

# **Veröffentlichungen am DESY 2017**



# 1 | POF3-610 - Materie und Universum

## ISI oder Scopus

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**Electron efficiency measurements with the ATLAS detector using 2012 LHC proton–proton collision data.**

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*The European physical journal / C*, 77(4):264, and PUBDB-2018-00356, CERN-EP-2016-219; CERN-PH-2016-219; arXiv:1612.02577.

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*Physics letters / B*, 773:354, and PUBDB-2018-00501, CERN-EP-2016-267; arXiv:1702.04519.  
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*Journal of high energy physics*, 1703(03):113, and PUBDB-2017-11953.  
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*The European physical journal / C*, 77(3):172, and PUBDB-2017-02308, CMS-TOP-16-005; CERN-EP-2016-265; arXiv:1611.04040.

doi: 10.1140/epjc/s10052-017-4718-8.

CMS Collaboration.

**Measurement of the  $t\bar{t}$  production cross section using events with one lepton and at least one jet in pp collisions at  $\sqrt{s} = 13$  TeV.**

*Journal of high energy physics*, 1709(09):051, and PUBDB-2017-11810, CMS-TOP-16-006; CERN-EP-2016-321; arXiv:1701.06228.

doi: 10.1007/JHEP09(2017)051.

CMS Collaboration.

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*Physics letters / B*, 766:268, and PUBDB-2017-01316, CMS-SMP-16-002; CERN-EP-2016-169; arXiv:1607.06943.

doi: 10.1016/j.physletb.2017.01.011.

CMS Collaboration.

**Measurements of differential cross sections for associated production of a W boson and jets in proton-proton collisions at  $\sqrt{s} = 8$  TeV.**

*Physical review / D*, 95(5):052002, and PUBDB-2017-02297, CMS-SMP-14-023; CERN-EP-2016-231; CERN-PH-EP-2016-231; arXiv:1610.04222.

doi: 10.1103/PhysRevD.95.052002.

CMS Collaboration.

**Measurements of differential production cross sections for a Z boson in association with jets in pp collisions at  $\sqrt{s} = 8$  TeV.**

*Journal of high energy physics*, 1704(04):022, and PUBDB-2017-02335, CMS-SMP-14-013; CERN-EP-2016-256; arXiv:1611.03844.

doi: 10.1007/JHEP04(2017)022.

CMS Collaboration.

**Measurements of jet charge with dijet events in pp collisions at  $\sqrt{s} = 8$  TeV.**

*Journal of high energy physics*, 1710(10):131, and PUBDB-2017-11848, CMS-SMP-15-003; CERN-EP-2017-085; arXiv:1706.05868.

doi: 10.1007/JHEP10(2017)131.

CMS Collaboration.

**Measurements of properties of the Higgs boson decaying into the four-lepton final state in pp collisions at  $\sqrt{s} = 13$  TeV.**

*Journal of high energy physics*, 1711(11):047, and PUBDB-2017-13853, CMS-HIG-16-041; CERN-EP-2017-123; arXiv:1706.09936.

doi: 10.1007/JHEP11(2017)047.

CMS Collaboration.

**Measurements of the associated production of a Z boson and b jets in pp collisions at  $\sqrt{s} = 8$  TeV.**

*The European physical journal / C*, 77(11):751, and PUBDB-2017-13832, CMS-SMP-14-010; CERN-EP-2016-254; arXiv:1611.06507.

doi: 10.1140/epjc/s10052-017-5140-y.

CMS Collaboration.

**Measurements of the charm jet cross section and nuclear modification factor in pPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV.**

*Physics letters / B*, 772:306, and PUBDB-2017-10129, CMS-HIN-15-012; CERN-EP-2016-274; arXiv:1612.08972.

doi: 10.1016/j.physletb.2017.06.053.

CMS Collaboration.

**Measurements of the  $pp \rightarrow W\gamma\gamma$  and  $pp \rightarrow Z\gamma\gamma$  cross sections and limits on anomalous quartic gauge couplings at  $\sqrt{s} = 8$  TeV.**

*Journal of high energy physics*, 1710(10):072, and PUBDB-2017-11814, CMS-SMP-15-008; CERN-EP-2017-039; arXiv:1704.00366.

doi: 10.1007/JHEP10(2017)072.

CMS Collaboration.

