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Maria Grigorieva for the DKB Project – august 2017

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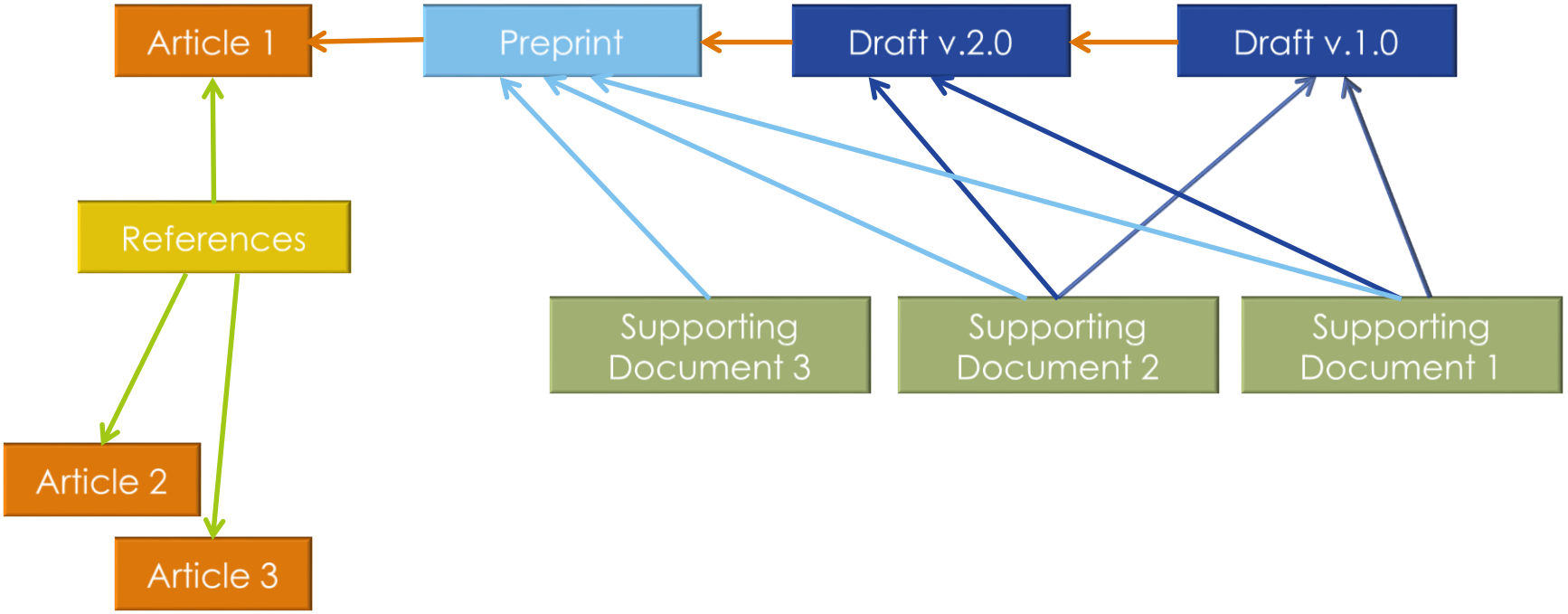

