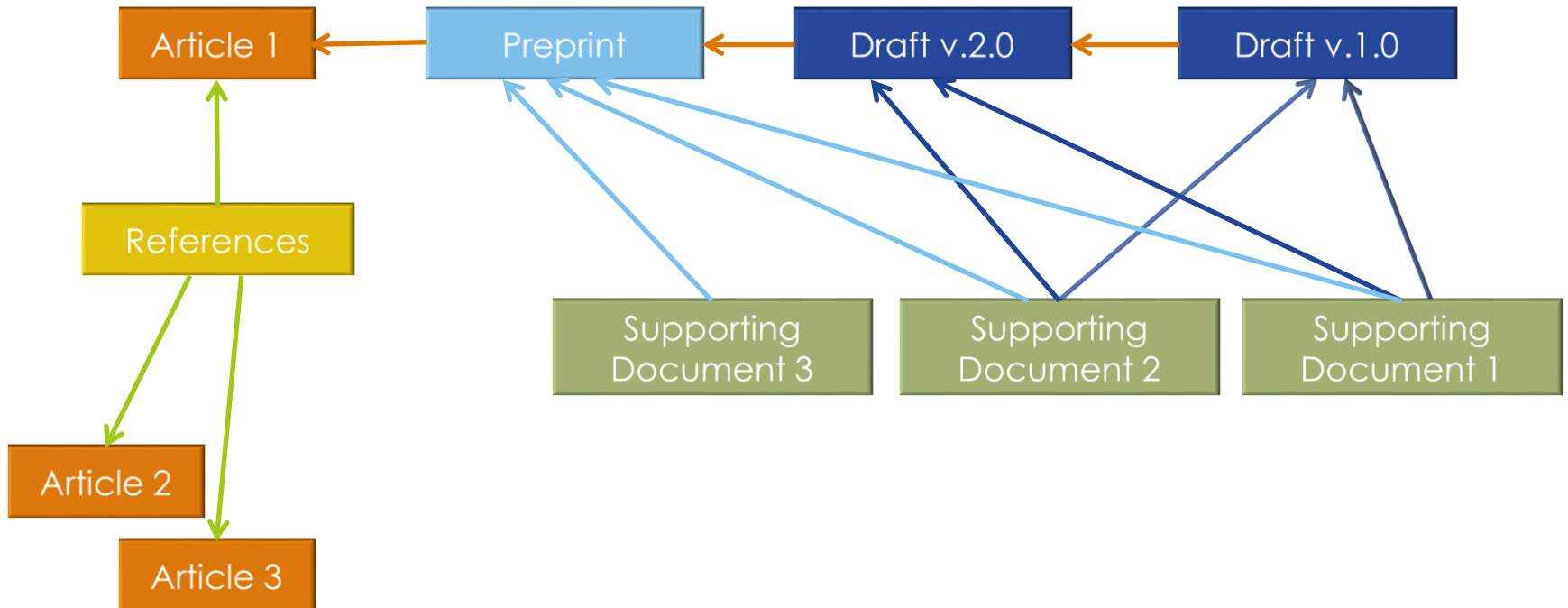


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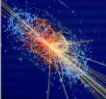
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- 2. Search for an invisibly decaying Higgs boson or dark matter candidates produced in association with a  $Z$  boson in  $pp$  collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**  
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CERN-EP-2017-166. - 2017.  
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- 3. Evidence for the  $H \rightarrow b\bar{b}$  decay with the ATLAS detector / ATLAS Collaboration**  
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CERN-EP-2017-175 ; arXiv:1708.03299. - 2017. - 68 p.  
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- 4. Measurement of inclusive and differential cross sections in the  $H \rightarrow ZZ^* \rightarrow 4\ell$  decay channel in  $pp$  collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector / ATLAS Collaboration**  
Inclusive and differential fiducial cross sections of Higgs boson production in proton-proton collisions are measured in the  $H \rightarrow ZZ^* \rightarrow 4\ell$  decay channel. [...]  
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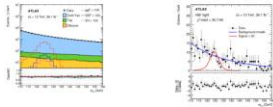
# Article in CDS