**Measurements of the  $t\bar{t}$  production cross section in lepton+jets final states in pp collisions at 8 TeV and ratio of 8 to 7 TeV cross sections.**

*The European physical journal / C*, 77(1):15, and PUBDB-2017-01306, CMS-TOP-12-006; CERN-EP-2016-016; arXiv:1602.09024.

doi: 10.1140/epjc/s10052-016-4504-z.

CMS Collaboration.

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*Physics letters / B*, 768:103, and PUBDB-2017-01313, CMS-HIN-15-006; CERN-EP-2016-105; arXiv:1605.06699.

doi: 10.1016/j.physletb.2017.01.075.

CMS Collaboration.

**Observation of  $\Upsilon(1S)$  pair production in proton-proton collisions at  $\sqrt{s} = 8$  TeV.**

*Journal of high energy physics*, 1705(05):013, and PUBDB-2017-10118, CMS-BPH-14-008; CERN-EP-2016-237; arXiv:1610.07095.

doi: 10.1007/JHEP05(2017)013.

CMS Collaboration.

**Observation of charge-dependent azimuthal correlations in pPb collisions and its implication for the search for the chiral magnetic effect.**

*Physical review letters*, 118(12):122301, and PUBDB-2017-02269, CMS-HIN-16-009; CERN-EP-2016-236;

arXiv:1610.00263.

doi: 10.1103/PhysRevLett.118.122301.

CMS Collaboration.

**Observation of the decay  $B^+ \rightarrow \psi(2S)\phi(1020)K^+$  in pp collisions at  $\sqrt{s} = 8$  TeV.**

*Physics letters / B*, 764:66, and PUBDB-2016-06647, CMS-BPH-13-009; CERN-EP-2016-161; arXiv:1607.02638.

doi: 10.1016/j.physletb.2016.11.001.

CMS Collaboration.

**Observation of top quark production in proton-nucleus collisions.**

*Physical review letters*, 119(24):242001, and PUBDB-2017-13929, CMS-HIN-17-002; CERN-EP-2017-239; arXiv:1709.07411.

doi: 10.1103/PhysRevLett.119.242001.

CMS Collaboration.

**Particle-flow reconstruction and global event description with the CMS detector.**

*Journal of Instrumentation*, 12(10):P10003, and PUBDB-2017-11850, CMS-PRF-14-001; CERN-EP-2017-110; arXiv:1706.04965.

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CMS Collaboration.

**Principal-component analysis of two-particle azimuthal correlations in PbPb and pPb collisions at CMS.**

*Physical review / C*, 96(6):064902, and PUBDB-2017-13861, CMS-HIN-15-010; CERN-EP-2017-133; arXiv:1708.07113.

doi: 10.1103/PhysRevC.96.064902.

CMS Collaboration.

**Pseudorapidity dependence of long-range two-particle correlations in pPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV.**

*Physical review / C*, 96(1):014915, and PUBDB-2018-00560, CMS-HIN-14-008; CERN-EP-2016-042; arXiv:1604.05347.

doi: 10.1103/PhysRevC.96.014915.

CMS Collaboration.

**Search for a heavy composite Majorana neutrino in the final state with two leptons and two quarks at  $\sqrt{s} = 13$  TeV.**

*Physics letters / B*, B775:315, and PUBDB-2017-13854, CMS-EXO-16-026; CERN-EP-2017-125; arXiv:1706.08578.

doi: 10.1016/j.physletb.2017.11.001.

CMS Collaboration.

**Search for a heavy resonance decaying to a top quark and a vector-like top quark at  $\sqrt{s} = 13$  TeV.**

*Journal of high energy physics*, 1709(09):053, and PUBDB-2017-11798, CMS-B2G-16-013; CERN-EP-2017-035; arXiv:1703.06352.

doi: 10.1007/JHEP09(2017)053.

CMS Collaboration.

**Search for a light pseudoscalar Higgs boson produced in association with bottom quarks in pp collisions at  $\sqrt{s} = 8$  TeV.**

*Journal of high energy physics*, 1711(11):010, and PUBDB-2017-13864, CMS-HIG-15-009; CERN-EP-2017-159; arXiv:1707.07283.

doi: 10.1007/JHEP11(2017)010.

CMS Collaboration.

**Search for anomalous couplings in boosted WW/WZ  $\rightarrow \ell\nu q\bar{q}$  production in proton-proton collisions at  $\sqrt{s} = 8$  TeV.**

*Physics letters / B*, 772:21, and PUBDB-2017-10146, CMS-SMP-13-008; CERN-EP-2017-029; arXiv:1703.06095.

doi: 10.1016/j.physletb.2017.06.009.

