Rebeca Gonzalez Suarez - Publication List

Contents

Metrics, $1 \bullet$ Main publications in peer-reviewed journals, $2 \bullet$ Publications from top, $4 \bullet$ Other, $6 \bullet$ Conference proceedings, $70 \bullet$ Public Analysis Summaries, $71 \bullet$ Public top results, $74 \bullet$ Internal Analysis Notes, $75 \cdot$.

Metrics Metrics

As of April 30, 2018:

| | Citeable papers | Published only |
|-----------------------------|-----------------|----------------|
| Number of papers | 778 | 714 |
| Number of citations | 74529 | 74190 |
| Average citations per paper | r 95.8 | 103.9 |
| hHEP index | 128 | 128 |

Breakdown of papers by citations:

| | Citeable papers | Published only |
|----------------------------------|-----------------|----------------|
| Renowned papers (500+) | 14 | 14 |
| Famous papers (250-499) | 29 | 29 |
| Very well-known papers (100-249) | 136 | 135 |
| Well-known papers (50-99) | 193 | 193 |
| Known papers (10-49) | 270 | 265 |
| Less known papers (1-9) | 113 | 71 |
| Unknown papers (0) | 23 | 7 |

The contributions listed here are labeled when it corresponds using the following convention:

$$[PA = Primary Author; ED = Editor; C = Contributor; R = Review]$$

Additionally to this, the ten most relevant peer-reviewed publications are highlighted.

In addition to what is presented in the following, I am an author of all the public results from the CMS collaboration since 2006. They full list can be consulted at

https://cds.cern.ch/collection/CMS

Main publications in peer-reviewed journals

Publications in which I have had a personal contribution, in reverse chronological order. The ten most relevant publications are marked with a \star sign.

Recent CMS results in top and Higgs physics, Rebeca Gonzalez Suarez, arXiv:1707.05054, Modern Physics Letters A, 2, Vol. 32, No. 29 (2017) 1730026 [PA, ED]

Measurement of the transverse momentum spectrum of the Higgs boson produced in pp collisions at sqrt(s) = 8 TeV using H to WW decays, CMS Collaboration, arXiv:1606.01522, JHEP 03 (2017) 032 [R - Higgs to WW]

Measurement of the W boson helicity fractions in the decays of top quark pairs to lepton+jets final states produced in pp collisions at $\sqrt{s}=8$ TeV, CMS Collaboration, arXiv:1605.09047, Phys. Lett. B 762 (2016) 512 [R - ARC]

Measurements of the Higgs boson production and decay rates and constraints on its couplings from a combined ATLAS and CMS analysis of the LHC pp collision data at $\sqrt{s}=$ 7 and 8 TeV, ATLAS and CMS Collaborations, arXiv:1606.02266, JHEP 1608 (2016) 045. [C]

Search for Higgs boson off-shell production in proton-proton collisions at 7 and 8 TeV and derivation of constraints on its total decay width, *CMS Collaboration*, arXiv:1605.02329, JHEP 09 (2016) 051 [R - Higgs to WW] 500th paper of CMS

Search for s channel single top quark production in pp collisions at \sqrt{s} =7 and 8 TeV, CMS Collaboration, arXiv:1603.02555, JHEP 09 (2016) 027 [R - Single Top]

Search for anomalous single top quark production in association with a photon in pp collisions at sqrt(s) = 8 TeV, CMS Collaboration, arXiv:1511.03951, JHEP 04 (2016) 035 [R - Single Top]

Measurement of top quark polarisation in t-channel single top quark production, *CMS Collaboration*, arXiv:1511.02138, JHEP 04 (2016) 073 [R - Single Top]

* Search for the associated production of a Higgs boson with a single top quark in proton-proton collisions at sqrt(s) = 8 TeV, CMS Collaboration, arXiv:1509.08159, JHEP06(2016)177 [C, R-ARC] Cited by 28.

Measurement of the Charge Asymmetry in Top Quark Pair Production in pp Collisions at $\sqrt{s}=8$ TeV using a Template Method, CMS Collaboration, arXiv:1508.03862, Phys. Rev. D 93, 034014 (2016) [R-ARC]

Search for a standard model Higgs boson produced in association with a top-quark pair and decaying to bottom quarks using a matrix element method, *CMS Collaboration*, arXiv:1502.02485, Eur. Phys. J. C 75 (2015) 251 [R-ARC]

Precise determination of the mass of the Higgs boson and tests of compatibility of its couplings with the standard model predictions using proton collisions at 7 and 8 TeV, CMS Collaboration, arXiv:1412.8662, Eur. Phys. J. C 75 (2015) 212 [C]

* Constraints on the spin-parity and anomalous HVV couplings of the Higgs boson in proton collisions at 7 and 8 TeV, CMS Collaboration, arXiv:1411.3441, Phys. Rev. D 92, 012004 (2015) [PA, ED] Cited by 292 (100+).

Measurement of the W boson helicity in events with a single reconstructed top quark in pp collisions at $\sqrt{s} = 8$ TeV, CMS Collaboration, arXiv:1410.1154, JHEP01(2015)053 [R - Single Top]

*** Search for monotop signatures in proton-proton collisions at** \sqrt{s} =8 TeV, CMS Collaboration, arXiv:1410.1149, Phys. Rev. Lett. 114, 101801 (2015) [R - Chair of the Review] Cited by 56.

* Observation of the associated production of a single top quark and a W boson in pp collisions at $\sqrt{s}=8$ TeV, CMS Collaboration, arXiv:1401.2942, Phys. Rev. Lett. 112, 231802. [PA] Cited by $\underline{\bf 158}$ (100+).

