

Erratum: Model-independent bounds on a light Higgs

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ERRATUM TO: [JHEP04\(2012\)127](#)

The operator $\text{Tr}[(D_\mu \Sigma)^\dagger (D_\nu \Sigma)] \partial^\mu \partial^\nu F(h)$ is not linearly independent and can be removed by use of equations of motion and integration by parts. On the other hand, the operator $\text{Tr}[(D_\mu \Sigma)^\dagger (D_\nu \Sigma)] \partial^\mu F(h) \partial^\nu F(h)$ is linearly independent and must be added to the list of bosonic operators in \mathcal{L}^4 . Equation (2.7) should be thus replaced by:

$$\begin{aligned}
 O_1 &= \text{Tr}[(D_\mu \Sigma)^\dagger (D^\mu \Sigma)] (\partial_\nu F_1(h))^2 \\
 O_2 &= \text{Tr}[(D_\mu \Sigma)^\dagger (D_\nu \Sigma)] \partial^\mu F_2(h) \partial^\nu F_{2'}(h).
 \end{aligned}
 \tag{1}$$

Acknowledgments

We thank Luca Merlo for drawing our attention on the relevance of the operator O_2 of eq. (1).