CMS Collaboration.

**Search for anomalous Wtb couplings and flavour-changing neutral currents in t-channel single top quark production in pp collisions at  $\sqrt{s} = 7$  and 8 TeV.**

*Journal of high energy physics*, 1702(02):028, and PUBDB-2017-01332, CMS-TOP-14-007; CERN-EP-2016-207; arXiv:1610.03545.

doi: 10.1007/JHEP02(2017)028.

CMS Collaboration.

**Search for associated production of dark matter with a Higgs boson decaying to  $b\bar{b}$  or  $\gamma\gamma$  at  $\sqrt{s} = 13$  TeV.**

*Journal of high energy physics*, 1710(10):180, and PUBDB-2017-13834, CMS-EXO-16-012; CERN-EP-2017-027; arXiv:1703.05236.

doi: 10.1007/JHEP10(2017)180.

CMS Collaboration.

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

*Physics letters / B*, 774:279, and PUBDB-2017-11846, CMS-EXO-15-007; CERN-EP-2017-074; arXiv:1705.01403.

doi: 10.1016/j.physletb.2017.09.053.

CMS Collaboration.

**Search for Charged Higgs Bosons Produced via Vector Boson Fusion and Decaying into a Pair of W and Z Bosons Using pp Collisions at  $\sqrt{s} = 13$  TeV.**

*Physical review letters*, 119(14):141802, and PUBDB-2017-11829, CMS-HIG-16-027; CERN-EP-2017-068; arXiv:1705.02942.

doi: 10.1103/PhysRevLett.119.141802.

CMS Collaboration.

**Search for CP violation in  $t\bar{t}$  production and decay in proton-proton collisions at  $\sqrt{s} = 8$  TeV.**

*Journal of high energy physics*, 1703(03):101, and PUBDB-2017-02338, CMS-TOP-16-001; CERN-EP-2016-266; CMS-TO-16-001; arXiv:1611.08931.

doi: 10.1007/JHEP03(2017)101.

CMS Collaboration.

**Search for Dark Matter and Supersymmetry with a Compressed Mass Spectrum in the Vector Boson Fusion Topology in Proton-Proton Collisions at  $\sqrt{s} = 8$  TeV.**

*Physical review letters*, 118(2):021802, and PUBDB-2017-01311, CMS-SUS-14-019; CERN-EP-2016-096; arXiv:1605.09305.

doi: 10.1103/PhysRevLett.118.021802.

CMS Collaboration.

**Search for dark matter and unparticles in events with a Z boson and missing transverse momentum in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