Measurement of the t-channel single-top-quark production cross section and of the $|V_{tb}|$ CKM matrix element in pp collisions at $\sqrt{s}=8$ TeV, CMS Collaboration, arXiv:1403.7366, JHEP 06 (2014) 090 [R - Single top]

Searches for electroweak production of charginos, neutralinos, and sleptons decaying to leptons and W, Z, and Higgs bosons in pp collisions at 8 TeV, CMS Collaboration, arXiv:1405.7570, Eur. Phys. J. C 74 (2014) [R-ARC]

* Measurement of Higgs boson production and properties in the WW decay channel with leptonic final states, CMS Collaboration, arXiv:1312.1129, JHEP 01(2014)096 [PA] Cited by 353 (250+).

Snowmass 2013 Top quark working group report, (Top Quark Working Group Collaboration), arXiv:1311.2028 [C]

Observation of a new boson with mass near 125 GeV in pp collisions at $\sqrt{s}=7$ and 8 TeV, CMS Collaboration, arXiv:1303.4571, JHEP 1306 (2013) 081 [C]

* Evidence for associated production of a single top quark and W boson in pp collisions at 7 TeV, CMS Collaboration, arXiv:1209.3489, Phys. Rev. Lett. 110, 022003 (2013) [PA, ED] Cited by 140 (100+).

Search for electroweak production of charginos and neutralinos using leptonic final states in pp collisions at $\sqrt(s)=7$ TeV, CMS Collaboration,arXiv:1209.6620, JHEP 1211 (2012) 147 [R-ARC]

* Observation of a new boson at a mass of 125 GeV with the CMS experiment at the LHC, CMS Collaboration, arXiv:1207.7235, Phys.Lett. B716 (2012) 30-61 [C] Cited by 8111 (1000+).

Search for physics beyond the standard model in events with a **Z** boson, jets, and missing transverse energy in pp collisions at $\sqrt(s) = 7$ TeV, CMS Collaboration, arXiv:1204.3774, Physics Letters B 716 (2012) 260-284 [R-ARC]

- * Search for the standard model Higgs boson decaying to a W pair in the fully leptonic final state in pp collisions at $\sqrt(s) = 7$ TeV, CMS Collaboration, arXiv:1202.1489, Phys.Lett. B 710 (2012) 91-113 [C] Cited by $\underline{171}$ (100+).
- * Measurement of the $t\bar{t}$ Production Cross Section in pp Collisions at 7 TeV in Lepton + Jets Events Using b-quark Jet Identification, CMS Collaboration, arXiv:1108.3773, Phys.Rev. D84 (2011) 092004 [C] Cited by $\underline{\mathbf{133}}$ (100+).
- * Measurement of W^+W^- Production and Search for the Higgs Boson in pp Collisions at $\sqrt{s}=7$ TeV, CMS Collaboration, arXiv:1102.5429, Phys.Lett. B 699 (2011) 25-47 [C] Cited by $\underline{172}$ (100+).

Publications from top

Publications submitted to journals during my period as convener of the top quark physics analysis group in CMS, in reverse chronological order:

Measurement of differential cross sections for the production of top quark pairs and of additional jets in lepton+jets events from pp collisions at $\sqrt{s}=13$ TeV CMS Collaboration, Submitted to PRD, arXiv:1803.08856

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 $\it CMS$ $\it Collaboration$, Submitted to JHEP, arXiv:1803.03991

Measurement of the associated production of a single top quark and a Z boson in pp collisions at $\sqrt{s}=13$ TeV CMS Collaboration, Phys.Lett. B779 (2018) 358-384, arXiv:1712.02825

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 CMS Collaboration, Submitted to JHEP, arXiv:1712.02399

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 CMS Collaboration, JHEP 03 (2018) 115, arXiv:1711.03143

Measurement of the cross section for top quark pair production in association with a W or Z boson in proton-proton collisions at $\sqrt{s}=13$ TeV CMS Collaboration, Submitted to JHEP, arXiv:1711.02547

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 CMS Collaboration, Submitted to Eur. Phys. J. C, arXiv:1710.10614

Combination of inclusive and differential $t\bar{t}$ charge asymmetry measurements using ATLAS and CMS data at $\sqrt{s}=7$ and 8 TeV CMS and ATLAS Collaborations, Accepted by JHEP, arXiv:1709.05327

Measurement of normalized differential $t\bar{t}$ cross sections in the dilepton channel from pp collisions at $\sqrt{s}=13$ TeV CMS Collaboration, Accepted by JHEP, arXiv:1708.07638

Measurement of the semileptonic $t\bar{t}+\gamma$ production cross section in pp collisions at $\sqrt{s}=8$ TeV CMS Collaboration, JHEP 10 (2017) 006, arXiv:1706.08128

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 *CMS Collaboration*, Phys. Lett. B 776 (2017) 355, arXiv:1705.10141

Measurement of the top quark mass in the dileptonic $t\bar{t}$ decay channel using the mass observables M_{bl} , M_{T2} , and M_{lb} in pp collisions at $\sqrt{s}=$ 8 TeV CMS Collaboration, Phys. Rev. D 96 (2017) 032002, arXiv:1704.06142

Measurement of the jet mass in highly boosted $t\bar{t}$ events from pp collisions at $\sqrt{s}=$ 8 TeV CMS Collaboration, Eur. Phys. J. C 77 (2017) 467, arXiv:1703.06330

Measurement of the top quark mass using single top quark events in proton-proton collisions at \sqrt{s} = 8 TeV *CMS Collaboration*, EPJC 77 (2017) 354, arXiv:1703.02530

Measurement of double-differential cross sections for top quark pair production in pp collisions at \sqrt{s} = 8 TeV and impact on parton distribution functions CMS Collaboration, EPJC 77 (2017) 459, arXiv:1703.01630

Search for standard model production of four top quarks in proton-proton collisions at \sqrt{s} = 13 TeV, CMS Collaboration, Phys. Lett. B 772 (2017) 336, arXiv:1702.06164

