_h + c^2\theta_H\right]\left\lvert\tilde{g}'^{h_u}\right\rvert^2 + \left[c^2\theta_h + s^2\theta_H\right]\left\lvert\tilde{g}'^{h_d}\right\rvert^2\right\} c\tilde{g}'^{h_d}$ $-4\left[\theta_{\tilde{d}_k} c(\tilde{\mathbf{f}}_d^{d_R})^T_{km}(\mathbf{f}_d)^*_{ml}(\tilde{\mathbf{g}}'^{d_R})_{lk} + \theta_{\tilde{e}_k} c\boxed{(\tilde{\mathbf{f}}_e^{e_R})^T_{km}(\mathbf{f}_e)^*_{ml}}(\tilde{\mathbf{g}}'^{e_R})_{lk}\right]$
	–	$\boxed{+\theta_{\tilde{B}}\theta_{\tilde{h}} s^2\left(\theta_h - \theta_H\right)\left\lvert\tilde{g}'^{h_u}\right\rvert^2 c\tilde{g}'^{h_d} + 3\theta_{\tilde{W}}\theta_{\tilde{h}} s^2\left(\theta_h - \theta_H\right)\tilde{g}'^{h_u}(\tilde{g}^{h_u})^* c\tilde{g}^{h_d}}$
(A18)	$-(\tilde{\mathbf{g}}^Q)_{ij}[\frac{3}{4}g'^2 + \frac{33}{4}g_2^2]$	$-\boxed{(\tilde{\mathbf{g}}^L)_{ij}}\left[\frac{3}{4}g'^2 + \frac{33}{4}g_2^2\right]$
(A19)	$+\frac{1}{2}\theta_{\tilde{h}}\{[s^2\theta_h + c^2\theta_H]\lvert\tilde{g}^{h_u}\rvert^2$ $+[c^2\theta_h + s^2\theta_H]\lvert\tilde{g}^{h_d}\rvert^2\}s\tilde{g}^{h_u}$ $+\frac{1}{2}\theta_{\tilde{h}}[3\theta_{\tilde{u}_k} s\tilde{g}^{h_u}(\tilde{\mathbf{f}}_u^{u_R})^*_{lk}(\tilde{\mathbf{f}}_u^{u_R})_{kl}$ $+3\theta_{\tilde{Q}_l} s\tilde{g}^{h_u}(\tilde{\mathbf{f}}_u^{Q})^*_{lk}(\tilde{\mathbf{f}}_u^{Q})^T_{kl}]$	$+\frac{1}{2}\theta_{\tilde{h}}\boxed{\theta_{\tilde{W}}}\left\{\left[s^2\theta_h + c^2\theta_H\right]\left\lvert\tilde{g}^{h_u}\right\rvert^2 + \left[c^2\theta_h + s^2\theta_H\right]\left\lvert\tilde{g}^{h_d}\right\rvert^2\right\} s\tilde{g}^{h_u}$ $+\frac{1}{2}\theta_{\tilde{h}}\left[3\theta_{\tilde{u}_k} s\tilde{g}^{h_u}(\tilde{\mathbf{f}}_u^{u_R})^*_{lk}\boxed{(\tilde{\mathbf{f}}_u^{u_R})^T_{kl}} + 3\theta_{\tilde{Q}_l} s\tilde{g}^{h_u}(\tilde{\mathbf{f}}_u^{Q})^*_{lk}(\tilde{\mathbf{f}}_u^{Q})^T_{kl}\right]$
	–	$\boxed{+\theta_{\tilde{B}}\theta_{\tilde{h}} c^2\left(\theta_h - \theta_H\right)\tilde{g}^{h_d}(\tilde{g}'^{h_d})^* s\tilde{g}'^{h_u} - \theta_{\tilde{W}}\theta_{\tilde{h}} c^2\left(\theta_h - \theta_H\right)\left\lvert\tilde{g}^{h_d}\right\rvert^2 s\tilde{g}^{h_u}}$
(A20)	$+\frac{1}{2}\theta_{\tilde{h}}\{[s^2\theta_h + c^2\theta_H]\lvert\tilde{g}^{h_u}\rvert^2$ $+[c^2\theta_h + s^2\theta_H]\lvert\tilde{g}^{h_d}\rvert^2\}c\tilde{g}^{h_d}$	$+\frac{1}{2}\theta_{\tilde{h}}\boxed{\theta_{\tilde{W}}}\left\{\left[s^2\theta_h + c^2\theta_H\right]\left\lvert\tilde{g}^{h_u}\right\rvert^2 + \left[c^2\theta_h + s^2\theta_H\right]\left\lvert\tilde{g}^{h_d}\right\rvert^2\right\} c\tilde{g}^{h_d}$
	–	$\boxed{+\theta_{\tilde{B}}\theta_{\tilde{h}} s^2\left(\theta_h - \theta_H\right)\tilde{g}^{h_u}(\tilde{g}'^{h_u})^* c\tilde{g}'^{h_d} - \theta_{\tilde{W}}\theta_{\tilde{h}} s^2\left(\theta_h - \theta_H\right)\left\lvert\tilde{g}^{h_u}\right\rvert^2 c\tilde{g}^{h_d}}$

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