

## **Veröffentlichungen am DESY 2018**



# 1 | POF3-610 - Materie und Universum

## ISI oder Scopus

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T. A. Aaltonen et al.

**Combined Forward-Backward Asymmetry Measurements in Top-Antitop Quark Production at the Tevatron.**

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*Physics letters / B*, 781:55, and PUBDB-2018-04561, CERN-EP-2017-302; arXiv:1712.07291.  
doi: 10.1016/j.physletb.2018.03.057.

ATLAS Collaboration.

**Measurement of the production cross-section of a single top quark in association with a  $Z$  boson in proton-proton collisions at 13 TeV with the ATLAS detector.**

*Physics letters / B*, 780:557, and PUBDB-2018-04534, CERN-EP-2017-188; arXiv:1710.03659.  
doi: 10.1016/j.physletb.2018.03.023.

ATLAS Collaboration.

**Measurement of the Soft-Drop Jet Mass in pp Collisions at  $\sqrt{s} = 13$  TeV with the ATLAS Detector.**

*Physical review letters*, 121(9):092001, and PUBDB-2018-04553, arXiv:1711.08341; CERN-EP-2017-231.  
doi: 10.1103/PhysRevLett.121.092001.

ATLAS Collaboration.

**Measurement of the suppression and azimuthal anisotropy of muons from heavy-flavor decays in Pb+Pb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV with the ATLAS detector.**

*Physical review / C*, 98(4):044905, and PUBDB-2019-00095,

arXiv:1805.05220; CERN-EP-2018-072.  
doi: 10.1103/PhysRevC.98.044905.

ATLAS Collaboration.

**Measurement of the  $W$ -boson mass in  $pp$  collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector.**  
*The European physical journal / C*, 78(2):110, and PUBDB-2019-00141, CERN-EP-2016-305; arXiv:1701.07240.  
doi: 10.1140/epjc/s10052-017-5475-4.

ATLAS Collaboration.

**Measurements of  $b$ -jet tagging efficiency with the ATLAS detector using  $t\bar{t}$  events at  $\sqrt{s} = 13$  TeV.**  
*Journal of high energy physics*, 1808(08):089, and PUBDB-2019-00128, arXiv:1805.01845; CERN-EP-2018-047.  
doi: 10.1007/JHEP08(2018)089.

ATLAS Collaboration.

**Measurements of differential cross sections of top quark pair production in association with jets in  $pp$  collisions at  $\sqrt{s} = 13$  TeV using the ATLAS detector.**  
*Journal of high energy physics*, 1810(10):159, and PUBDB-2018-04577, arXiv:1802.06572; CERN-EP-2017-227; CERN-EP-2017-227.  
doi: 10.1007/JHEP10(2018)159.

ATLAS Collaboration.

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*Physical review / D*, 98(5):052005, and PUBDB-2018-05447, arXiv:1802.04146; CERN-EP-2017-288.  
doi: 10.1103/PhysRevD.98.052005.

ATLAS Collaboration.

**Measurements of  $t\bar{t}$  differential cross-sections of highly boosted top quarks decaying to all-hadronic final states in  $pp$  collisions at  $\sqrt{s} = 13$  TeV using the ATLAS detector.**  
*Physical review / D*, 98(1):012003, and PUBDB-2018-04564, arXiv:1801.02052; CERN-EP-2017-226.  
doi: 10.1103/PhysRevD.98.012003.

ATLAS Collaboration.

**Observation of centrality-dependent acoplanarity for muon pairs produced via two-photon scattering in Pb+Pb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV with the ATLAS detector.**  
*Physical review letters*, 121(21):212301, and PUBDB-2018-04641, arXiv:1806.08708; CERN-EP-2018-100.  
doi: 10.1103/PhysRevLett.121.212301.

ATLAS Collaboration.

**Observation of  $H \rightarrow b\bar{b}$  decays and  $VH$  production with the ATLAS detector.**  
*Physics letters / B*, 786:59, and PUBDB-2018-04344, arXiv:1808.08238; CERN-EP-2018-215.  
doi: 10.1016/j.physletb.2018.09.013.

ATLAS Collaboration.

**Observation of Higgs boson production in association with a top quark pair at the LHC with the ATLAS detector.**  
*Physics letters / B*, 784:173, and PUBDB-2018-04639, arXiv:1806.00425; CERN-EP-2018-138.  
doi: 10.1016/j.physletb.2018.07.035.

ATLAS Collaboration.

**Performance of missing transverse momentum reconstruction with the ATLAS detector using proton-proton collisions at  $\sqrt{s} = 13$  TeV.**  
*The European physical journal / C*, 78(11):903, and PUBDB-2018-04578, arXiv:1802.08168; CERN-EP-2017-274.  
doi: 10.1140/epjc/s10052-018-6288-9.

ATLAS Collaboration.

**Probing the quantum interference between singly and doubly resonant top-quark production in  $pp$  collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector.**  
*Physical review letters*, 121(15):152002, and PUBDB-2018-04525, arXiv:1806.04667; CERN-EP-2018-087.  
doi: 10.1103/PhysRevLett.121.152002.

ATLAS Collaboration.

**Prompt and non-prompt  $J/\psi$  and  $\psi(2S)$  suppression at high transverse momentum in 5.02 TeV Pb+Pb collisions with the ATLAS experiment.**  
*The European physical journal / C*, 78(9):762, and PUBDB-2019-00153, CERN-EP-2018-049; arXiv:1805.04077.  
doi: 10.1140/epjc/s10052-018-6219-9.

ATLAS Collaboration.

**Prompt and non-prompt  $J/\psi$  elliptic flow in Pb+Pb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV with the ATLAS detector.**  
*The European physical journal / C*, 78(9):784, and PUBDB-2018-04369, arXiv:1807.05198; CERN-EP-2018-170.  
doi: 10.1140/epjc/s10052-018-6243-9.

ATLAS Collaboration.

**Search for a heavy Higgs boson decaying into a  $Z$  boson and another heavy Higgs boson in the  $\ell\ell b\bar{b}$  final state in  $pp$  collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector.**  
*Physics letters / B*, 783:392, and PUBDB-2019-00764, arXiv:1804.01126; CERN-EP-2018-030.  
doi: 10.1016/j.physletb.2018.07.006.

ATLAS Collaboration.

**Search for a new heavy gauge boson resonance decaying into a lepton and missing transverse momentum in  $36 \text{ fb}^{-1}$  of  $pp$  collisions at  $\sqrt{s} = 13$  TeV with the ATLAS experiment.**  
*The European physical journal / C*, 78(5):401, and PUBDB-2019-00140, CERN-EP-2017-082; arXiv:1706.04786.  
doi: 10.1140/epjc/s10052-018-5877-y.

ATLAS Collaboration.

**Search for a Structure in the  $B_s^0 \pi^\pm$  Invariant Mass Spectrum with the ATLAS Experiment.**  
*Physical review letters*, 120(20):202007, and PUBDB-2018-04571, CERN-EP-2017-333; arXiv:1802.01840.  
doi: 10.1103/PhysRevLett.120.202007.

ATLAS Collaboration.

**Search for additional heavy neutral Higgs and gauge bosons in the ditau final state produced in  $36 \text{ fb}^{-1}$  of  $pp$  collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector.**  
*Journal of high energy physics*, 1801(01):055, and PUBDB-2018-04531, CERN-EP-2017-199; arXiv:1709.07242.  
doi: 10.1007/JHEP01(2018)055.

ATLAS Collaboration.

**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.**

*Physics letters / B*, 776:318, and PUBDB-2019-00125, CERN-EP-2017-166; arXiv:1708.09624.  
doi: 10.1016/j.physletb.2017.11.049.

ATLAS Collaboration.

**Search for charged Higgs bosons decaying into top and bottom quarks at  $\sqrt{s} = 13$  TeV with the ATLAS detector.**

*Journal of high energy physics*, 1811(11):085, and PUBDB-2018-04646, arXiv:1808.03599; CERN-EP-2018-168.  
doi: 10.1007/JHEP11(2018)085.