Search for associated production of a Z boson with a single top quark and for tZ flavour-changing interactions in pp collisions at \sqrt{s} = 8 TeV, CMS Collaboration, JHEP 07 (2017) 003, arXiv:1702.01404

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, CMS Collaboration, JHEP 09 (2017) 051, arXiv:1701.06228

Search for CP violation in $t\bar{t}$ production and decay in proton-proton collisions at $\sqrt{s}=$ 8 TeV, CMS Collaboration, JHEP 03 (2017) 101, arXiv:1611.08931

Measurement of the $t\bar{t}$ production cross section using events in the $e\mu$ final state in pp collisions at $\sqrt{s}=13$ TeV, CMS Collaboration, EPJC 77 (2017) 172, arXiv:1611.04040

Measurement of the mass difference between top quark and antiquark in pp collisions at $\sqrt{s}=8$ TeV , CMS Collaboration, Phys. Lett. B 770 (2017) 50, arXiv:1610.09551

Search for top quark decays via Higgs-boson-mediated flavor-changing neutral currents in pp collisions at $\sqrt{s}=8$ TeV, CMS Collaboration, JHEP 02 (2017) 079, arXiv:1610.04857

Measurement of differential cross sections for top quark pair production using the lepton+jets final state in proton-proton collisions at **13 TeV**, CMS Collaboration, Phys. Rev. D 95, 092001 (2017), arXiv:1610.04191

Cross section measurement of t-channel single top quark production in pp collisions at $\sqrt{s}=13$ TeV, CMS Collaboration, Phys. Lett. B 772 (2017) 752, arXiv:1610.00678

Additional peer-reviewed publications of which I am also an author, in reverse chronological order:

Elliptic flow of charm and strange hadrons in high-multiplicity pPb collisions at $\sqrt{s_{_{
m NN}}}=$ 8.16 TeV CMS Collaboration

arXiv:1804.09767 [hep-ex].

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

arXiv:1804.07321 [hep-ex].

Measurement of differential cross sections for Z boson production in association with jets in proton-proton collisions at $\sqrt{s}=$ 13 TeV CMS Collaboration

arXiv:1804.05252 [hep-ex].

Performance of the CMS muon detector and muon reconstruction with proton-proton collisions at $\sqrt{s}=$ 13 TeV CMS Collaboration

arXiv:1804.04528 [physics.ins-det].

Search for $t\bar{t}$ H production in the $H\to b\bar{b}$ decay channel with leptonic $t\bar{t}$ decays in proton-proton collisions at $\sqrt{s}=$ 13 TeV CMS Collaboration

arXiv:1804.03682 [hep-ex].

Measurements of Higgs boson properties in the diphoton decay channel in proton-proton collisions at $\sqrt{s}=$ 13 TeV CMS Collaboration

arXiv:1804.02716 [hep-ex].

Observation of $t\bar{t}\textbf{H}$ production CMS Collaboration

 $arXiv:1804.02610 \ [hep-ex].$

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

arXiv:1804.01939 [hep-ex].

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

arXiv:1803.11133 [hep-ex].

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 CMS Collaboration

arXiv:1803.11116 [hep-ex].

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

arXiv:1803.10093 [hep-ex].

Measurement of differential cross sections for the production of top quark pairs and of additional jets in lepton+jets events from pp collisions at $\sqrt{s}=$ 13 TeV CMS Collaboration

arXiv:1803.08856 [hep-ex].

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 CMS Collaboration

arXiv:1803.08030 [hep-ex].

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

laboration

arXiv:1803.06986 [hep-ex].

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

arXiv:1803.06553 [hep-ex].

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

arXiv:1803.06292 [hep-ex].

Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying τ leptons at $\sqrt{s}=$ 13 TeVe CMS Collaboration arXiv:1803.05485 [hep-ex].

Search for a heavy resonance decaying into a Z boson and a vector boson in the $\nu \overline{\nu} q \overline{q}$ final state CMS Collaboration

arXiv:1803.03838 [hep-ex].

Test beam demonstration of silicon microstrip modules with transverse momentum discrimination for the future CMS tracking detector CMS Tracker Collaboration

 $10.1088/1748\hbox{-}0221/13/03/P03003.$

JINST 13 (2018) no.03, P03003.

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

arXiv:1803.02864 [hep-ex].

Jet properties in PbPb and pp collisions at $\sqrt{s_{\rm NN}}=$ 5.02 TeV CMS Collaboration arXiv:1803.00042 [nucl-ex].

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 CMS Collaboration

arXiv:1802.09407 [hep-ex].

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

arXiv:1802.06149 [hep-ex].

Measurement of the Λ_b polarization and angular parameters in $\Lambda_b \to J/\psi \, \Lambda$ decays from pp collisions at $\sqrt{s}=$ 7 and 8 TeV CMS Collaboration

arXiv:1802.04867 [hep-ex].

Search for heavy neutral leptons in events with three charged leptons in proton-proton collisions at $\sqrt{s}=$ 13 TeV CMS Collaboration

arXiv:1802.02965 [hep-ex].

Measurement of the inelastic proton-proton cross section at $\sqrt{s}=13$ TeV CMS Collaboration arXiv:1802.02613 [hep-ex].

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

arXiv:1802.02110 [hep-ex].

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

arXiv:1802.01486 [hep-ex].

Search for lepton-flavor violating decays of heavy resonances and quantum black holes to $\mathbf{e}\mu$ final states in proton-proton collisions at $\sqrt{s}=\mathbf{13}$ TeV CMS Collaboration arXiv:1802.01122 [hep-ex].

Comparing transverse momentum balance of b jet pairs in pp and PbPb collisions at $\sqrt{s_{
m NN}}=$ 5.02 TeV CMS Collaboration

arXiv:1802.00707 [hep-ex].

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

arXiv:1801.08427 [hep-ex].

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

arXiv:1801.04895 [hep-ex].

Combined search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s}=$ 13 TeV CMS Collaboration

arXiv:1801.03957 [hep-ex].