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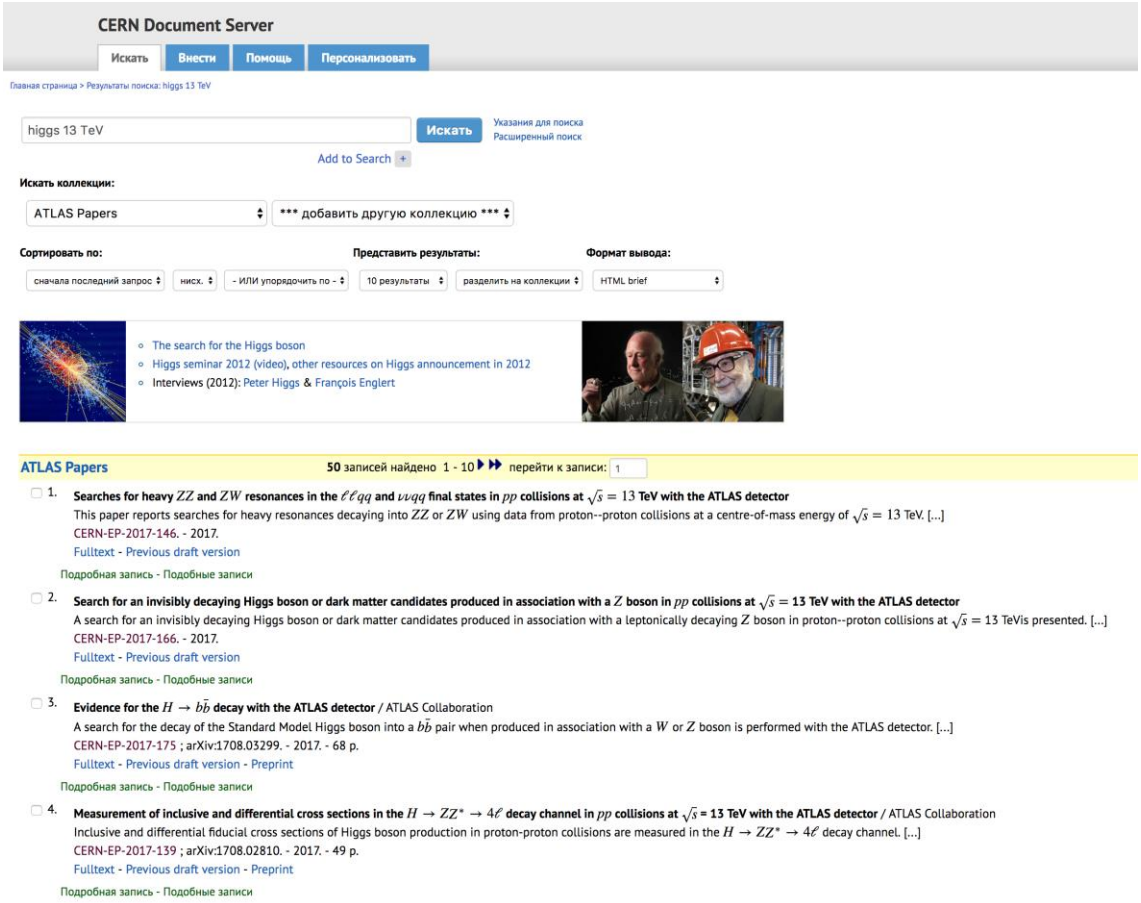

Article in CDS

Article 1

Preprint

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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 *Показать всех 2873 авторов*
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 <http://atlas.web.cern.ch/Atlas/GROUPS/PHYSICS/PAPERS/HIGG-2016-10/>
In:	*Phys. Rev. Lett.* 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 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: ATLAS-CONF-2017-014
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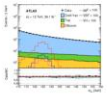
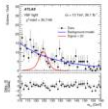

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Запись создана 2017-05-11, последняя модификация 2017-08-17