ATLAS Collaboration.

**Search for charged Higgs bosons decaying via  $H^\pm \rightarrow \tau^\pm \nu_\tau$  in the  $\tau$ +jets and  $\tau$ +lepton final states with  $36 \text{ fb}^{-1}$  of  $pp$  collision data recorded at  $\sqrt{s} = 13$  TeV with the ATLAS experiment.**

*Journal of high energy physics*, 1809(09):139, and PUBDB-2018-04363, arXiv:1807.07915; CERN-EP-2018-148.  
doi: 10.1007/JHEP09(2018)139.

ATLAS Collaboration.

**Search for chargino-neutralino production using recursive jag-saw reconstruction in final states with two or three charged leptons in proton-proton collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector.**

*Physical review / D*, 98(9):092012, and PUBDB-2019-00151, arXiv:1806.02293; CERN-EP-2018-113.  
doi: 10.1103/PhysRevD.98.092012.

ATLAS Collaboration.

**Search for dark matter in events with a hadronically decaying vector boson and missing transverse momentum in  $pp$  collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector.**

*Journal of high energy physics*, 1810(10):180, and PUBDB-2018-04643, arXiv:1807.11471; CERN-EP-2018-083.  
doi: 10.1007/JHEP10(2018)180.

ATLAS Collaboration.

**Search for dark matter produced in association with bottom or top quarks in  $\sqrt{s} = 13$  TeV  $pp$  collisions with the ATLAS detector.**

*The European physical journal / C*, 78(1):18, and PUBDB-2018-00660, CERN-EP-2017-229; arXiv:1710.11412.  
doi: 10.1140/epjc/s10052-017-5486-1.

ATLAS Collaboration.

**Search for diboson resonances with boson-tagged jets in  $pp$  collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector.**

*Physics letters / B*, 777:91, and PUBDB-2017-13880, CERN-EP-2017-147; arXiv:1708.04445.  
doi: 10.1016/j.physletb.2017.12.011.

ATLAS Collaboration.

**Search for doubly charged Higgs boson production in multi-lepton final states with the ATLAS detector using proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*The European physical journal / C*, 78(3):199, and PUBDB-2018-04538, CERN-EP-2017-198; arXiv:1710.09748.  
doi: 10.1140/epjc/s10052-018-5661-z.

ATLAS Collaboration.

**Search for electroweak production of supersymmetric particles in final states with two or three leptons at  $\sqrt{s} = 13$  TeV with the ATLAS detector.**

*The European physical journal / C*, 78:995, and PUBDB-2019-00148, CERN-EP-2017-303; arXiv:1803.02762.  
doi: 10.1140/epjc/s10052-018-6423-7.

ATLAS Collaboration.

**Search for electroweak production of supersymmetric states in scenarios with compressed mass spectra at  $\sqrt{s} = 13$  TeV with the ATLAS detector.**

*Physical review / D*, 97(5):052010, and PUBDB-2018-04562, CERN-EP-2017-297; arXiv:1712.08119.  
doi: 10.1103/PhysRevD.97.052010.

ATLAS Collaboration.

**Search for exclusive Higgs and  $Z$  boson decays to  $\phi\gamma$  and  $\rho\gamma$  with the ATLAS detector.**

*Journal of high energy physics*, 1807(07):127, and PUBDB-2018-04558, CERN-EP-2017-273; arXiv:1712.02758.  
doi: 10.1007/JHEP07(2018)127.

ATLAS Collaboration.

**Search for flavor-changing neutral currents in top quark decays  $t \rightarrow Hc$  and  $t \rightarrow Hu$  in multilepton final states in proton-proton collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector.**

*Physical review / D*, 98(3):032002, and PUBDB-2019-00145, arXiv:1805.03483; CERN-EP-2018-067.  
doi: 10.1103/PhysRevD.98.032002.

ATLAS Collaboration.

**Search for flavour-changing neutral current top-quark decays  $t \rightarrow qZ$  in proton-proton collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector.**

*Journal of high energy physics*, 1807(07):176, and PUBDB-2018-04579, CERN-EP-2018-018; arXiv:1803.09923.  
doi: 10.1007/JHEP07(2018)176.

ATLAS Collaboration.

**Search for heavy particles decaying into top-quark pairs using lepton-plus-jets events in proton-proton collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector.**

*The European physical journal / C*, 78(7):565, and PUBDB-2019-00771, arXiv:1804.10823; CERN-EP-2018-48.  
doi: 10.1140/epjc/s10052-018-5995-6.

ATLAS Collaboration.

**Search for heavy resonances decaying into  $WW$  in the  $e\nu\mu\nu$  final state in  $pp$  collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector.**

*The European physical journal / C*, 78(1):24, and PUBDB-2018-04533, CERN-EP-2017-214; arXiv:1710.01123.  
doi: 10.1140/epjc/s10052-017-5491-4.

ATLAS Collaboration.

**Search for heavy resonances decaying to a photon and a hadronically decaying  $Z/W/H$  boson in  $pp$  collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector.**

*Physical review / D*, 98(3):032015, and PUBDB-2019-00100, arXiv:1805.01908; CERN-EP-2018-055.  
doi: 10.1103/PhysRevD.98.032015.

ATLAS Collaboration.

**Search for heavy ZZ resonances in the  $\ell^+\ell^-\ell^+\ell^-$  and  $\ell^+\ell^-\nu\bar{\nu}$  final states using proton–proton collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector.**

*The European physical journal / C*, 78(4):293, and PUBDB-2018-04560, CERN-EP-2017-251; arXiv:1712.06386.  
doi: 10.1140/epjc/s10052-018-5686-3.

ATLAS Collaboration.

**Search for Higgs boson decays into pairs of light (pseudo)scalar particles in the  $\gamma\gamma jj$  final state in  $pp$  collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector.**

*Physics letters / B*, 782:750, and PUBDB-2019-00154, CERN-EP-2017-295; arXiv:1803.11145.  
doi: 10.1016/j.physletb.2018.06.011.

ATLAS Collaboration.

**Search for Higgs boson decays to beyond-the-Standard-Model light bosons in four-lepton events with the ATLAS detector at  $\sqrt{s} = 13$  TeV.**

*Journal of high energy physics*, 1806(06):166, and PUBDB-2018-04574, CERN-EP-2017-293; arXiv:1802.03388.  
doi: 10.1007/JHEP06(2018)166.

ATLAS Collaboration.

**Search for Higgs boson pair production in the  $\gamma\gamma b\bar{b}$  final state with 13 TeV  $pp$  collision data collected by the ATLAS experiment.**

*Journal of high energy physics*, 1811(11):040, and PUBDB-2018-04524, arXiv:1807.04873; CERN-EP-2018-130.  
doi: 10.1007/JHEP11(2018)040.

ATLAS Collaboration.

**Search for Higgs boson pair production in the  $\gamma\gamma WW^*$  channel using  $pp$  collision data recorded at  $\sqrt{s} = 13$  TeV with the ATLAS detector.**

*The European physical journal / C*, 78(12):1007, and PUBDB-2019-00300, arXiv:1807.08567; CERN-EP-2018-104.  
doi: 10.1140/epjc/s10052-018-6457-x.

ATLAS Collaboration.

**Search for Higgs bosons produced via vector-boson fusion and decaying into bottom quark pairs in  $\sqrt{s} = 13$  TeV  $pp$  collisions with the ATLAS detector.**

*Physical review / D*, 98(5):052003, and PUBDB-2018-04365, arXiv:1807.08639; CERN-EP-2018-140.  
doi: 10.1103/PhysRevD.98.052003.

ATLAS Collaboration.

**Search for High-Mass Resonances Decaying to  $\tau\nu$  in  $pp$  Collisions at  $\sqrt{s} = 13$  TeV with the ATLAS Detector.**

*Physical review letters*, 120(16):161802, and PUBDB-2018-01923.  
doi: 10.1103/PhysRevLett.120.161802.