Measurement of the $Z\gamma^* \to \tau\tau$ cross section in pp collisions at $\sqrt{s}=$ 13 TeV and validation of τ lepton analysis techniques CMS Collaboration

arXiv:1801.03535 [hep-ex].

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 CMS Collaboration

arXiv:1801.01846 [hep-ex].

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

arXiv:1801.00359 [hep-ex].

Electroweak production of two jets in association with a Z boson in proton-proton collisions at $\sqrt{s}=$ 13 TeV CMS Collaboration

arXiv:1712.09814 [hep-ex].

Measurement of prompt and nonprompt charmonium suppression in PbPb collisions at 5.02 TeV CMS Collaboration

arXiv:1712.08959 [nucl-ex].

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 CMS Collaboration

arXiv:1712.08920 [hep-ex].

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 CMS Collaboration

arXiv:1712.08501 [hep-ex].

Study of Bose-Einstein correlations in pp, pPb, and PbPb collisions at the LHC CMS Collaboration arXiv:1712.07198 [hep-ex].

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

arXiv:1712.07173 [hep-ex].

Identification of heavy-flavour jets with the CMS detector in pp collisions at 13 TeV CMS Collaboration arXiv:1712.07158 [physics.ins-det].

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

arXiv:1712.06144 [hep-ex].

Azimuthal correlations for inclusive 2-jet, 3-jet, and 4-jet events in pp collisions at $\sqrt{s}=$ 13 TeV CMS Collaboration

arXiv:1712.05471 [hep-ex].

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

arXiv:1712.03143 [hep-ex].

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 CMS Collaboration

arXiv:1712.02345 [hep-ex].

Constraints on the double-parton scattering cross section from same-sign W boson pair production in proton-proton collisions at $\sqrt{s}=$ 8 TeV CMS Collaboration

arXiv:1712.02280 [hep-ex].

Search for pair production of excited top quarks in the lepton+jets final state CMS Collaboration arXiv:1711.10949 [hep-ex].

Study of jet quenching with isolated-photon+jet correlations in PbPb and pp collisions at $\sqrt{s_{
m NN}}=$ 5.02 TeV CMS Collaboration

arXiv:1711.09738 [nucl-ex].

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

arXiv:1711.09120 [hep-ex].

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

arXiv:1711.08008 [hep-ex].

Non-Gaussian elliptic-flow fluctuations in PbPb collisions at $\sqrt{s_{_{
m NN}}}=5.02$ TeV CMS Collaboration

arXiv:1711.05594 [nucl-ex].

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

arXiv:1711.04652 [hep-ex].

Search for diboson resonances in the $2\ell 2\nu$ final state CMS Collaboration

arXiv:1711.04370 [hep-ex].

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

arXiv:1711.04299 [hep-ex].

Measurement of associated Z + charm production in proton-proton collisions at $\sqrt{s}=$ 8 TeV CMS Col-

laboration

arXiv:1711.02143 [hep-ex].

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

arXiv:1711.00752 [hep-ex].

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 CMS Collaboration arXiv:1711.00431 [hep-ex].

Search for supersymmetry in proton-proton collisions at 13 TeV using identified top quarks CMS Collaboration

arXiv:1710.11188 [hep-ex].

Measurement of quarkonium production cross sections in pp collisions at $\sqrt{s}=$ 13 TeV CMS Collaboration

arXiv:1710.11002 [hep-ex].

Pseudorapidity distributions of charged hadrons in proton-lead collisions at $\sqrt{s_{
m NN}}=5.02$ and 8.16 TeV CMS Collaboration

arXiv:1710.09355 [hep-ex].

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 CMS Collaboration arXiv:1710.09154 [hep-ex].

Measurement of b hadron lifetimes in pp collisions at $\sqrt{s}=8$ TeV CMS Collaboration arXiv:1710.08949 [hep-ex].

Measurement of differential cross sections in the ϕ^* variable for inclusive Z boson production in pp collisions at $\sqrt{s}=$ 8 TeV CMS Collaboration arXiv:1710.07955 [hep-ex].

Pseudorapidity and transverse momentum dependence of flow harmonics in pPb and PbPb collisions CMS Collaboration

arXiv:1710.07864 [nucl-ex].

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 CMS Collaboration

arXiv:1710.04960 [hep-ex].

Measurement of angular parameters from the decay $B^0 \to K^{*0} \mu^+ \mu^-$ in proton-proton collisions at $\sqrt{s}=$ 8 TeV CMS Collaboration

arXiv:1710.02846 [hep-ex].

Study of dijet events with a large rapidity gap between the two leading jets in pp collisions at $\sqrt{s}=7$ TeV CMS Collaboration

arXiv:1710.02586 [hep-ex].

Search for pair production of vector-like quarks in the bW $\overline{\rm b}$ W channel from proton-proton collisions at $\sqrt{s}=$ 13 TeV CMS Collaboration arXiv:1710.01539 [hep-ex].

Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at $\sqrt{s}=$ 13 TeV CMS Collaboration arXiv:1710.00159 [hep-ex].

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 CMS Collaboration arXiv:1709.09814 [hep-ex].

Observation of correlated azimuthal anisotropy Fourier harmonics in pp and pPb collisions at the LHC CMS Collaboration arXiv:1709.09189 [nucl-ex].

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 CMS Collaboration arXiv:1709.08908 [hep-ex].

Measurements of the pp \to ZZ production cross section and the Z \to 4ℓ branching fraction, and constraints on anomalous triple gauge couplings at $\sqrt{s}=$ 13 TeV CMS Collaboration arXiv:1709.08601 [hep-ex].

Evidence for the Higgs boson decay to a bottom quark-antiquark pair CMS Collaboration arXiv:1709.07497 [hep-ex].

Observation of top quark production in proton-nucleus collisions CMS Collaboration arXiv:1709.07411 [nucl-ex].

