

UC Irvine

UC Irvine Previously Published Works

Title

Erratum: Measurement of $W+W^-$ production in pp collisions at $\sqrt{s}=7$ TeV with the ATLAS detector and limits on anomalous WWZ and WW γ couplings [Phys. Rev. D 87, 112001 (2013)]

Permalink

<https://escholarship.org/uc/item/46b0j2h3>

Journal

Physical Review D, 88(7)

ISSN

2470-0010

Author

Aad, G

Publication Date

2013-10-01

DOI

10.1103/physrevd.88.079906

Copyright Information

This work is made available under the terms of a Creative Commons Attribution License, available at <https://creativecommons.org/licenses/by/4.0/>

Peer reviewed

Erratum: Measurement of W^+W^- production in pp collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector and limits on anomalous WWZ and $WW\gamma$ couplings
[Phys. Rev. D **87, 112001 (2013)]**

G. Aad *et al.**

(ATLAS Collaboration)

(Received 18 October 2013; published 30 October 2013)

DOI: [10.1103/PhysRevD.88.079906](https://doi.org/10.1103/PhysRevD.88.079906)

PACS numbers: 12.15.-y, 99.10.Cd

Three corrections are noted for the paper. These do not affect the results reported in the paper. They concern numbers in the text.

The first correction is to the introduction of the paper, where it is stated that the SM WW production cross section would be increased by 3% due to SM Higgs production. The quoted 3% refers to the increase in event yield from SM Higgs production after all selection criteria have been applied, as detailed on page 112001-9 of the paper. The sentences should read: “The contribution from SM Higgs production [1] with the Higgs boson decaying into a pair of W bosons ($H \rightarrow WW$) depends on the mass of the Higgs boson (m_H). For $m_H = 126$ GeV, the SM WW production cross section would be increased by 8%.”

The second correction applies to the expected event yields from SM Higgs production as given on page 112001-9. The original text states that 16 events are expected in the $e\mu$ channel due to a SM Higgs contribution for $m_H = 126$ GeV. The sentence should read: “The WW processes mediated by a SM Higgs boson with a mass of 126 GeV would contribute an additional 3, 7 and 17 events in the ee , $\mu\mu$ and $e\mu$ channels, respectively.”

The final correction relates to the jet veto efficiency as given in the text on page 112001-6. The numbers in Tables II, III, and IV are correct, but the sentence “ P_{pred}^{WW} is estimated to be 0.624 ± 0.012 , 0.625 ± 0.010 and 0.633 ± 0.010 for the ee , $\mu\mu$ and $e\mu$ channels, respectively.” should be replaced with “ P_{pred}^{WW} is estimated to be 0.624 ± 0.023 , 0.625 ± 0.023 and 0.633 ± 0.023 for the ee , $\mu\mu$ and $e\mu$ channels, respectively.”

[1] ATLAS Collaboration, *Phys. Lett. B* **716**, 1 (2012); CMS Collaboration, *Phys. Lett. B* **716**, 30 (2012).

*Full author list given at the end of the article.