ATLAS Collaboration.

**Search for lepton-flavor violation in different-flavor, high-mass final states in  $pp$  collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector.**

*Physical review / D*, 98(9):092008, and PUBDB-2018-04642, arXiv:1807.06573; CERN-EP-2018-137.  
doi: 10.1103/PhysRevD.98.092008.

ATLAS Collaboration.

**Search for long-lived charginos based on a disappearing-track signature in  $pp$  collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector.**

*Journal of high energy physics*, 1806(06):022, and PUBDB-2018-04555, CERN-EP-2017-179; arXiv:1712.02118.  
doi: 10.1007/JHEP06(2018)022.

ATLAS Collaboration.

**Search for long-lived, massive particles in events with displaced vertices and missing transverse momentum in  $\sqrt{s} = 13$  TeV  $pp$  collisions with the ATLAS detector.**

*Physical review / D*, 97(5):052012, and PUBDB-2018-04535, CERN-EP-2017-202; arXiv:1710.04901.  
doi: 10.1103/PhysRevD.97.052012.

ATLAS Collaboration.

**Search for low-mass dijet resonances using trigger-level jets with the ATLAS detector in  $pp$  collisions at  $\sqrt{s} = 13$  TeV.**

*Physical review letters*, 121(8):081801, and PUBDB-2019-00132, arXiv:1804.03496; CERN-EP-2018-033.  
doi: 10.1103/PhysRevLett.121.081801.

ATLAS Collaboration.

**Search for new phenomena in events with same-charge leptons and  $b$ -jets in  $pp$  collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector.**

*Journal of high energy physics*, 1812(12):039, and PUBDB-2019-00119, arXiv:1807.11883; CERN-EP-2018-171.  
doi: 10.1007/JHEP12(2018)039.

ATLAS Collaboration.

**Search for new phenomena in high-mass final states with a photon and a jet from  $pp$  collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector.**

*The European physical journal / C*, 78(2):102, and PUBDB-2018-04529, CERN-EP-2017-148; arXiv:1709.10440.  
doi: 10.1140/epjc/s10052-018-5553-2.

ATLAS Collaboration.

**Search for new phenomena using the invariant mass distribution of same-flavour opposite-sign dilepton pairs in events with missing transverse momentum in  $\sqrt{s} = 13$  TeV  $pp$  collisions with the ATLAS detector.**

*The European physical journal / C*, 78(8):625, and PUBDB-2019-00110, arXiv:1805.11381; CERN-EP-2018-053.  
doi: 10.1140/epjc/s10052-018-6081-9.

ATLAS Collaboration.

**Search for pair production of heavy vector-like quarks decaying into hadronic final states in  $pp$  collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector.**

*Physical review / D*, 98(9):092005, and PUBDB-2018-04645, arXiv:1808.01771; CERN-EP-2018-176.  
doi: 10.1103/PhysRevD.98.092005.

ATLAS Collaboration.

**Search for pair production of heavy vector-like quarks decaying into high- $p_T$   $W$  bosons and top quarks in the lepton-plus-jets final state in  $pp$  collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector.**

*Journal of high energy physics*, 1808(08):048, and PUBDB-2018-04527, arXiv:1806.01762; CERN-EP-2018-088.  
doi: 10.1007/JHEP08(2018)048.

ATLAS Collaboration.

**Search for pair production of higgsinos in final states with at least three  $b$ -tagged jets in  $\sqrt{s} = 13$  TeV  $pp$  collisions using the ATLAS detector.**

*Physical review / D*, 98(9):092002, and PUBDB-2018-04526, arXiv:1806.04030; CERN-EP-2018-050; CERN-EP-2018-050.

doi: 10.1103/PhysRevD.98.092002.

ATLAS Collaboration.

**Search for pair production of up-type vector-like quarks and for four-top-quark events in final states with multiple  $b$ -jets with the ATLAS detector.**

*Journal of high energy physics*, 1807(07):089, and PUBDB-2018-04580, CERN-EP-2018-031; arXiv:1803.09678.

doi: 10.1007/JHEP07(2018)089.

ATLAS Collaboration.

**Search for photonic signatures of gauge-mediated supersymmetry in 13 TeV  $pp$  collisions with the ATLAS detector.**

*Physical review / D*, 97(9):092006, and PUBDB-2018-04572, CERN-EP-2017-323; arXiv:1802.03158.

doi: 10.1103/PhysRevD.97.092006.

ATLAS Collaboration.

**Search for resonances in the mass distribution of jet pairs with one or two jets identified as  $b$ -jets in proton-proton collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector.**

*Physical review / D*, 98(3):032016, and PUBDB-2019-00101, arXiv:1805.09299; CERN-EP-2018-075.

doi: 10.1103/PhysRevD.98.032016.

ATLAS Collaboration.

**Search for resonant  $WZ$  production in the fully leptonic final state in proton-proton collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector.**

*Physics letters / B*, 787:68, and PUBDB-2018-04528, arXiv:1806.01532; CERN-EP-2018-077.

doi: 10.1016/j.physletb.2018.10.021.

ATLAS Collaboration.

**Search for R-parity-violating supersymmetric particles in multi-jet final states produced in  $p$ - $p$  collisions at  $\sqrt{s} = 13$  TeV using the ATLAS detector at the LHC.**

*Physics letters / B*, 785:136, and PUBDB-2019-00139, arXiv:1804.03568; CERN-EP-2017-298.

doi: 10.1016/j.physletb.2018.08.021.

ATLAS Collaboration.

**Search for squarks and gluinos in final states with jets and missing transverse momentum using 36 fb<sup>-1</sup> of  $\sqrt{s} = 13$  TeV  $pp$  collision data with the ATLAS detector.**

*Physical review / D*, 97(11):112001, and PUBDB-2018-04556, CERN-EP-2017-136; arXiv:1712.02332.

doi: 10.1103/PhysRevD.97.112001.

ATLAS Collaboration.

**Search for supersymmetry in events with four or more leptons in  $\sqrt{s} = 13$  TeV  $pp$  collisions with ATLAS.**

*Physical review / D*, 98(3):032009, and PUBDB-2019-00144, arXiv:1804.03602; CERN-EP-2017-300.

doi: 10.1103/PhysRevD.98.032009.

ATLAS Collaboration.

**Search for supersymmetry in final states with charm jets and missing transverse momentum in 13 TeV  $pp$  collisions with the ATLAS detector.**

*Journal of high energy physics*, 1809(09):050, and PUBDB-2019-00129, arXiv:1805.01649; CERN-EP-2018-034.

doi: 10.1007/JHEP09(2018)050.

ATLAS Collaboration.

**Search for Supersymmetry in final states with missing transverse momentum and multiple  $b$ -jets in proton-proton collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector.**

*Journal of high energy physics*, 1806(06):107, and PUBDB-2018-04539, CERN-EP-2017-18; arXiv:1711.01901.

doi: 10.1007/JHEP06(2018)107.

ATLAS Collaboration.

**Search for the Decay of the Higgs Boson to Charm Quarks with the ATLAS Experiment.**

*Physical review letters*, 120(21):211802, and PUBDB-2018-04575, CERN-EP-2017-334; arXiv:1802.04329.

doi: 10.1103/PhysRevLett.120.211802.

ATLAS Collaboration.

**Search for the direct production of charginos and neutralinos in final states with tau leptons in  $\sqrt{s} = 13$  TeV  $pp$  collisions with the ATLAS detector.**

*The European physical journal / C*, 78(2):154, and PUBDB-2019-00150, CERN-EP-2017-173; arXiv:1708.07875.

doi: 10.1140/epjc/s10052-018-5583-9.

ATLAS Collaboration.

**Search for the Higgs boson produced in association with a vector boson and decaying into two spin-zero particles in the  $H \rightarrow aa \rightarrow 4b$  channel in  $pp$  collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector.**

*Journal of high energy physics*, 1810(10):031, and PUBDB-2019-00104, arXiv:1806.07355; CERN-EP-2018-128.

doi: 10.1007/JHEP10(2018)031.

