Erratum: Implications of the first detection of coherent elastic neutrino-nucleus scattering (CEvNS) with liquid Argon

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In this erratum we revise the left panel of figure 7 in the published version of ref. [1]. The contour area corresponding to the calculation of the CsI data was evaluated with the wrong sign and has led to an unexpected stripe. Here, in figure 1 we provide the correct result which is in agreement with ref. [2]. We thank Carlo Giunti for pointing out this error.

Figure 1. Excluded region at 90% C.L in the parameter space $(M_{Z'}, g_{B-L}^2)$ for the vector mediator scenario (left) and (M_ϕ, g_ϕ^2) for the scalar mediator scenario (right), from the analysis of the recent LAr data. In both cases, a comparison is given with the CsI data.

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References

- [1] O.G. Miranda, D.K. Papoulias, G. Sanchez Garcia, O. Sanders, M. Tórtola and J.W.F. Valle, *Implications of the first detection of coherent elastic neutrino-nucleus scattering (CEvNS) with Liquid Argon*, *JHEP* **05** (2020) 130 [[arXiv:2003.12050](https://arxiv.org/abs/2003.12050)] [[INSPIRE](#)].
- [2] M. Cadeddu et al., *Constraints on light vector mediators through coherent elastic neutrino nucleus scattering data from COHERENT*, [arXiv:2008.05022](https://arxiv.org/abs/2008.05022) [[INSPIRE](#)].