- Journal of high energy physics*, 1703(03):061, and PUBDB-2017-02341, CMS-EXO-16-010; CERN-EP-2016-309; FERMILAB-PUB-17-011-CMS; arXiv:1701.02042.  
doi: 10.1007/JHEP03(2017)061.
- CMS Collaboration.  
**Search for dark matter produced in association with heavy-flavor quark pairs in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**  
*The European physical journal / C*, C77(12):845, and PUBDB-2018-00251, CMS-EXO-16-005; CERN-EP-2017-087; arXiv:1706.02581.  
doi: 10.1140/epjc/s10052-017-5317-4.
- CMS Collaboration.  
**Search for dark matter produced with an energetic jet or a hadronically decaying W or Z boson at  $\sqrt{s} = 13$  TeV.**  
*Journal of high energy physics*, 1707(07):014, and PUBDB-2017-10160, CMS-EXO-16-037; CERN-EP-2017-031; arXiv:1703.01651.  
doi: 10.1007/JHEP07(2017)014.
- CMS Collaboration.  
**Search for dijet resonances in proton-proton collisions at  $\sqrt{s} = 13$  TeV and constraints on dark matter and other models.**  
*Physics letters / B*, 769:520, and PUBDB-2017-01335, CMS-EXO-16-032; CERN-EP-2016-277; arXiv:1611.03568.  
doi: 10.1016/j.physletb.2017.02.012.
- CMS Collaboration.  
**Search for direct production of supersymmetric partners of the top quark in the all-jets final state in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**  
*Journal of high energy physics*, 1710(10):005, and PUBDB-2017-11801, CMS-SUS-16-049; CERN-EP-2017-129; arXiv:1707.03316.  
doi: 10.1007/JHEP10(2017)005.
- CMS Collaboration.  
**Search for electroweak production of a vector-like quark decaying to a top quark and a Higgs boson using boosted topologies in fully hadronic final states.**  
*Journal of high energy physics*, 1704(04):136, and PUBDB-2017-02340, CMS-B2G-16-005; CERN-EP-2016-290; arXiv:1612.05336.  
doi: 10.1007/JHEP04(2017)136.
- CMS Collaboration.  
**Search for electroweak production of charginos and neutralinos in WH events in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**  
*Journal of high energy physics*, 1711(11):029, and PUBDB-2017-13851, CMS-SUS-16-043; CERN-EP-2017-113; arXiv:1706.09933.  
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- CMS Collaboration.  
**Search for electroweak production of charginos in final states with two  $\tau$  leptons in pp collisions at  $\sqrt{s} = 8$  TeV.**  
*Journal of high energy physics*, 1704(04):018, and PUBDB-2017-02294, CMS-SUS-14-022; CERN-EP-2016-225; arXiv:1610.04870.  
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- CMS Collaboration.  
**Search for Evidence of the Type-III Seesaw Mechanism in Multilepton Final States in Proton-Proton Collisions at  $\sqrt{s} = 13$  TeV.**  
*Physical review letters*, 119(22):221802, and PUBDB-2017-13858, CMS-EXO-17-006; CERN-EP-2017-194; arXiv:1708.07962.  
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- CMS Collaboration.  
**Search for heavy gauge W' boson in events with an energetic lepton and large missing transverse momentum at  $\sqrt{s} = 13$  TeV.**  
*Physics letters / B*, 770:278, and PUBDB-2017-10127, CMS-EXO-15-006; CERN-EP-2016-281; arXiv:1612.09274.  
doi: 10.1016/j.physletb.2017.04.043.
- CMS Collaboration.  
**Search for heavy neutrinos or third-generation leptoquarks in final states with two hadronically decaying  $\tau$  leptons and two jets in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**  
*Journal of high energy physics*, 1703(03):077, and PUBDB-2017-02337, CMS-EXO-16-016; CERN-EP-2016-286; arXiv:1612.01190.  
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- 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.**  
*Physics letters / B*, 768:137, and PUBDB-2017-01329, CMS-B2G-16-003; CERN-EP-2016-226; arXiv:1610.08066.  
doi: 10.1016/j.physletb.2017.02.040.
- CMS Collaboration.  
**Search for heavy resonances decaying to tau lepton pairs in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**  
*Journal of high energy physics*, 1702(02):048, and PUBDB-2017-01334, CMS-EXO-16-008; CERN-EP-2016-273; arXiv:1611.06594.  
doi: 10.1007/JHEP02(2017)048.
- CMS Collaboration.  
**Search for heavy resonances that decay into a vector boson and a Higgs boson in hadronic final states at  $\sqrt{s} = 13$  TeV.**  
*The European physical journal / C*, 77(9):636, and PUBDB-2017-11804, CMS-B2G-17-002; CERN-EP-2017-128; arXiv:1707.01303.  
doi: 10.1140/epjc/s10052-017-5192-z.
- CMS Collaboration.  
**Search for Higgs boson pair production in the  $b\bar{b}\tau\tau$  final state in proton-proton collisions at  $\sqrt{s} = 8$  TeV.**  
*Physical review / D*, 96(7):072004, and PUBDB-2017-11812, CMS-HIG-215-013; CERN-EP-2017-104; arXiv:1707.00350.  
doi: 10.1103/PhysRevD.96.072004.
- CMS Collaboration.  
**Search for high-mass diphoton resonances in proton-proton collisions at 13 TeV and combination with 8 TeV search.**  
*Physics letters / B*, 767:147, and PUBDB-2017-01325, CMS-EXO-16-027; CERN-EP-2016-216; CMS-EXO-16-02; arXiv:1609.02507.  
doi: 10.1016/j.physletb.2017.01.027.

CMS Collaboration.

**Search for high-mass  $Z\gamma$  resonances in  $e^+e^- \gamma$  and  $\mu^+\mu^- \gamma$  final states in proton-proton collisions at  $\sqrt{s} = 8$  and 13 TeV.**

*Journal of high energy physics*, 1701(01):076, and PUBDB-2017-01333, CMS-EXO-16-021; CERN-EP-2016-230; arXiv:1610.02960.

doi: 10.1007/JHEP01(2017)076.

CMS Collaboration.