ATLAS Collaboration.

**Search for the standard model Higgs boson produced in association with top quarks and decaying into a  $b\bar{b}$  pair in  $pp$  collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector.**

*Physical review / D*, 97(7):072016, and PUBDB-2018-04563, CERN-EP-2017-291; arXiv:1712.08895.

doi: 10.1103/PhysRevD.97.072016.

ATLAS Collaboration.

**Search for top squarks decaying to tau sleptons in  $pp$  collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector.**

*Physical review / D*, 98(3):032008, and PUBDB-2019-00143, arXiv:1803.10178; CERN-EP-2018-024.

doi: 10.1103/PhysRevD.98.032008.

ATLAS Collaboration.

**Search for top-squark pair production in final states with one lepton, jets, and missing transverse momentum using  $36\text{ fb}^{-1}$  of  $\sqrt{s} = 13\text{ TeV}$  pp collision data with the ATLAS detector.**  
*Journal of high energy physics*, 1806(06):108, and PUBDB-2018-04554, CERN-EP-2017-246; arXiv:1711.11520.  
 doi: 10.1007/JHEP06(2018)108.

ATLAS Collaboration.

**Search for  $W' \rightarrow tb$  decays in the hadronic final state using  $pp$  collisions at  $\sqrt{s} = 13\text{ TeV}$  with the ATLAS detector.**  
*Physics letters / B*, 781:327, and PUBDB-2018-01924.  
 doi: 10.1016/j.physletb.2018.03.036.

ATLAS Collaboration.

**Search for  $WWWZ$  resonance production in  $\ell\nu qq$  final states in  $pp$  collisions at  $\sqrt{s} = 13\text{ TeV}$  with the ATLAS detector.**  
*Journal of high energy physics*, 1803(03):042, and PUBDB-2018-04537, CERN-EP-2017-223; arXiv:1710.07235.  
 doi: 10.1007/JHEP03(2018)042.

ATLAS Collaboration.

**Searches for exclusive Higgs and  $Z$  boson decays into  $J/\psi\gamma$ ,  $\psi(2S)\gamma$ , and  $Y(nS)\gamma$  at  $\sqrt{s} = 13\text{ TeV}$  with the ATLAS detector.**  
*Physics letters / B*, 786:134, and PUBDB-2018-04370, arXiv:1807.00802; CERN-EP-2018-154.  
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CMS Collaboration.

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*Journal of high energy physics*, 1808(08):066, and PUBDB-2018-04331, arXiv:1803.05485; CMS-HIG-17-018; CERN-EP-2018-017.

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CMS Collaboration.

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*The European physical journal / C*, 78(6):457, and PUBDB-2018-02510, CMS-BPH-13-008; CERN-EP-2017-244; arXiv:1710.08949.

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CMS Collaboration.

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*The European physical journal / C*, 78(9):697, and PUBDB-2018-04453, arXiv:1806.11245; CMS-FSQ-16-011; CERN-EP-2018-187.

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CMS Collaboration.

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*Physical review / D*, 97(11):112003, and PUBDB-2018-04420, CMS-TOP-17-002; CERN-EP-2018-039; arXiv:1803.08856.

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CMS Collaboration.

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*The European physical journal / C*, 78(11):965, and PUBDB-2018-05790, arXiv:1804.05252; CMS-SMP-16-015; CERN-EP-2018-071.

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CMS Collaboration.

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CMS Collaboration.

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CMS Collaboration.

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*Journal of high energy physics*, 1804(04):060, and PUBDB-2018-02417, CMS-TOP-16-007; CERN-EP-2017-120; arXiv:1708.07638.

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CMS Collaboration.

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*The European physical journal / C*, 78(6):509, and PUBDB-2018-02434, CMS-HIN-16-025; CERN-EP-2017-308;

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CMS Collaboration.

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CMS Collaboration.

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*Physics letters / B*, 780:251, and PUBDB-2018-01828, CMS-BPH-15-005; CERN-EP-2017-267; arXiv:1710.11002.

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*Physics letters / B*, 779:358, and PUBDB-2018-01417, CMS-TOP-16-020; CERN-EP-2017-296; arXiv:1712.02825.

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CMS Collaboration.

**Measurement of the  $\Lambda_b$  polarization and angular parameters in  $\Lambda_b \rightarrow J/\psi \Lambda$  decays from pp collisions at  $\sqrt{s} = 7$  and 8 TeV.**

*Physical review / D*, 97(7):072010, and PUBDB-2018-01861, CMS-BPH-15-002; CERN-EP-2017-331; arXiv:1802.04867.

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CMS Collaboration.

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*Journal of high energy physics*, 1808(08):011, and PUBDB-2018-04309, arXiv:1711.02547; CMS-TOP-17-005; CERN-EP-2017-286.

doi: 10.1007/JHEP08(2018)011.

CMS Collaboration.

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*Journal of high energy physics*, 2018(10):161, and PUBDB-2018-04441, CMS-HIN-16-024; CERN-EP-2018-097; arXiv:1805.05145.

doi: 10.1007/JHEP10(2018)161.

CMS Collaboration.

**Measurement of the inclusive  $t\bar{t}$  cross section in pp collisions at  $\sqrt{s} = 5.02$  TeV using final states with at least one charged lepton.**

*Journal of high energy physics*, 1803(03):115, and PUBDB-2018-01845, TOP-16-023; CERN-EP-2017-258; arXiv:1711.03143.

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CMS Collaboration.

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*Journal of high energy physics*, 1807(07):161, and PUBDB-2018-04325, arXiv:1802.02613; CMS-FSQ-15-005; CERN-

EP-2018-004.

doi: 10.1007/JHEP07(2018)161.

CMS Collaboration.

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*Physical review letters*, 120(14):142302, and PUBDB-2018-01825, CMS-HIN-16-006; CERN-EP-2017-205; arXiv:1708.09429.

doi: 10.1103/PhysRevLett.120.142302.

CMS Collaboration.

**Measurement of the top quark mass with lepton+jets final states using pp collisions at  $\sqrt{s} = 13$  TeV.**

*The European physical journal / C*, 78(11):891, and PUBDB-2018-04445, CMS-TOP-17-007; CERN-EP-2018-063; arXiv:1805.01428.

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CMS Collaboration.

**Measurement of the underlying event activity in inclusive Z boson production in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*Journal of high energy physics*, 1807(07):032, and PUBDB-2018-04208, CMS-FSQ-16-008; CERN-EP-2017-249; arXiv:1711.04299.

doi: 10.1007/JHEP07(2018)032.

CMS Collaboration.

**Measurement of the weak mixing angle using the forward-backward asymmetry of Drell-Yan events in pp collisions at 8 TeV.**

*The European physical journal / C*, 78(9):701, and PUBDB-2018-04423, arXiv:1806.00863; CMS-SMP-16-007; CERN-EP-2018-126.

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CMS Collaboration.

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*The European physical journal / C*, 78(9):708, and PUBDB-2018-04317, arXiv:1801.03535; CMS-HIG-15-007; CERN-EP-2017-307.

doi: 10.1140/epjc/s10052-018-6146-9.

CMS Collaboration.

**Measurements of differential cross sections of top quark pair production as a function of kinematic event variables in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*Journal of high energy physics*, 1806(06):002, and PUBDB-2018-04333, CMS-TOP-16-014; CERN-EP-2018-013; arXiv:1803.03991.

doi: 10.1007/JHEP06(2018)002.

CMS Collaboration.

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*Journal of high energy physics*, 1811(11):185, and PUBDB-2018-05791, CMS-HIG-16-040; CERN-EP-2018-060; arXiv:1804.02716.

doi: 10.1007/JHEP11(2018)185.

CMS Collaboration.

**Measurements of the differential jet cross section as a function of the jet mass in dijet events from proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*Journal of high energy physics*, 1811(11):113, and PUBDB-2018-05801, arXiv:1807.05974; CMS-SMP-16-010; CERN-EP-2018-180.

doi: 10.1007/JHEP11(2018)113.