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 CMS Collaboration arXiv:1709.05822 [hep-ex].

Inclusive search for a highly boosted Higgs boson decaying to a bottom quark-antiquark pair CMS Collaboration arXiv:1709.05543 [hep-ex].

Search for electroweak production of charginos and neutralinos in multilepton final states in proton-proton collisions at $\sqrt{s}=$ 13 TeV CMS Collaboration arXiv:1709.05406 [hep-ex].

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 $H\to b\overline{b}$ CMS Collaboration arXiv:1709.04896 [hep-ex].

Search for supersymmetry with Higgs boson to diphoton decays using the razor variables at $\sqrt{s}=13$ TeV CMS Collaboration arXiv:1709.00384 [hep-ex].

Measurement of the splitting function in pp and PbPb collisions at $\sqrt{s_{_{\mathrm{NN}}}} =$ 5.02 TeV CMS Collaboration arXiv:1708.09429 [nucl-ex].

Challenges to the chiral magnetic wave using charge-dependent azimuthal anisotropies in pPb and PbPb collisions at $\sqrt{[b]s_{\rm NN}}=$ 5.02 TeV CMS Collaboration arXiv:1708.08901 [nucl-ex].

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 CMS Collaboration arXiv:1708.08539 [hep-ex].

Search for evidence of the type-III seesaw mechanism in multilepton final states in proton-proton collisions at sqrt(s) = 13 TeV CMS Collaboration

arXiv:1708.07962 [hep-ex].

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

arXiv:1708.07113 [nucl-ex].

Search for massive resonances decaying into WW, WZ, ZZ, qW, and qZ with dijet final states at sqrt(s) = 13 TeV CMS Collaboration

arXiv:1708.05379 [hep-ex].

Nuclear modification factor of D0 mesons in PbPb collisions at sqrt(s[NN]) = 5.02 TeV CMS Collaboration

arXiv:1708.04962 [nucl-ex].

Search for resonant and nonresonant Higgs boson pair production in the bblnulnu final state in proton-proton collisions at sqrt(s) = 13 TeV CMS Collaboration

arXiv:1708.04188 [hep-ex].

Measurement of prompt D^0 meson azimuthal anisotropy in PbPb collisions at $\sqrt{s_{NN}}=$ 5.02 TeV CMS Collaboration

arXiv:1708.03497 [nucl-ex].

Measurement of vector boson scattering and constraints on anomalous quartic couplings from events with four leptons and two jets in proton-proton collisions at sqrt(s) = 13 TeV CMS Collaboration arXiv:1708.02812 [hep-ex].

Search for vector-like light-flavor quark partners in proton-proton collisions at sqrt(s)=8 TeV CMS Collaboration

arXiv:1708.02510 [hep-ex].

Constraints on the chiral magnetic effect using charge-dependent azimuthal correlations in pPb and PbPb collisions at the LHC CMS Collaboration

arXiv:1708.01602 [nucl-ex].

Search for single production of a vector-like T quark decaying to a Z boson and a top quark in protonproton collisions at sqrt(s) = 13 TeV CMS Collaboration

arXiv:1708.01062 [hep-ex].

Observation of the Higgs boson decay to a pair of tau leptons CMS Collaboration

arXiv:1708.00373 [hep-ex].

Search for a light pseudoscalar Higgs boson produced in association with bottom quarks in pp collisions at sqrt(s)=8 TeV CMS Collaboration

arXiv:1707.07283 [hep-ex].

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 CMS Collaboration arXiv:1707.07274 [hep-ex].

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 CMS Collaboration arXiv:1707.06193 [hep-ex].

Measurement of the differential cross sections for the associated production of a W boson and jets in proton-proton collisions at sqrt(s) = 13 TeV CMS Collaboration arXiv:1707.05979 [hep-ex].

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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JHEP 1602 (2016) 122.

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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TeV

CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS and LHCb Collaborations

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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JHEP 1409 (2014) 094.

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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Phys.Lett. B736 (2014) 64.

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CMS Collaboration

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JHEP 1408 (2014) 174.

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CMS Collaboration

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JHEP 1408 (2014) 173.

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CMS and TOTEM Collaborations

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CMS Collaboration

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Phys.Rev. D90 (2014) 3, 032008.

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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Eur. Phys. J. C74 (2014) 8, 2973.

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CMS Collaboration

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CMS Collaboration

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JHEP 1406 (2014) 055.

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CMS Collaboration

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JHEP 1404 (2014) 191.

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CMS Collaboration

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JHEP 1405 (2014) 108.

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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Eur. Phys. J. C74 (2014) 7, 2951.

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CMS Collaboration

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JHEP 1402 (2014) 024, Erratum-ibid. 1402 (2014) 102.

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CMS Collaboration

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CMS Collaboration

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Phys.Rev. D89 (2014) 9, 092010.

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CMS Collaboration

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CMS Collaboration

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Phys.Rev. D90 (2014) 3, 032004.

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CMS Collaboration

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JHEP 1403 (2014) 032.

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CMS Collaboration

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CMS Collaboration

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Phys.Rev.Lett. 112 (2014) 17, 171802.

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CMS Collaboration

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Phys.Rev.Lett. 112 (2014) 161802.

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CMS Collaboration

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Phys.Rev.Lett. 112 (2014) 171801.

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CMS Collaboration

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JHEP 1402 (2014) 088.

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CMS Collaboration

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CMS Collaboration

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JHEP 1401 (2014) 163.

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at \sqrt{s} =7 TeV

CMS Collaboration

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JHEP 1406 (2014) 009.

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CMS Collaboration

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Eur. Phys. J. C74 (2014) 6, 2901.

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CMS Collaboration

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JHEP 1406 (2014) 125.

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CMS Collaboration

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CMS Collaboration

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Phys.Rev.Lett. 112 (2014) 182001.

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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JHEP 1312 (2013) 030.