**Search for high-mass  $Z\gamma$  resonances in proton-proton collisions at  $\sqrt{s} = 8$  and 13 TeV using jet substructure techniques.**

*Physics letters / B*, 772:363, and PUBDB-2017-10139, CMS-EXO-16-025; CERN-EP-2016-300; arXiv:1612.09516.

doi: 10.1016/j.physletb.2017.06.062.

CMS Collaboration.

**Search for leptophobic  $Z'$  bosons decaying into four-lepton final states in proton-proton collisions at  $\sqrt{s} = 8$  TeV.**

*Physics letters / B*, 773:563, and PUBDB-2017-11805, CMS-EXO-14-006; CERN-EP-2016-295; arXiv:1701.01345.

doi: 10.1016/j.physletb.2017.08.069.

CMS Collaboration.

**Search for light bosons in decays of the 125 GeV Higgs boson in proton-proton collisions at  $\sqrt{s} = 8$  TeV.**

*Journal of high energy physics*, 1710(10):076, and PUBDB-2017-11803, CMS-HIG-16-015; CERN-EP-2016-292; arXiv:1701.02032.

doi: 10.1007/JHEP10(2017)076.

CMS Collaboration.

**Search for Low Mass Vector Resonances Decaying to Quark-Antiquark Pairs in Proton-Proton Collisions at  $\sqrt{s} = 13$  TeV.**

*Physical review letters*, 119(11):111802, and PUBDB-2017-11819, CMS-EXO-16-030; CERN-EP-2017-098; arXiv:1705.10532.

doi: 10.1103/PhysRevLett.119.111802.

CMS Collaboration.

**Search for massive resonances decaying into  $WW$ ,  $WZ$  or  $ZZ$  bosons in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*Journal of high energy physics*, 1703(03):162, and PUBDB-2017-02339, CMS-B2G-16-004; CERN-EP-2016-296; arXiv:1612.09159.

doi: 10.1007/JHEP03(2017)162.

CMS Collaboration.

**Search for narrow resonances in dilepton mass spectra in proton-proton collisions at  $\sqrt{s} = 13$  TeV and combination with 8 TeV data.**

*Physics letters / B*, 768:57, and PUBDB-2017-01324, CMS-EXO-15-005; CERN-EP-2016-209; arXiv:1609.05391.

doi: 10.1016/j.physletb.2017.02.010.

CMS Collaboration.

**Search for new phenomena with multiple charged leptons in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*The European physical journal / C*, 77(9):635, and PUBDB-2017-11807, CMS-SUS-16-003; CERN-EP-2016-306; arXiv:1701.06940.

doi: 10.1140/epjc/s10052-017-5182-1.

CMS Collaboration.

**Search for new phenomena with the  $M_{T2}$  variable in the all-hadronic final state produced in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*The European physical journal / C*, 77(10):710, and PUBDB-2017-11828, CMS-SUS-16-036; CERN-EP-2017-084; arXiv:1705.04650.

doi: 10.1140/epjc/s10052-017-5267-x.

CMS Collaboration.

**Search for new physics in the monophoton final state in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*Journal of high energy physics*, 1710(10):073, and PUBDB-2017-11854, CMS-EXO-16-039; CERN-EP-2017-097; arXiv:1706.03794.

doi: 10.1007/JHEP10(2017)073.

CMS Collaboration.

**Search for new physics with dijet angular distributions in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*Journal of high energy physics*, 1707(07):013, and PUBDB-2017-10168, CMS-EXO-15-009; CERN-EP-2017-047; arXiv:1703.09986.

doi: 10.1007/JHEP07(2017)013.

CMS Collaboration.

**Search for pair production of vector-like T and B quarks in single-lepton final states using boosted jet substructure in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*Journal of high energy physics*, 1711(11):085, and PUBDB-2017-13848, CMS-B2G-16-024; CERN-EP-2017-107; arXiv:1706.03408.

doi: 10.1007/JHEP11(2017)085.

CMS Collaboration.

**Search for physics beyond the standard model in events with two leptons of same sign, missing transverse momentum, and jets in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*The European physical journal / C*, 77(9):578, and PUBDB-2017-11817, CMS-SUS-16-035; CERN-EP-2017-071; arXiv:1704.07323.

doi: 10.1140/epjc/s10052-017-5079-z.

CMS Collaboration.