CMS Collaboration.

**Measurements of the  $pp \rightarrow ZZ$  production cross section and the  $Z \rightarrow 4\ell$  branching fraction, and constraints on anomalous triple gauge couplings at  $\sqrt{s} = 13$  TeV.**

*The European physical journal / C*, 78(2):165, and PUBDB-2018-01837, CMS-SMP-16-017; CERN-EP-2017-219; arXiv:1709.08601.

doi: 10.1140/epjc/s10052-018-5567-9.

CMS Collaboration.

**Measurements of  $t\bar{t}$  cross sections in association with  $b$  jets and inclusive jets and their ratio using dilepton final states in pp collisions at  $\sqrt{s} = 13$  TeV  $\sigma_{t\bar{t}b\bar{b}}$ .**

*Physics letters / B*, 776:355, and PUBDB-2017-13836, CMS-TOP-16-010; CERN-EP-2017-069; arXiv:1705.10141.

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CMS Collaboration.

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*Physics letters / B*, 782:474, and PUBDB-2018-02418, CMS-HIN-16-001; CERN-EP-2017-186; arXiv:1708.04962.

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CMS Collaboration.

**Observation of Correlated Azimuthal Anisotropy Fourier Harmonics in pp and p + Pb Collisions at the LHC.**

*Physical review letters*, 120(9):092301, and PUBDB-2018-01401, CMS-HIN-16-022; CERN-EP-2017-220; arXiv:1709.09189.

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CMS Collaboration.

**Observation of electroweak production of same-sign W boson pairs in the two jet and two same-sign lepton final state in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*Physical review letters*, 120(8):081801, and PUBDB-2018-01822, CMS-SMP-17-004; CERN-EP-2017-232; arXiv:1709.05822.

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CMS Collaboration.

**Observation of Higgs boson decay to bottom quarks.**

*Physical review letters*, 121(12):121801, and PUBDB-2018-03636, arXiv:1808.08242; CMS-HIG-18-016; CERN-EP-2018-223.

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CMS Collaboration.

**Observation of medium induced modifications of jet fragmentation in PbPb collisions using isolated-photon-tagged jets.**

*Physical review letters*, 121(24):242301, and PUBDB-2018-05788, CMS-HIN-16-014; CERN-EP-2017-337;

arXiv:1801.04895.

doi: 10.1103/PhysRevLett.121.242301.

CMS Collaboration.

**Observation of the  $\chi_{b1}(3P)$  and  $\chi_{b2}(3P)$  and measurement of their masses.**

*Physical review letters*, 121(9):092002, and PUBDB-2018-04429, arXiv:1805.11192; CMS-BPH-17-008; CERN-EP-2018-134.

doi: 10.1103/PhysRevLett.121.092002.

CMS Collaboration.

**Observation of the Higgs boson decay to a pair of  $\tau$  leptons with the CMS detector.**

*Physics letters / B*, 779:283, and PUBDB-2018-01387, CMS-HIG-16-043; CERN-EP-2017-181; arXiv:1708.00373.

doi: 10.1016/j.physletb.2018.02.004.

CMS Collaboration.

**Observation of the  $Z \rightarrow \psi \ell^+ \ell^-$  decay in pp collisions at  $\sqrt{s} = 13$  TeV.**

*Physical review letters*, 121(14):141801, and PUBDB-2018-04448, arXiv:1806.04213; CMS-BPH-16-001; CERN-EP-2018-131.

doi: 10.1103/PhysRevLett.121.141801.

CMS Collaboration.

**Observation of  $t\bar{t}H$  production.**

*Physical review letters*, 120(23):231801, and PUBDB-2018-02184, CMS-HIG-17-035; CERN-EP-2018-064; arXiv:1804.02610.

doi: 10.1103/PhysRevLett.120.231801.

CMS Collaboration.

**Performance of reconstruction and identification of  $\tau$  leptons decaying to hadrons and  $\nu_\tau$  in pp collisions at  $\sqrt{s} = 13$  TeV.**

*Journal of Instrumentation*, 13(10):P10005, and PUBDB-2018-04455, arXiv:1809.02816; CMS-TAU-16-003; CERN-EP-2018-229.

doi: 10.1088/1748-0221/13/10/P10005.

CMS Collaboration.

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*Journal of Instrumentation*, 13(06):P06015, and PUBDB-2018-04409, CMS-MUO-16-001; CERN-EP-2018-058; arXiv:1804.04528.

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CMS Collaboration.

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*Journal of Instrumentation*, 13(10):P10034, and PUBDB-2018-04451, arXiv:1807.03289; CMS-TRK-17-001; CERN-EP-2018-144.

doi: 10.1088/1748-0221/13/10/P10034.

CMS Collaboration.

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*Physical review / C covering nuclear physics*, 98(4):044902, and PUBDB-2018-04198, CMS-HIN-15-008; CERN-EP-2017-218; arXiv:1710.07864.

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CMS Collaboration.

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*Journal of high energy physics*, 1801(01):045, and PUBDB-2018-01052, CMS-HIN-16-021; CERN-EP-2017-261; arXiv:1710.09355.

doi: 10.1007/JHEP01(2018)045.

CMS Collaboration.

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*Journal of high energy physics*, 1811(11):115, and PUBDB-2018-05810, arXiv:1808.06575; CMS-HIG-16-030; CERN-EP-2018-121.

doi: 10.1007/JHEP11(2018)115.

CMS Collaboration.

**Search for a heavy resonance decaying into a Z boson and a vector boson in the  $\nu\bar{\nu}q\bar{q}$  final state.**

*Journal of high energy physics*, 1807(07):075, and PUBDB-2018-04335, CMS-B2G-17-005; CERN-EP-2018-023; arXiv:1803.03838.

doi: 10.1007/JHEP07(2018)075.

CMS Collaboration.

**Search for a heavy resonance decaying into a Z boson and a Z or W boson in  $2\ell 2q$  final states at  $\sqrt{s} = 13$  TeV.**

*Journal of high energy physics*, 1809(09):101, and PUBDB-2018-04417, arXiv:1803.10093; CMS-B2G-17-013; CERN-EP-2018-037.

doi: 10.1007/JHEP09(2018)101.

CMS Collaboration.

**Search for a heavy resonance decaying to a pair of vector bosons in the lepton plus merged jet final state at  $\sqrt{s} = 13$  TeV.**

*Journal of high energy physics*, 1805(05):088, and PUBDB-2018-04319, CMS-B2G-16-029; CERN-EP-2018-015; arXiv:1802.09407.

doi: 10.1007/JHEP05(2018)088.

CMS Collaboration.

**Search for a heavy right-handed W boson and a heavy neutrino in events with two same-flavor leptons and two jets at  $\sqrt{s} = 13$  TeV.**

*Journal of high energy physics*, 1805(05):148, and PUBDB-2018-04414, CMS-EXO-17-011; CERN-EP-2018-028; arXiv:1803.11116.

doi: 10.1007/JHEP05(2018)148.

CMS Collaboration.

**Search for a massive resonance decaying to a pair of Higgs bosons in the four b quark final state in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*Physics letters / B*, 781:244, and PUBDB-2018-01832, CMS-B2G-16-026; CERN-EP-2017-238; arXiv:1710.04960.

doi: 10.1016/j.physletb.2018.03.084.

CMS Collaboration.

**Search for a new scalar resonance decaying to a pair of Z bosons in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*Journal of high energy physics*, 1806(06):127, and PUBDB-2018-04410, CMS-HIG-17-012; CERN-EP-2018-009;

arXiv:1804.01939.

doi: 10.1007/JHEP06(2018)127.

CMS Collaboration.

**Search for a singly produced third-generation scalar leptoquark decaying to a  $\tau$  lepton and a bottom quark in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*Journal of high energy physics*, 1807(07):115, and PUBDB-2018-04450, arXiv:1806.03472; CMS-EXO-17-029; CERN-EP-2018-136.

doi: 10.1007/JHEP07(2018)115.