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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Phys.Rev. D88 (2013) 112009.

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CMS Collaboration

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Phys.Lett. B731 (2014) 173-196.

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CMS Collaboration

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JHEP 1312 (2013) 039.

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CMS Collaboration

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JHEP 1402 (2014) 013.

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CMS Collaboration

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Phys.Lett. B730 (2014) 243-263.

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Phys.Lett. B734 (2014) 261.

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CMS Collaboration

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CMS Collaboration

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JHEP 1310 (2013) 164.

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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JHEP 1310 (2013) 167.

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CMS Collaboration

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CMS Collaboration

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Eur. Phys. J. C73 (2013) 12, 2677.

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CMS Collaboration

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Phys.Lett. B727 (2013) 381-402.

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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Eur. Phys. J. C74 (2014) 4, 2758.

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CMS Collaboration

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Eur. Phys. J. C74 (2014) 6, 2847.

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CMS Collaboration

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CMS Collaboration

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JINST 8 (2013) P11002.

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CMS Collaboration

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CMS Collaboration

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Eur. Phys. J. C73 (2013) 10, 2610.

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CMS Collaboration

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JHEP 1310 (2013) 062.

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CMS Collaboration arXiv:1305.6016 [hep-ex]. Phys.Rev. D88 (2013) 052001.

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CMS Collaboration arXiv:1305.5596 [hep-ex]. JHEP 1307 (2013) 116.

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CMS Collaboration arXiv:1305.0609 [nucl-ex]. Phys.Lett. B724 (2013) 213-240.

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CMS Collaboration arXiv:1305.0491 [hep-ex]. JHEP 1307 (2013) 122.

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CMS Collaboration arXiv:1304.7495 [hep-ex]. JHEP 1307 (2013) 163.

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CMS Collaboration

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JHEP 1307 (2013) 178.

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CMS Collaboration

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JHEP 1305 (2013) 090.

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CMS Collaboration

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CMS Collaboration

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Phys.Rev.Lett. 110 (2013) 172002.

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CMS Collaboration

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Eur. Phys. J. C73 (2013) 9, 2568.

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CMS Collaboration

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JHEP 1305 (2013) 145.

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CMS Collaboration

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Phys.Rev. D87 (2013) 11, 114015.

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CMS Collaboration

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JHEP 1304 (2013) 154.

Search for a Higgs boson decaying into a b-quark pair and produced in association with b quarks in proton-proton collisions at 7 TeV

CMS Collaboration

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Phys.Lett. B722 (2013) 207-232.

Search for new physics in final states with a lepton and missing transverse energy in pp collisions at the LHC

CMS Collaboration

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Phys.Rev. D87 (2013) 7, 072005.

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CMS Collaboration

arXiv:1302.2394 [hep-ex]. JHEP 1304 (2013) 072.

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CMS Collaboration

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Phys.Lett. B725 (2013) 36-59.

Search for pair-produced dijet resonances in four-jet final states in pp collisions at $\sqrt{s}=7$ TeV

CMS Collaboration

arXiv:1302.0531 [hep-ex].

Phys.Rev.Lett. 110 (2013) 141802.

Measurement of the $t \bar t$ production cross section in the all-jet final state in pp collisions at $\sqrt s =$ 7 TeV

CMS Collaboration

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JHEP 1305 (2013) 065.

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CMS Collaboration

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Eur. Phys. J. C73 (2013) 4, 2386.

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CMS Collaboration

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Phys.Rev. D87 (2013) 5, 052017.

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CMS Collaboration

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Phys.Lett. B721 (2013) 190-211.

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CMS Collaboration

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Eur. Phys. J. C73 (2013) 2493.

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CMS Collaboration

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Phys.Rev. D88 (2013) 5, 052017.

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CMS Collaboration

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Phys.Lett. B722 (2013) 238-261.

Search for supersymmetry in events with opposite-sign dileptons and missing transverse energy using an artificial neural network

CMS Collaboration

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Phys.Rev. D87 (2013) 072001.

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CMS Collaboration

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Eur.Phys.J. C73 (2013) 2404.

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CMS Collaboration

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Phys.Rev.Lett. 110 (2013) 081803.

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CMS Collaboration

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Phys.Rev. D87 (2013) 11, 112002.

Measurement of the $t\bar{t}$ production cross section in pp collisions at $\sqrt{s}=7$ TeV with lepton + jets final states

CMS Collaboration

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Phys.Lett. B720 (2013) 83-104.

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CMS Collaboration

arXiv:1212.6961 [hep-ex].

Phys.Rev.Lett. 111 (2013) 8, 081802.

Search for new physics in events with same-sign dileptons and b jets in pp collisions at $\sqrt{s}=8$ TeV

CMS Collaboration

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JHEP 1303 (2013) 037, Erratum-ibid. 1307 (2013) 041.

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CMS Collaboration

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Phys.Lett. B720 (2013) 63-82.

Search for contact interactions in $\mu^+\mu^-$ events in pp collisions at $\sqrt{s}=7$ TeV

CMS Collaboration

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Phys.Rev. D87 (2013) 3, 032001.

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CMS Collaboration

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Phys.Lett. B723 (2013) 280-301.

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CMS Collaboration

arXiv:1212.1838 [hep-ex].

Phys.Lett. B722 (2013) 273-294.

Search for exotic resonances decaying into WZ/ZZ in pp collisions at $\sqrt{s}=7$ TeV

CMS Collaboration arXiv:1211.5779 [hep-ex]. JHEP 1302 (2013) 036.

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CMS Collaboration arXiv:1211.4890 [hep-ex]. JHEP 1301 (2013) 063.

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CMS Collaboration arXiv:1211.4784 [hep-ex]. JHEP 1303 (2013) 111.

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CMS Collaboration arXiv:1211.4462 [hep-ex]. JINST 8 (2013) P04013.

