

**Erratum: Search for low-mass resonances decaying into two jets
and produced in association with a photon or a jet at $\sqrt{s} = 13$ TeV
with the ATLAS detector
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One correction is noted for the paper, which fixes a bug in the computation of the event selection acceptance for the γjj and γbb channels. Such acceptance values are used in the plotting of the theory line of Figs. 5(a) and 5(b) and in the conversion of the Z' template cross section limits to the g_q limits, which affects Fig. 7. The combination of the limits from the γjj and jjj channels is rerun and the updated combined results are given in Fig. 8. Compared to results given in Sec. 7, we now find that the updated limits on g_q from the γjj channel are no longer competitive with the g_q limits from the jjj channel, and hence the combination of the two channels does not bring any significant improvement with respect to the jjj channel alone. The paragraph in Sec. 7 saying that “The combination improves the limits on g_q ... down to 0.05–0.07,” should now state that “The combination does not significantly improve the limits on g_q relative to the jjj channel. This is

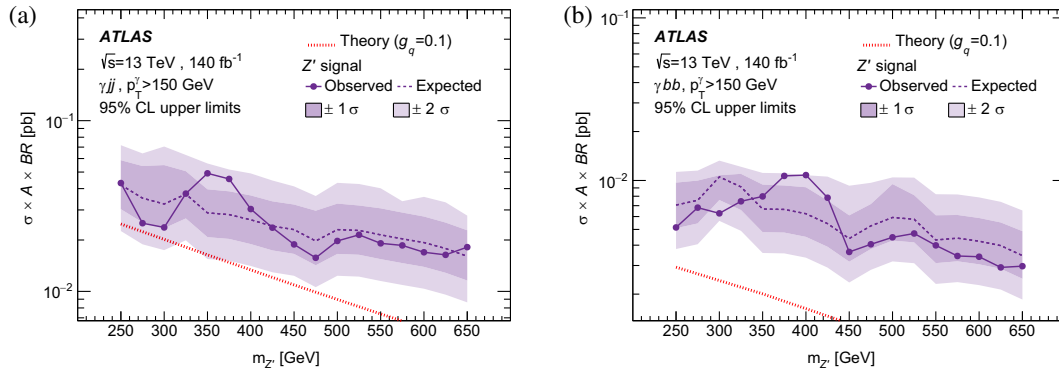


FIG. 5. Expected and observed 95% CL upper limits on the product of the cross section, acceptance and branching ratio ($\sigma \times A \times BR$) as a function of the Z' mass for the (a) γjj and (b) γbb channels with the background and signal contributions modeled by a 5-parameter fit function and templates from the signal samples, respectively. Observed limits are indicated with markers and a solid line, and expected limits are indicated with a dashed line. The shaded bands around the expected limit indicates the (darker band) 1σ and (lighter band) 2σ uncertainty range. The dotted line represents the expected $\sigma \times A \times BR$ assuming $g_q = 0.1$, as obtained from the MADGRAPH signal samples.

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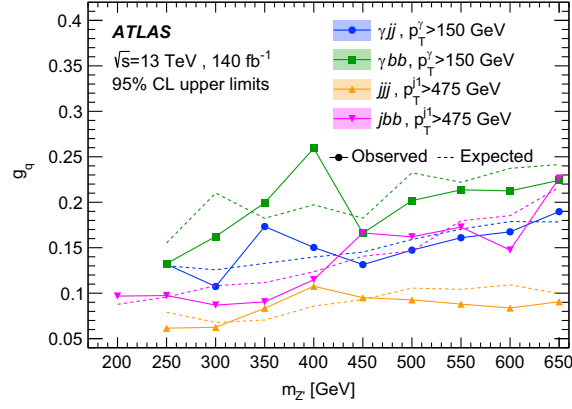


FIG. 7. Expected and observed 95% CL upper limits on the g_q coupling as a function of the Z' mass in the γjj , γbb , jjj , and jbb channels with the background and signal contributions modeled by a 5-parameter fit function and templates from the signal samples, respectively. Observed limits are indicated with markers and a solid line, and expected limits are indicated with a dashed line.

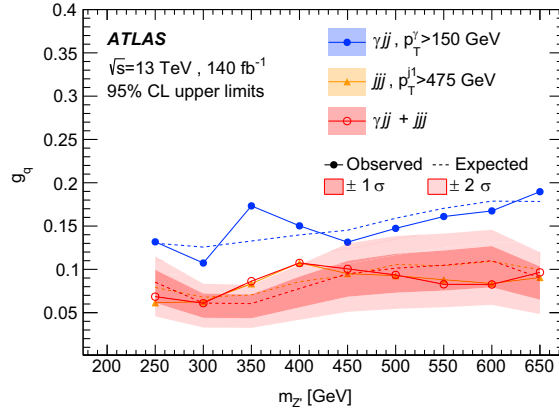


FIG. 8. Expected and observed 95% CL upper limits on the g_q coupling as a function of the Z' mass in the γjj channel, the jjj channel and the combination of the two. The background and signal contributions are modeled by a 5-parameter fit function and templates from the signal samples, respectively. Observed limits are indicated with markers and a solid line, and expected limits are indicated with a dashed line. The shaded bands indicate the (darker band) 1σ and (lighter band) 2σ uncertainty range on the combined result.

expected, given that the γjj channel has a reduced sensitivity to the presence of signal. Both the expected and observed limits exclude coupling values down to 0.06–0.1.” Similarly, the last sentences in Sec. 8, starting from “... with the most stringent limits...” should now read “... with the most stringent limits on g_q set by the jjj channel. A further combination of the jjj and γjj channels is performed, which does not bring a significant improvement with respect to the jjj channel alone, and the limits on g_q are set down to 0.06–0.1.”