CMS Collaboration.

**Search for additional neutral MSSM Higgs bosons in the  $\tau\tau$  final state in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*Journal of high energy physics*, 1809(09):007, and PUBDB-2018-04341, CMS-HIG-17-020; CERN-EP-2018-026; arXiv:1803.06553.

doi: 10.1007/JHEP09(2018)007.

CMS Collaboration.

**Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state of two muons and two  $\tau$  leptons in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*Journal of high energy physics*, 1811(11):018, and PUBDB-2018-05798, arXiv:1805.04865; CMS-HIG-17-029; CERN-EP-2018-078.

doi: 10.1007/JHEP11(2018)018.

CMS Collaboration.

**Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state with two b quarks and two  $\tau$  leptons in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*Physics letters / B*, 785:462, and PUBDB-2018-04438, arXiv:1805.10191; CMS-HIG-17-024; CERN-EP-2018-089.

doi: 10.1016/j.physletb.2018.08.057.

CMS Collaboration.

**Search for beyond the standard model Higgs bosons decaying into a  $b\bar{b}$  pair in  $pp$  collisions at  $\sqrt{s} = 13$  TeV.**

*Journal of high energy physics*, 1808(08):113, and PUBDB-2018-04427, arXiv:1805.12191; CMS-HIG-16-018; CERN-EP-2018-124.

doi: 10.1007/JHEP08(2018)113.

CMS Collaboration.

**Search for black holes and sphalerons in high-multiplicity final states in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*Journal of high energy physics*, 1811(11):042, and PUBDB-2018-05797, CMS-EXO-17-023; CERN-EP-2018-093; arXiv:1805.06013.

doi: 10.1007/JHEP11(2018)042.

CMS Collaboration.

**Search for dark matter in events with energetic, hadronically decaying top quarks and missing transverse momentum at  $\sqrt{s} = 13$  TeV.**

*Journal of high energy physics*, 1806(06):027, and PUBDB-2018-04314, CMS-EXO-16-051; CERN-EP-2017-299; arXiv:1801.08427.

doi: 10.1007/JHEP06(2018)027.

CMS Collaboration.

**Search for dark matter produced in association with a Higgs boson decaying to  $\gamma\gamma$  or  $\tau^+\tau^-$  at  $\sqrt{s} = 13$  TeV.**

*Journal of high energy physics*, 1809(09):046, and PUBDB-2018-04447, arXiv:1806.04771; CMS-EXO-16-055; CERN-EP-2018-129.

doi: 10.1007/JHEP09(2018)046.

CMS Collaboration.

**Search for decays of stopped exotic long-lived particles produced in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*Journal of high energy physics*, 1805(05):127, and PUBDB-2018-02433, CMS-EXO-16-004; CERN-EP-2017-330; arXiv:1801.00359.

doi: 10.1007/JHEP05(2018)127.

CMS Collaboration.

**Search for disappearing tracks as a signature of new long-lived particles in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*Journal of high energy physics*, 1808(08):016, and PUBDB-2018-04404, arXiv:1804.07321; CMS-EXO-16-044; CERN-EP-2018-061.

doi: 10.1007/JHEP08(2018)016.

CMS Collaboration.

**Search for electroweak production of charginos and neutralinos in multilepton final states in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*Journal of high energy physics*, 1803(03):166, and PUBDB-2018-02422, CMS-SUS-16-039; CERN-EP-2017-121; arXiv:1709.05406.

doi: 10.1007/JHEP03(2018)166.

CMS Collaboration.

**Search for excited states of light and heavy flavor quarks in the  $\gamma$ +jet final state in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*Physics letters / B*, 781:390, and PUBDB-2018-01842, CMS-EXO-17-002; CERN-EP-2017-271; arXiv:1711.04652.

doi: 10.1016/j.physletb.2018.04.007.

CMS Collaboration.

**Search for gauge-mediated supersymmetry in events with at least one photon and missing transverse momentum in pp collisions at  $\sqrt{s} = 13$  TeV.**

*Physics letters / B*, 780:118, and PUBDB-2018-01841, CMS-SUS-16-046; CERN-EP-2017-284; arXiv:1711.08008.

doi: 10.1016/j.physletb.2018.02.045.

CMS Collaboration.

**Search for Heavy Neutral Leptons in Events with Three Charged Leptons in Proton-Proton Collisions at  $\sqrt{s} = 13$  TeV.**

*Physical review letters*, 120(22):221801, and PUBDB-2018-04324, CMS-EXO-17-012; CERN-EP-2018-006; arXiv:1802.02965.

doi: 10.1103/PhysRevLett.120.221801.

CMS Collaboration.

**Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos and b quarks at  $\sqrt{s} = 13$  TeV.**

*Journal of high energy physics*, 1811(11):172, and PUBDB-2019-00555, arXiv:1807.02826; CMS-B2G-17-004; CERN-

EP-2018-169.

doi: 10.1007/JHEP11(2018)172.

CMS Collaboration.

**Search for heavy resonances decaying to a top quark and a bottom quark in the lepton+jets final state in proton-proton collisions at 13 TeV.**

*Physics letters / B*, 777:39, and PUBDB-2017-13856, CMS-B2G-17-010; CERN-EP-2017-196; arXiv:1708.08539.

doi: 10.1016/j.physletb.2017.12.006.

CMS Collaboration.

**Search for Higgs boson pair production in events with two bottom quarks and two tau leptons in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*Physics letters / B*, 778:101, and PUBDB-2018-01388, CMS-HIG-17-002; CERN-EP-2017-126; arXiv:1707.02909.

doi: 10.1016/j.physletb.2018.01.001.

CMS Collaboration.

**Search for Higgsino pair production in pp collisions at  $\sqrt{s} = 13$  TeV in final states with large missing transverse momentum and two Higgs bosons decaying via  $H \rightarrow b\bar{b}$ .**

*Physical review / D*, D97(3):032007, and PUBDB-2018-01398, CMS-SUS-16-044; CERN-EP-2017-127; arXiv:1709.04896.

doi: 10.1103/PhysRevD.97.032007.

CMS Collaboration.

**Search for high-mass resonances in dilepton final states in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*Journal of high energy physics*, 1806(06):120, and PUBDB-2018-04342, CMS-EXO-16-047; CERN-EP-2018-027; arXiv:1803.06292.

doi: 10.1007/JHEP06(2018)120.

CMS Collaboration.

**Search for high-mass resonances in final states with a lepton and missing transverse momentum at  $\sqrt{s} = 13$  TeV.**

*Journal of high energy physics*, 1806(06):128, and PUBDB-2018-04413, CMS-EXO-16-033; CERN-EP-2018-020; arXiv:1803.11133.

doi: 10.1007/JHEP06(2018)128.

CMS Collaboration.

**Search for lepton flavour violating decays of the Higgs boson to  $\mu\tau$  and  $e\tau$  in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*Journal of high energy physics*, 1806(06):001, and PUBDB-2018-05780, CMS-HIG-17-001; CERN-EP-2017-292; arXiv:1712.07173.

doi: 10.1007/JHEP06(2018)001.

CMS Collaboration.

**Search for lepton-flavor violating decays of heavy resonances and quantum black holes to  $e\mu$  final states in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*Journal of high energy physics*, 1804(04):073, and PUBDB-2018-04338, CMS-EXO-16-058; CERN-EP-2018-001; arXiv:1802.01122.

doi: 10.1007/JHEP04(2018)073.

CMS Collaboration.

**Search for leptoquarks coupled to third-generation quarks in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*Physical review letters*, 121(24):241802, and PUBDB-2018-05804, arXiv:1809.05558; CMS-B2G-16-027; CERN-EP-2018-233.

doi: 10.1103/PhysRevLett.121.241802.

CMS Collaboration.

**Search for long-lived particles with displaced vertices in multijet events in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*Physical review / D*, 98(9):092011, and PUBDB-2018-05792, arXiv:1808.03078; CMS-EXO-17-018; CERN-EP-2018-203.

doi: 10.1103/PhysRevD.98.092011.

