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Erratum: The minimal flavour violating axion

F. Arias-Aragón and L. Merlo

*Departamento de Física Teórica and Instituto de Física Teórica, IFT-UAM/CSIC,
Universidad Autónoma de Madrid,
Cantoblanco, 28049, Madrid, Spain*

E-mail: fernando.arias@uam.es, luca.merlo@uam.es

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In this erratum we clarify that in contrast to the statements made in the article the bounds on the axion coupling to two W 's and to two Z 's obtained from mono- W and mono- Z searches at the LHC are the following:

$$|g_{aWW}| \lesssim 1.6 \times 10^{-3} \text{ GeV}^{-1}, \quad |g_{aZZ}| \lesssim 8 \times 10^{-4} \text{ GeV}^{-1}. \quad (1)$$

These values substitute the corresponding ones in eq. (4.5) of the published version of the paper. The corresponding limits in terms of axion decay constant are therefore weaker than the ones previously reported: all the bounds in eqs. (4.6) and (4.7) are of a few GeV.

This change has interesting phenomenological effects as the scale f_a can be as low as 1 TeV: contrary to what previously stated, this heavy MFV axion can then be tested both at colliders and at flavour facilities. Moreover, this scenario does not present any fine-tuning in the scalar potential.

Finally, a corrected version of the article, including new bounds from $\Upsilon \rightarrow a\gamma$ and redefining the scale f_a as in the literature, is available on the [arXiv:1709.07039](#).

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