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One correction is noted for the paper, which does not affect the results reported. The right panel of figure 9 is corrected as it contained the “internal” label, giving the misleading impression on the credibility of the figure.

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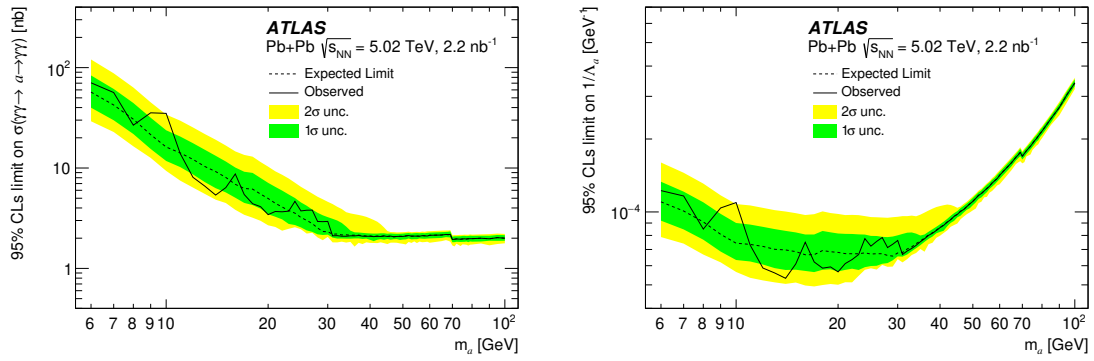


Figure 9. The 95% CL upper limit on the ALP cross section $\sigma_{\gamma\gamma\rightarrow a\rightarrow\gamma\gamma}$ (left) and ALP coupling $1/\Lambda_a$ (right) for the $\gamma\gamma \rightarrow a \rightarrow \gamma\gamma$ process as a function of ALP mass m_a . The observed upper limit is shown as a solid black line and the expected upper limit is shown by the dashed black line with its ± 1 and ± 2 standard deviation bands. The discontinuity at $m_a = 70$ GeV is caused by the increase of the mass-bin width which brings an increase in signal acceptance.

The ATLAS collaboration

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