CMS Collaboration.

**Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*Journal of high energy physics*, 1801(1):97, and PUBDB-2018-01404, CMS-EXO-17-001; CERN-EP-2017-235; arXiv:1710.00159.

doi: 10.1007/JHEP01(2018)097.

CMS Collaboration.

**Search for massive resonances decaying into  $WW$ ,  $WZ$ ,  $ZZ$ ,  $qW$ , and  $qZ$  with dijet final states at  $\sqrt{s} = 13$  TeV.**

*Physical review / D*, 97(7):072006, and PUBDB-2018-01815, CMS-B2G-17-001; CERN-EP-2017-184; arXiv:1708.05379.

doi: 10.1103/PhysRevD.97.072006.

CMS Collaboration.

**Search for narrow and broad dijet resonances in proton-proton collisions at  $\sqrt{s} = 13$  TeV and constraints on dark matter mediators and other new particles.**

*Journal of high energy physics*, 1808(08):130, and PUBDB-2018-04426, CMS-EXO-16-056; CERN-EP-2018-123; arXiv:1806.00843.

doi: 10.1007/JHEP08(2018)130.

CMS Collaboration.

**Search for narrow resonances in the b-tagged dijet mass spectrum in proton-proton collisions at  $\sqrt{s} = 8$  TeV.**

*Physical review letters*, 120(20):201801, and PUBDB-2018-04323, CMS-EXO-16-057; CERN-EP-2018-007; arXiv:1802.06149.

doi: 10.1103/PhysRevLett.120.201801.

CMS Collaboration.

**Search for natural and split supersymmetry in proton-proton collisions at  $\sqrt{s} = 13$  TeV in final states with jets and missing transverse momentum.**

*Journal of high energy physics*, 1805(05):025, and PUBDB-2018-04326, CMS-SUS-16-038; CERN-EP-2018-003; arXiv:1802.02110.

doi: 10.1007/JHEP05(2018)025.

CMS Collaboration.

**Search for natural supersymmetry in events with top quark pairs and photons in pp collisions at  $\sqrt{s} = 8$  TeV.**

*Journal of high energy physics*, 1803(03):167, and PUBDB-2018-02416, CMS-SUS-15-009; CERN-EP-2017-124;

arXiv:1707.03325.

doi: 10.1007/JHEP03(2018)167.

CMS Collaboration.

**Search for new long-lived particles at  $\sqrt{s} = 13$  TeV.**

*Physics letters / B*, 780:432, and PUBDB-2018-01840, CMS-EXO-16-003; CERN-EP-2017-264; arXiv:1711.09120.

doi: 10.1016/j.physletb.2018.03.019.

CMS Collaboration.

**Search for new phenomena in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum in pp collisions at  $\sqrt{s} = 13$  TeV.**

*Journal of high energy physics*, 1803(03):076, and PUBDB-2018-01836, CMS-SUS-16-034; CERN-EP-2017-170; arXiv:1709.08908.

doi: 10.1007/s13130-018-7845-2.

CMS Collaboration.

**Search for new physics in dijet angular distributions using proton-proton collisions at  $\sqrt{s} = 13$  TeV and constraints on dark matter and other models.**

*The European physical journal / C*, 78(9):789, and PUBDB-2018-04327, arXiv:1803.08030; CMS-EXO-16-046; CERN-EP-2018-036.

doi: 10.1140/epjc/s10052-018-6242-x.

CMS Collaboration.

**Search for new physics in events with a leptonically decaying Z boson and a large transverse momentum imbalance in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*The European physical journal / C*, 78(4):291, and PUBDB-2018-01826, CMS-EXO-16-052; CERN-EP-2017-259; FERMILAB-PUB-17-534-CMS; arXiv:1711.00431.

doi: 10.1140/epjc/s10052-018-5740-1.

CMS Collaboration.

**Search for new physics in events with two soft oppositely charged leptons and missing transverse momentum in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*Physics letters / B*, 782:440, and PUBDB-2019-00404, CERN-EP-2017-336; CMS-SUS-16-048; arXiv:1801.01846.

doi: 10.1016/j.physletb.2018.05.062.

CMS Collaboration.

**Search for new physics in final states with an energetic jet or a hadronically decaying W or Z boson and transverse momentum imbalance at  $\sqrt{s} = 13$  TeV.**

*Physical review / D*, 97(9):092005, and PUBDB-2018-02432, CMS-EXO-16-048; CERN-EP-2017-294; arXiv:1712.02345.

doi: 10.1103/PhysRevD.97.092005.

CMS Collaboration.

**Search for pair production of excited top quarks in the lepton + jets final state.**

*Physics letters / B*, 778:349, and PUBDB-2018-01414, CMS-B2G-16-025; CERN-EP-2017-272; arXiv:1711.10949.

doi: 10.1016/j.physletb.2018.01.049.

CMS Collaboration.

**Search for pair production of vector-like quarks in the  $b\bar{W}b\bar{W}$  channel from proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*Physics letters / B*, B779:82, and PUBDB-2018-01407, CMS-B2G-17-003; CERN-EP-2017-224; arXiv:1710.01539.

doi: 10.1016/j.physletb.2018.01.077.

CMS Collaboration.

**Search for pair-produced resonances decaying to quark pairs in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*Physical review / D*, 98(11):112014, and PUBDB-2019-00549, arXiv:1808.03124; CMS-EXO-17-021; CERN-EP-2018-211.

doi: 10.1103/PhysRevD.98.112014.

CMS Collaboration.

**Search for pair-produced resonances each decaying into at least four quarks in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*Physical review letters*, 121(14):141802, and PUBDB-2018-04421, CMS-EXO-17-022; CERN-EP-2018-094; arXiv:1806.01058.

doi: 10.1103/PhysRevLett.121.141802.

CMS Collaboration.

**Search for Physics Beyond the Standard Model in Events with High-Momentum Higgs Bosons and Missing Transverse Momentum in Proton-Proton Collisions at 13 TeV.**

*Physical review letters*, 120(24):241801, and PUBDB-2019-00818, CMS-SUS-17-006; CERN-EP-2017-322; arXiv:1712.08501.

doi: 10.1103/PhysRevLett.120.241801.

CMS Collaboration.

**Search for physics beyond the standard model in high-mass diphoton events from proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*Physical review / D*, 98(9):092001, and PUBDB-2018-04456, arXiv:1809.00327; CMS-EXO-17-017; CERN-EP-2018-219.

doi: 10.1103/PhysRevD.98.092001.

CMS Collaboration.

**Search for resonances in the mass spectrum of muon pairs produced in association with b quark jets in proton-proton collisions at  $\sqrt{s} = 8$  and 13 TeV.**

*Journal of high energy physics*, 2018(11):161, and PUBDB-2018-05795, arXiv:1808.01890; CMS-HIG-16-017; CERN-EP-2018-204.

doi: 10.1007/JHEP11(2018)161.

CMS Collaboration.

**Search for resonant and nonresonant Higgs boson pair production in the  $b\bar{b}$  final state in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*Journal of high energy physics*, 1801(01):054, and PUBDB-2018-01395, CMS-HIG-17-006; CERN-EP-2017-168; arXiv:1708.04188.

doi: 10.1007/JHEP01(2018)054.

CMS Collaboration.

**Search for resonant pair production of Higgs bosons decaying to bottom quark-antiquark pairs in proton-proton collisions at 13 TeV.**

*Journal of high energy physics*, 1808(08):152, and PUBDB-2018-04449, CMS-HIG-17-009; CERN-EP-2018-127;

arXiv:1806.03548.

doi: 10.1007/JHEP08(2018)152.

CMS Collaboration.

**Search for R-parity violating supersymmetry in pp collisions at  $\sqrt{s} = 13$  TeV using b jets in a final state with a single lepton, many jets, and high sum of large-radius jet masses.**

*Physics letters / B*, 783:114, and PUBDB-2018-02435, CMS-SUS-16-040; CERN-EP-2017-312; arXiv:1712.08920.

doi: 10.1016/j.physletb.2018.06.028.