Article 1

Информация | Обсуждение (0) | Файлы

## Article

Report number	CERN-EP-2017-078 ; arXiv:1705.04582
Title	Search for the dimuon decay of the Higgs boson in $pp$ collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector
Author(s)	ATLAS Collaboration <i>Показать всех 2873 авторов</i>
Corporate Author(s)	ATLAS Collaboration
Imprint	11 May 2017. - 20 p.
Note	28 pages in total, author list starting page 12, 2 figures, 1 table, published in <Phys. Rev. Lett.>. All figures including auxiliary figures are available at < <a href="http://atlas.web.cern.ch/Atlas/GROUPS/PHYSICS/PAPERS/HIGG-2016-10/">http://atlas.web.cern.ch/Atlas/GROUPS/PHYSICS/PAPERS/HIGG-2016-10/</a> >
In:	<i>Phys. Rev. Lett.</i> 119 (2017) 051802
DOI	10.1103/PhysRevLett.119.051802
Subject category	Particle Physics - Experiment ; hep-ex
Accelerator/Facility, Experiment	CERN LHC ; ATLAS
Free keywords	Higgs physics ; particle and resonance production ; experimental results
Abstract	A search for the dimuon decay of the Higgs boson was performed using data corresponding to an integrated luminosity of $36.1 \text{ fb}^{-1}$ collected with the ATLAS detector in $pp$ collisions at $\sqrt{s} = 13$ TeV at the Large Hadron Collider. No significant excess is observed above the expected background. The observed (expected) upper limit on the cross-section times branching ratio is 3.0 (3.1) times the Standard Model prediction at the 95% confidence level for a Higgs boson mass of 125 GeV. When combined with the $pp$ collision data at $\sqrt{s} = 7$ TeV and $\sqrt{s} = 8$ TeV, the observed (expected) upper limit is 2.8 (2.9) times the Standard Model prediction.
Related document	supersedes: <a href="#">ATLAS-CONF-2017-014</a>
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## ATLAS Publication Draft History

**RESTRICTED**

Report number: ATLAS-HIGG-2016-10-001 ; CERN-EP-2017-078

Version: 1

Title: Search for the dimuon decay of the Higgs boson in  $pp$  collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector

Submitter: [stephane.willocq@cern.ch](mailto:stephane.willocq@cern.ch)

Date of document: 03 Mar 2017

Deadline for comments: 10 Mar 2017

Note: Please enter your comments on CDS by Friday, March 10. The open presentation (draft 1 meeting) will follow shortly after. Since these results are targeted for winter conferences, it would be helpful for you to post comments ahead of the deadline if possible. The author list for this paper can be found here:

Draft abstract: A search for the dimuon decay of the Higgs boson has been performed using data corresponding to an integrated luminosity of  $36.1 \text{ fb}^{-1}$  collected with the ATLAS detector in  $pp$  collisions at  $\sqrt{s} = 13$  TeV at the LHC. No significant excess is observed. The observed (expected) upper limit on the production cross-section of the  $H \rightarrow \mu\mu$  process is 3.0 (3.1) times the Standard Model prediction at the 95% confidence level for a Higgs boson mass of 125 GeV. When combined with the ATLAS Run 1 result, the observed (expected) upper limit is 2.7 (2.8) times the Standard Model prediction.

Keywords: [Higgs physics](#) ; [particle and resonance production](#) ; [experimental results](#)

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HIGG-2016-10

Version: 1.0

To be submitted to: Phys. Rev. Lett.

Supporting internal notes

Supporting note: <https://cds.cern.ch/record/2210393>

Comments are due by: March 10, 2017

Abstract

A search for the dimuon decay of the Higgs boson has been performed using data corresponding to an integrated luminosity of  $36.1 \text{ fb}^{-1}$  collected with the ATLAS detector in  $pp$  collisions at  $\sqrt{s} = 13$  TeV at the LHC. No significant excess is observed. The observed (expected) upper limit on the production cross-section of the  $H \rightarrow \mu\mu$  process is 3.0 (3.1) times the Standard Model prediction at the 95% confidence level for a Higgs boson mass of 125 GeV. When combined with the ATLAS Run 1 result, the observed (expected) upper limit is 2.7 (2.8) times the Standard Model prediction.

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Supporting Document 1

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Report number ATL-COM-PHYS-2016-1194

Title **Supporting note: Search for the dimuon decay of the Higgs boson in  $pp$  collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector**

Author(s) **Li, Haifeng (Stony Brook University) (+); Liu, Yanlin (University of Science and Technology of China) (+); Tsybychev, Dmitri (Stony Brook University) (+); Fray, Antony (Queen Mary University of London) (+); Hoenig, Friedrich (Fakultaet fuer Physik, Ludwig-Maximilians-Universitaet Muenchen) (+); Mehta, Andrew (University of Liverpool) (+); Rizvi, Eram (Queen Mary University of London) (+); Thompson, Paul (University of Birmingham) (+); Zhao, Zhengguo (University of Science and Technology of China) (+); Zhou, Bing (University of Michigan, Department of Physics) (+) [Показать всех 12 авторов](#)**

Imprint 25 Aug 2016. - mult. p.