**Search for  $R$ -parity violating supersymmetry with displaced vertices in proton-proton collisions at  $\sqrt{s} = 8$  TeV.**

*Physical review / D*, 95(1):012009, and PUBDB-2017-01330, CMS-SUS-14-020; CERN-EP-2016-224; arXiv:1610.05133.

doi: 10.1103/PhysRevD.95.012009.

CMS Collaboration.

**Search for single production of a heavy vector-like T quark decaying to a Higgs boson and a top quark with a lepton and jets in the final state.**

*Physics letters / B*, 771:80, and PUBDB-2017-10123, CMS-B2G-15-008; CERN-EP-2016-279; arXiv:1612.00999.

doi: 10.1016/j.physletb.2017.05.019.

CMS Collaboration.

**Search for single production of vector-like quarks decaying into a b quark and a W boson in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*Physics letters / B*, 772:634, and PUBDB-2017-10144, CMS-B2G-16-006; CERN-EP-2016-319; arXiv:1701.08328.  
doi: 10.1016/j.physletb.2017.07.022.

CMS Collaboration.

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

*Journal of high energy physics*, 1705(05):029, and PUBDB-2017-10145, CMS-B2G-16-001; CERN-EP-2016-326; arXiv:1701.07409.

doi: 10.1007/JHEP05(2017)029.

CMS Collaboration.

**Search for standard model production of four top quarks in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*Physics letters / B*, 772:336, and PUBDB-2017-10161, CMS-TOP-16-016; CERN-EP-2017-023; arXiv:1702.06164.

doi: 10.1016/j.physletb.2017.06.064.

CMS Collaboration.

**Search for supersymmetry in events with at least one photon, missing transverse momentum, and large transverse event activity in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*Journal of high energy physics*, 1712(12):142, and PUBDB-2018-01389, CMS-SUS-16-047; CERN-EP-2017-130; arXiv:1707.06193.

doi: 10.1007/JHEP12(2017)142.

CMS Collaboration.

**Search for supersymmetry in events with one lepton and multiple jets in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*Physical review / D*, 95(1):012011, and PUBDB-2017-01305, CMS-SUS-15-006; CERN-EP-2016-239; arXiv:1609.09386.

doi: 10.1103/PhysRevD.95.012011.

CMS Collaboration.

**Search for supersymmetry in events with photons and missing transverse energy in pp collisions at 13 TeV.**

*Physics letters / B*, 769:391, and PUBDB-2017-02304, CMS-SUS-15-012; CERN-EP-2016-269; arXiv:1611.06604.

doi: 10.1016/j.physletb.2017.04.005.

CMS Collaboration.

**Search for supersymmetry in multijet events with missing transverse momentum in proton-proton collisions at 13 TeV.**

*Physical review / D*, 96(3):032003, and PUBDB-2017-10163, CMS-SUS-16-033; CERN-EP-2017-072; arXiv:1704.07781.

doi: 10.1103/PhysRevD.96.032003.

CMS Collaboration.

**Search for Supersymmetry in pp Collisions at  $\sqrt{s} = 13$  TeV in the Single-Lepton Final State Using the Sum of Masses of Large-Radius Jets.**

*Physical review letters*, 119(15):151802, and PUBDB-2017-11826, CMS-SUS-16-037; CERN-EP-2017-088; arXiv:1705.04673.

doi: 10.1103/PhysRevLett.119.151802.

CMS Collaboration.

**Search for supersymmetry in the all-hadronic final state using top quark tagging in pp collisions at  $\sqrt{s} = 13$  TeV.**

*Physical review / D*, 96(1):012004, and PUBDB-2017-10135,

CMS-SUS-16-009; CERN-EP-2016-293; arXiv:1701.01954.  
doi: 10.1103/PhysRevD.96.012004.

CMS Collaboration.

**Search for third-generation scalar leptoquarks and heavy right-handed neutrinos in final states with two tau leptons and two jets in proton-proton collisions at  $\sqrt{s} = 13$  TeV.**

*Journal of high energy physics*, 1707(07):121, and PUBDB-2017-10148, CMS-EXO-16-023; CERN-EP-2017-025; arXiv:1703.03995.

doi: 10.1007/JHEP07(2017)121.

CMS Collaboration.

**Search for top quark decays via Higgs-boson-mediated flavor-changing neutral currents in pp collisions at  $\sqrt{s} = 8$  TeV.**

*Journal of high energy physics*, 1702(02):079, and PUBDB-2017-01331, CMS-TOP-13-017; CERN-EP-2016-208; arXiv:1610.04857.

doi: 10.1007/JHEP02(2017)079.

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