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CMS Collaboration arXiv:1211.3338 [hep-ex]. Phys.Rev. D87 (2013) 072002.

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CMS Collaboration arXiv:1211.3143 [hep-ex]. Phys.Rev. D87 (2013) 5, 052006.

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CMS Collaboration arXiv:1211.2472 [hep-ex]. JHEP 1302 (2013) 085.

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CMS Collaboration arXiv:1211.2220 [hep-ex].

Eur. Phys. J. C73 (2013) 3, 2339.

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CMS Collaboration arXiv:1210.8115 [hep-ex]. JHEP 1301 (2013) 077.

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CMS Collaboration arXiv:1210.7619 [hep-ex]. Phys.Lett. B726 (2013) 564-586.

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CMS Collaboration arXiv:1210.7544 [hep-ex].

Eur.Phys.J. C73 (2013) 2, 2283.

Search for heavy quarks decaying into a top quark and a W or Z boson using lepton + jets events in pp collisions at \sqrt{s} = 7 TeV

CMS Collaboration

arXiv:1210.7471 [hep-ex].

JHEP 1301 (2013) 154.

Measurement of the inelastic proton-proton cross section at $\sqrt{s}=7$ TeV

CMS Collaboration

arXiv:1210.6718 [hep-ex].

Phys.Lett. B722 (2013) 5-27.

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CMS Collaboration

arXiv:1210.5629 [hep-ex].

Phys.Rev.Lett. 110 (2013) 081801.

Search for third-generation leptoquarks and scalar bottom quarks in pp collisions at $\sqrt{s}=7$ TeV

CMS Collaboration

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JHEP 1212 (2012) 055.

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CMS Collaboration

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Phys.Lett. B718 (2013) 795-814.

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CMS Collaboration

arXiv:1210.3844 [hep-ex].

JHEP 1212 (2012) 034.

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CMS Collaboration

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Phys.Lett. B720 (2013) 309-329.

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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JHEP 1212 (2012) 035.

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CMS Collaboration

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JHEP 1212 (2012) 015.

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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JHEP 1211 (2012) 067.

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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Phys.Lett. B718 (2013) 752-772.

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CMS Collaboration

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Eur. Phys. J. C72 (2012) 2189.

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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JHEP 1210 (2012) 018.

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CMS Collaboration

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JHEP 1209 (2012) 111.

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CMS Collaboration

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JHEP 1211 (2012) 172.

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CMS Collaboration

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JHEP 1208 (2012) 026.

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CMS Collaboration

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Phys.Rev.Lett. 109 (2012) 121801.

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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JHEP 1210 (2012) 087.

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CMS Collaboration

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JHEP 1207 (2012) 143.

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CMS Collaboration

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JHEP 1208 (2012) 110.

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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JHEP 1206 (2012) 169.

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CMS Collaboration

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JHEP 1208 (2012) 023.

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CMS Collaboration

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JHEP 1206 (2012) 160.

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CMS Collaboration

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JHEP 1206 (2012) 109.

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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Phys.Rev. C87 (2013) 014902.

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CMS Collaboration arXiv:1204.0821 [hep-ex]. Phys.Rev.Lett. 108 (2012) 261803.

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CMS Collaboration arXiv:1203.6810 [hep-ex]. Phys.Rev. D85 (2012) 112007.

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CMS Collaboration arXiv:1203.3976 [hep-ex]. JHEP 1204 (2012) 033.

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CMS Collaboration arXiv:1203.3458 [hep-ex]. JHEP 1206 (2012) 110.

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CMS Collaboration arXiv:1202.6396 [hep-ex]. JHEP 1204 (2012) 061.

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CMS Collaboration arXiv:1202.5535 [hep-ex]. JHEP 1205 (2012) 055.

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CMS Collaboration arXiv:1202.5022 [nucl-ex]. Phys.Lett. B712 (2012) 176-197.

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CMS Collaboration arXiv:1202.4617 [hep-ex].

JHEP 1204 (2012) 084.

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CMS Collaboration

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Phys.Lett. B710 (2012) 284-306.

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration arXiv:1202.3478 [hep-ex].

JHEP 1203 (2012) 040.

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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JHEP 1206 (2012) 036.

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JHEP 1205 (2012) 063.

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CMS Collaboration

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Eur. Phys. J. C72 (2012) 2012.

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CMS Collaboration

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CMS Collaboration

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Phys.Lett. B709 (2012) 28-49.

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CMS Collaboration

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Phys.Rev.Lett. 108 (2012) 111801.

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CMS Collaboration

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JHEP 1201 (2012) 052.

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CMS Collaboration

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JHEP 1202 (2012) 011.

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CMS Collaboration

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JHEP 1201 (2012) 133.

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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JINST 7 (2012) P01001.

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CMS Collaboration

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CMS Collaboration

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Phys.Rev.Lett. 107 (2011) 221804.

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CMS Collaboration

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Phys.Rev. D84 (2011) 052011.

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration arXiv:1107.1773 [hep-ex]. Phys.Lett. B704 (2011) 143-162.

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CMS Collaboration arXiv:1107.1279 [hep-ex]. Phys.Rev. D85 (2012) 012004.

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CMS Collaboration arXiv:1107.0330 [hep-ex]. JHEP 1109 (2011) 109.

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CMS Collaboration arXiv:1106.4775 [hep-ex]. Phys.Rev.Lett. 107 (2011) 201804.

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CMS Collaboration arXiv:1106.4503 [hep-ex]. JHEP 1108 (2011) 155.

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CMS Collaboration

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Phys.Rev. D84 (2011) 052008.

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CMS Collaboration

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JHEP 1107 (2011) 113.

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CMS Collaboration

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Phys.Rev.Lett. 107 (2011) 091802.

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CMS Collaboration

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JHEP 1107 (2011) 098.

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CMS Collaboration

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JHEP 1108 (2011) 005.