CMS Collaboration.

**Search for single production of a vector-like T quark decaying to a Z boson and a top quark in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*Physics letters / B*, 781:574, and PUBDB-2018-02421, CMS-B2G-17-007; CERN-EP-2017-155; arXiv:1708.01062.

doi: 10.1016/j.physletb.2018.04.036.

CMS Collaboration.

**Search for single production of vector-like quarks decaying to a b quark and a Higgs boson.**

*Journal of high energy physics*, 1806(06):031, and PUBDB-2018-04337, CMS-B2G-17-009; CERN-EP-2017-338; arXiv:1802.01486.

doi: 10.1007/JHEP06(2018)031.

CMS Collaboration.

**Search for standard model production of four top quarks with same-sign and multilepton final states in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*The European physical journal / C*, C78(2):140, and PUBDB-2018-01410, CMS-TOP-17-009; CERN-EP-2017-262; arXiv:1710.10614.

doi: 10.1140/epjc/s10052-018-5607-5.

CMS Collaboration.

**Search for supersymmetry in events with a  $\tau$  lepton pair and missing transverse momentum in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*Journal of high energy physics*, 1811(11):151, and PUBDB-2018-05803, arXiv:1807.02048; CMS-SUS-17-003; CERN-EP-2018-149.

doi: 10.1007/JHEP11(2018)151.

CMS Collaboration.

**Search for supersymmetry in events with at least three electrons or muons, jets, and missing transverse momentum in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*Journal of high energy physics*, 1802(2):67, and PUBDB-2018-01409, CMS-SUS-16-041; CERN-EP-2017-243; arXiv:1710.09154.

doi: 10.1007/JHEP02(2018)067.

CMS Collaboration.

**Search for supersymmetry in events with one lepton and multiple jets exploiting the angular correlation between the lepton and the missing transverse momentum in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*Physics letters / B*, 780:384, and PUBDB-2018-01834, CMS-SUS-16-042; CERN-EP-2017-201; arXiv:1709.09814.

doi: 10.1016/j.physletb.2018.03.028.

CMS Collaboration.

**Search for supersymmetry in proton-proton collisions at 13 TeV using identified top quarks.**

*Physical review / D*, 97(1):012007, and PUBDB-2019-00797, CMS-SUS-16-050; CERN-EP-2017-269; arXiv:1710.11188. doi: 10.1103/PhysRevD.97.012007.

CMS Collaboration.

**Search for supersymmetry with Higgs boson to diphoton decays using the razor variables at  $\sqrt{s} = 13$  TeV.**

*Physics letters / B*, 779:166, and PUBDB-2018-01051, CMS-SUS-16-045; CERN-EP-2017-158; arXiv:1709.00384. doi: 10.1016/j.physletb.2017.12.069.

CMS Collaboration.

**Search for the decay of a Higgs boson in the  $\ell\ell\gamma$  channel in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*Journal of high energy physics*, 1811(11):152, and PUBDB-2018-05794, arXiv:1806.05996; CMS-HIG-17-007; CERN-EP-2018-092. doi: 10.1007/JHEP11(2018)152.

CMS Collaboration.

**Search for the flavor-changing neutral current interactions of the top quark and the Higgs boson which decays into a pair of b quarks at  $\sqrt{s} = 13$  TeV.**

*Journal of high energy physics*, 1806(06):102, and PUBDB-2018-04204, CMS-TOP-17-003; CERN-EP-2017-309; arXiv:1712.02399. doi: 10.1007/JHEP06(2018)102.

CMS Collaboration.

**Search for the pair production of third-generation squarks with two-body decays to a bottom or charm quark and a neutralino in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*Physics letters / B*, 778:263, and PUBDB-2018-01393, CMS-SUS-16-032; CERN-EP-2017-144; arXiv:1707.07274. doi: 10.1016/j.physletb.2018.01.012.

CMS Collaboration.

**Search for the  $X(5568)$  state decaying into  $B_s^0\pi^\pm$  in proton-proton collisions at  $\sqrt{s} = 8$  TeV.**

*Physical review letters*, 120(20):202005, and PUBDB-2018-02431, CMS-BPH-16-002; CERN-EP-2017-287; arXiv:1712.06144. doi: 10.1103/PhysRevLett.120.202005.

CMS Collaboration.

**Search for third-generation scalar leptoquarks decaying to a top quark and a  $\tau$  lepton at  $\sqrt{s} = 13$  TeV.**

*The European physical journal / C*, 78(9):707, and PUBDB-2018-04336, arXiv:1803.02864; CMS-B2G-16-028; CERN-EP-2018-019. doi: 10.1140/epjc/s10052-018-6143-z.

CMS Collaboration.

**Search for top squarks and dark matter particles in opposite-charge dilepton final states at  $\sqrt{s} = 13$  TeV.**

*Physical review / D*, D97(3):032009, and PUBDB-2018-01412, CMS-SUS-17-001; CERN-EP-2017-252; arXiv:1711.00752. doi: 10.1103/PhysRevD.97.032009.

CMS Collaboration.

**Search for top squarks decaying via four-body or chargino-mediated modes in single-lepton final states in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*Journal of high energy physics*, 1809(09):065, and PUBDB-2018-04440, arXiv:1805.05784; CMS-SUS-17-005; CERN-EP-2018-079. doi: 10.1007/JHEP09(2018)065.

CMS Collaboration.

**Search for  $t\bar{t}H$  production in the all-jet final state in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*Journal of high energy physics*, 1806(06):101, and PUBDB-2018-04328, CMS-HIG-17-022; CERN-EP-2018-038; arXiv:1803.06986. doi: 10.1007/JHEP06(2018)101.

CMS Collaboration.

**Search for vectorlike light-flavor quark partners in proton-proton collisions at  $\sqrt{s} = 8$  TeV.**

*Physical review / D*, 97(7):072008, and PUBDB-2018-01817, CMS-B2G-12-016; CERN-EP-2017-145; arXiv:1708.02510. doi: 10.1103/PhysRevD.97.072008.

CMS Collaboration.

**Search for vectorlike light-flavor quark partners in proton-proton collisions at  $\sqrt{s} = 8$  TeV.**

*Physical review / D*, 97(7):072008, and PUBDB-2018-01818, CMS-B2G-12-016; CERN-EP-2017-145; arXiv:1708.02510. doi: 10.1103/PhysRevD.97.072008.

CMS Collaboration.

**Search for vector-like T and B quark pairs in final states with leptons at  $\sqrt{s} = 13$  TeV.**

*Journal of high energy physics*, 1808(08):177, and PUBDB-2018-04442, arXiv:1805.04758; CMS-B2G-17-011; CERN-EP-2018-069; FERMILAB-PUB-18-191-CMS. doi: 10.1007/JHEP08(2018)177.

CMS Collaboration.

**Search for  $Z\gamma$  resonances using leptonic and hadronic final states in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*Journal of high energy physics*, 1809(09):148, and PUBDB-2018-04202, arXiv:1712.03143; CMS-EXO-17-005; CERN-EP-2017-301. doi: 10.1007/JHEP09(2018)148.

CMS Collaboration.

**Searches for pair production of charginos and top squarks in final states with two oppositely charged leptons in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*Journal of high energy physics*, 1811(11):079, and PUBDB-2018-05799, arXiv:1807.07799; CMS-SUS-17-010; CERN-EP-2018-186. doi: 10.1007/JHEP11(2018)079.

CMS Collaboration.

**Studies of  $B^{*2}(5840)^0$  and  $B_{s1}(5830)^0$  mesons including the observation of the  $B^{*2}(5840)^0 \rightarrow B^0 K_S^0$  decay in proton-proton collisions at  $\sqrt{s} = 8$  TeV.**

*The European physical journal / C*, 78(11):939, and PUBDB-2018-05807, arXiv:1809.03578; CMS-BPH-16-003; CERN-

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## 2 | POF3-620 - Von Materie zu Materialien und Leben

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