

Erratum: Search for Light Dark Matter in XENON10 Data [Phys. Rev. Lett. 107, 051301 (2011)]

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In our Letter, the 90% C.L. exclusion limits presented in Fig. 3 were incorrect, due to a software bug. The corrected limits are shown in Fig. 4, keeping all other assumptions and parameters as described in the original work. This leads to a decrease in sensitivity of approximately $\{\times 2, \times 4, \times 5\}$ at dark matter particle masses of $\{5, 10, 20\}$ GeV. The corrected limit calculation is in good agreement with the work of Ref. [1] if we make the same astrophysical assumptions. The original conclusions of the Letter are not affected by this correction.

We also point out that the parameterization of the detector energy resolution contained a typo: it should read $\mathcal{R}(E_{\text{nr}}) = (\mathcal{Q}_y E_{\text{nr}})^{-1/2}$.

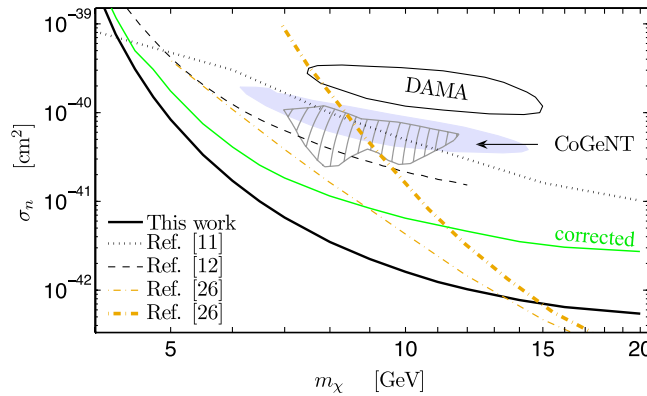


FIG. 4 (color online). Previously published (solid black curve, labeled “This work”) and corrected (solid green curve, labeled “corrected”) 90% C.L. exclusion limits obtained from our data. The original figure is otherwise unmodified.

[1] M. T. Frandsen, F. Kahlhoefer, C. McCabe, S. Sarkar, and K. Schmidt-Hoberg, [arXiv:1304.6066](https://arxiv.org/abs/1304.6066).

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