Subject category Particle Physics - Experiment

Accelerator/Facility, Experiment CERN LHC ; ATLAS

Free keywords HIGGS

Abstract A search for the dimuon decay of the Higgs boson has been performed using data corresponding to an integrated luminosity of  $36.1 \text{ fb}^{-1}$  collected with the ATLAS detector in  $pp$  collisions at  $\sqrt{s} = 13$  TeV at the LHC. No significant excess is observed. The observed (expected) upper limit on the production cross-section of the  $H \rightarrow \mu\mu$  process is 3.0 (3.1) times the Standard Model prediction at the 95% confidence level for a Higgs boson mass of 125 GeV. When combined with the ATLAS Run 1 result, the observed (expected) upper limit is 2.7 (2.8) times the Standard Model prediction.

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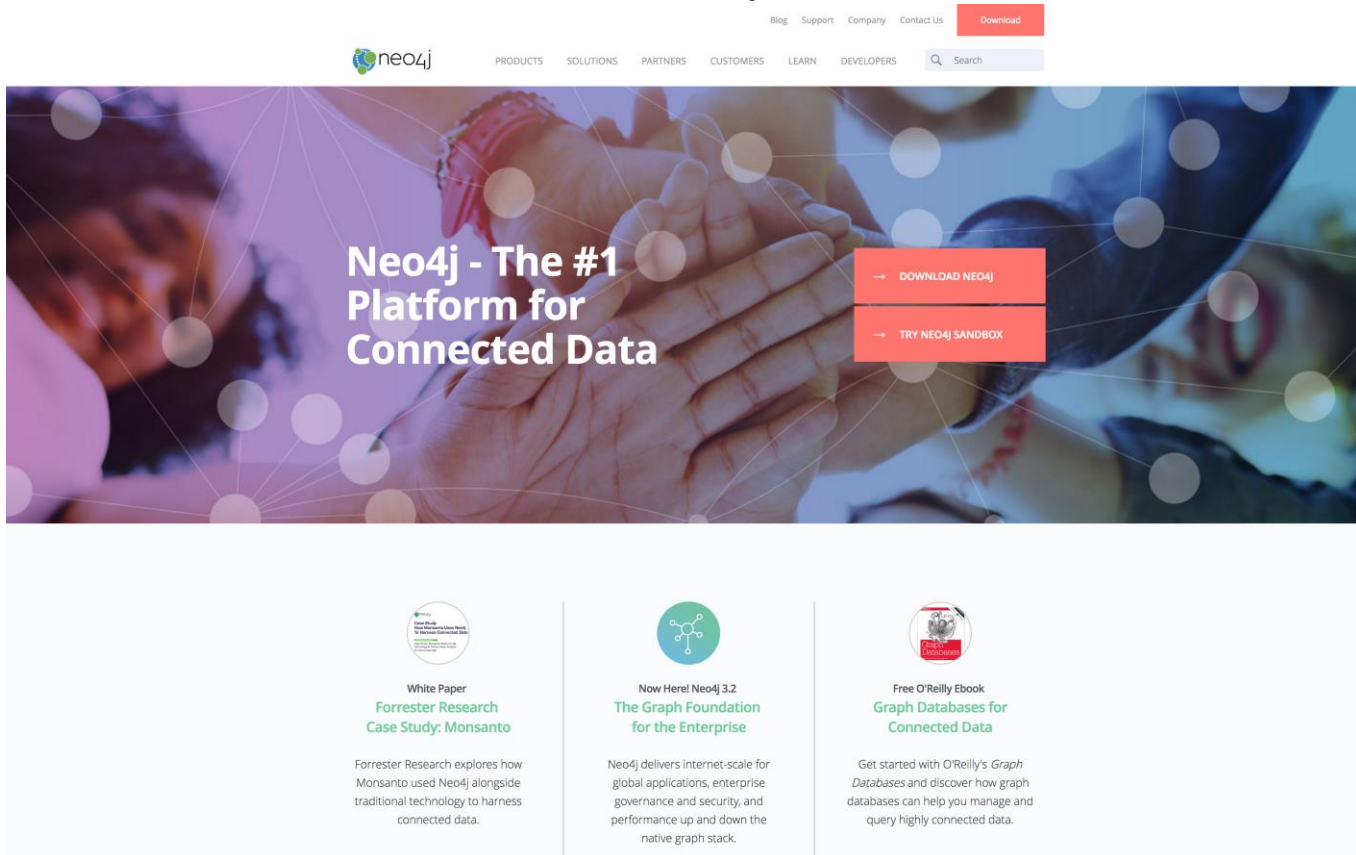
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