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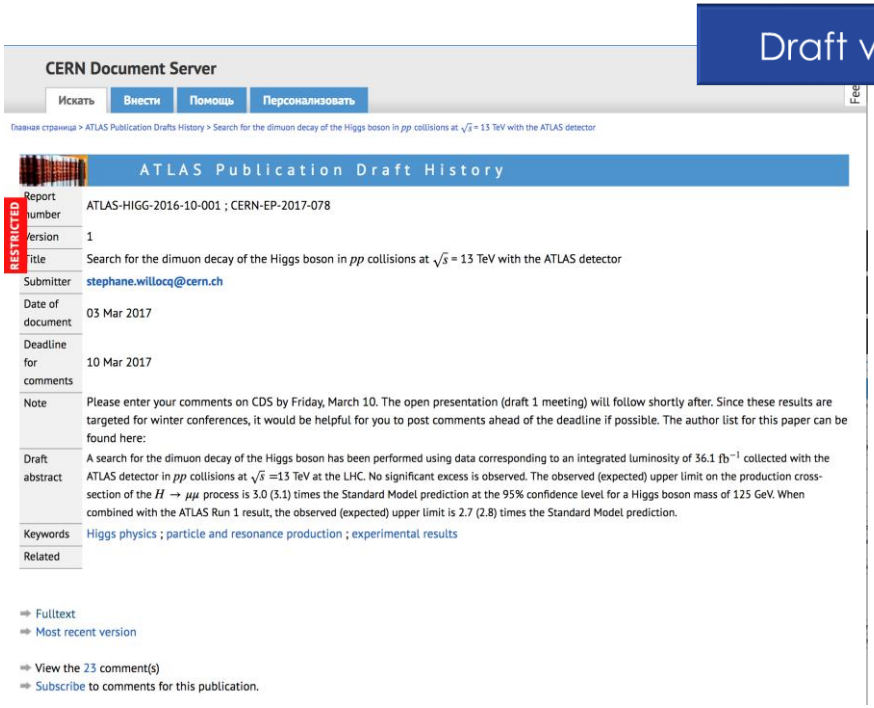
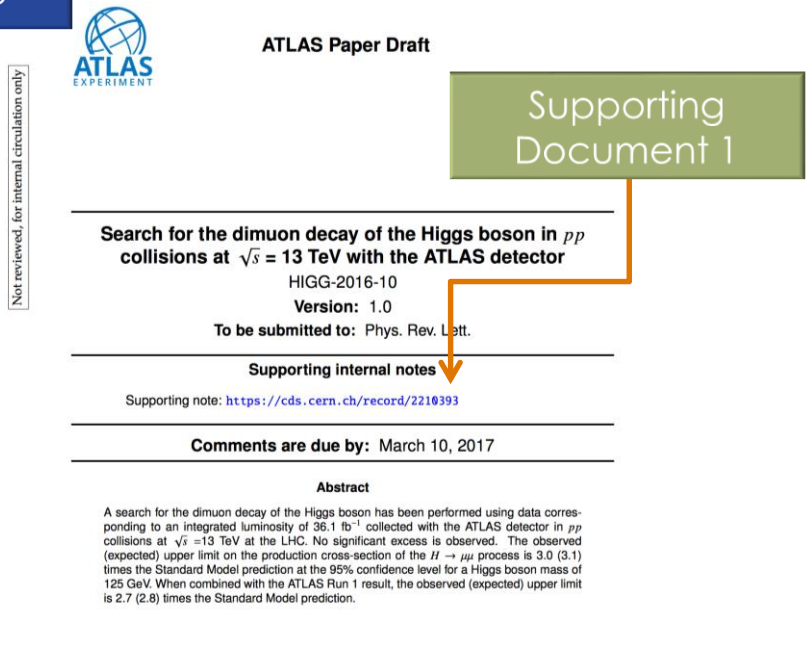
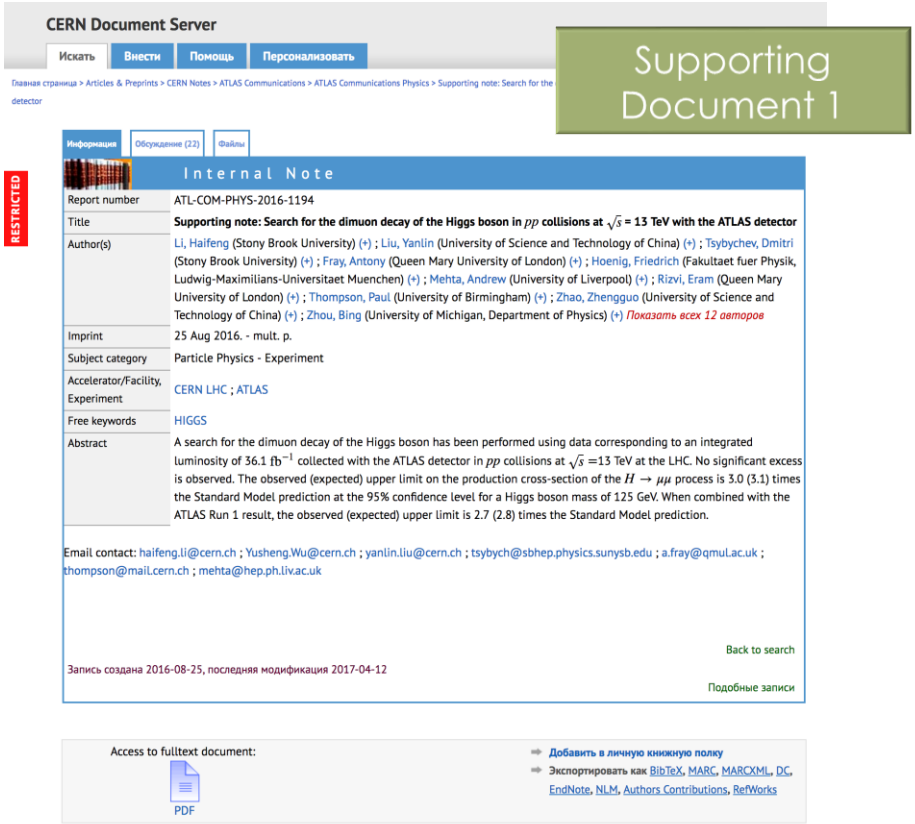




ATLAS Internal Note



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Supporting Document 1

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RESTRICTED

Internal Note

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 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 $H \to \mu\mu$ 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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Запись создана 2016-08-25, последняя модификация 2017-04-12

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