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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JHEP 1107 (2011) 049.

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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JHEP 1106 (2011) 093.

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CMS Collaboration

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CMS Collaboration

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JHEP 1107 (2011) 076.

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CMS Collaboration

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CMS Collaboration

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Phys.Rev.Lett. 107 (2011) 021802.

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Public Analysis Summaries

CMS Public Analysis Summaries in which I had a relevant contribution in reverse chronological order. This kind of document is reviewed by a board of four referees and circulated to the Collaboration before being made public:

'Higgs to WW measurements with 15.2 fb^{-1} of 13 TeV proton-proton collisions' - HIG-16-021 - [C - Higgs to WW]

'Search for Higgs boson pair production in the $b\bar{b}l\nu l\nu$ final state at $\sqrt{s}=13$ TeV' - HIG-16-024 - [R - Higgs to WW]

'Search for high mass Higgs to WW with fully leptonic decays using 2015 data' - HIG-16-023 [R - Higgs to WW]

'Search for associated production of Higgs bosons and top quarks in multilepton final states at $\sqrt{s}=13$ TeV' - HIG-16-022 [R - Higgs to WW]

'Search for associated production of a Z boson with a single top quark and for tZ flavour-changing interactions in pp collisions at sqrt(s) = 8 TeV' - TOP-12-039 [R - Single top]

'Measurement of the top quark mass in the dileptonic ttbar decay channel using the Mbl, MT2, and MAOS Mblv observables'- TOP-15-008 [R-ARC] [Chair of the review]

'First results on Higgs to WW at $\sqrt{s}=13$ TeV' - HIG-15-003 [ED- HWW]

'Combination of cross-section measurements of associated production of a single top quark and a W boson at $\sqrt{s}=8$ TeV with the ATLAS and CMS experiments' - TOP-15-019 [C]

'Search for resonant Higgs boson pair production in the bar b l
u l
u final state at $\sqrt s=13$ TeV' - HIG-16-011 [R - Higgs to WW]

'Search for ttH production in multilepton final states at $\sqrt{s}=13$ TeV' - HIG-15-008 [C, R - HWW]

'Measurement of the top quark mass from single-top production events' - TOP-15-001 [R-ARC] [Chair of the review]

'Measurement of the transverse momentum spectrum of the Higgs boson produced in pp collisions at $\sqrt{s}=8$ TeV using the $H\to WW$ decays ' (CMS-PAS-HIG-15-010) [R - Higgs to WW]

'Measurement of the top-quark mass from the b jet energy spectrum' (CMS-PAS-TOP-15-002) [R-ARC] [Chair of the review]

'Measurements of the Higgs boson production and decay rates and constraints on its couplings from a combined ATLAS and CMS analysis of the LHC pp collision data at $\sqrt{s}=$ 7 and 8 TeV' (CMS-PAS-HIG-15-002) [C]

'Measurement of the W boson helicity using $t\bar{t}$ events in the dilepton final state at $\sqrt{s}=8$ TeV' CMS-PAS-TOP-14-017 [R-ARC] [Chair of the review]

'Measurements of the differential cross section of single top-quark production in the t channel in proton-proton collisions at $\sqrt{s}=8$ TeV' (CMS-PAS-TOP-14-004) [R - Single top]

'Search for H o b ar b in association with single top quarks as a test of Higgs boson couplings' (CMS-PAS-HIG-14-015) [C]

'Combination of cross-section measurements of associated production of a single top-quark and a W boson at $\sqrt{s}=8$ TeV with the ATLAS and CMS experiments' (CMS-PAS-TOP-14-009) [C, R - Single top]

'Constraints on Anomalous HWW Interactions using Higgs boson decays to W+W- in the fully leptonic final state' (CMS-PAS-HIG-14-012) [PA, ED]

- 'Constraints on anomalous HVV interactions using H to 4l decays' (CMS-PAS-HIG-14-014) [C]
- 'Search for $t\bar{t}H$ events in the $H\to b\bar{b}$ final state using the Matrix Element Method' (CMS-PAS- HIG-14-010) [R-ARC]
- 'Search for anomalous Wtb couplings and top FCNC in t-channel single-top-quark events' (CMS-PAS-TOP-14-007) [R Single top]
- 'Search for anomalous single top quark production in association with a photon' (CMS-PAS-TOP-14-003) [R Single top]
- 'Search for new physics with monotop final states in pp collisions at $\sqrt{s}=8$ TeV' (CMS-PAS- B2G-12-022) [R-ARC] [Chair of the review]
- 'Search for associated production of a single top quark and a Higgs boson in events where the Higgs boson decays to two photons at $\sqrt{s}=8$ TeV' (CMS-PAS-HIG-14-001) [R-ARC]
- 'Projections for Top FCNC Searches in $3000fb^{-1}$ at the LHC' (CMS-PAS-FTR-13-016) [R-ARC]
- 'Sensitivity study of the prospects for searching for heavy vector-like charge 2/3 quarks at $\sqrt{s}=14$ TeV with the upgraded CMS detector' (CMS-PAS-FTR-13-026) [R-ARC]
- 'Projected improvement of the accuracy of top-quark mass measurements at the upgraded LHC' (CMS-PAS-FTR-13-017) [R-ARC]
- 'CMS reach in $B_s^0 \to \mu^+\mu^-$ and $B^0 \to \mu^+\mu^-$ branching fractions for the new LHC runs' (CMS-PAS-FTR-13-022) [R-ARC]
- 'Search for s-channel single top-quark production in pp collisions at $\sqrt{s}=8$ TeV' (CMS-PAS-TOP-13-009) [R Single top]
- 'Measurement of top quark polarization in t-channel single-top production' (CMS-PAS-TOP-13-001) [R Single top]
- 'Combination of single top-quark cross-sections measurements in the t-channel at $\sqrt{s}=8$ TeV with the ATLAS and CMS experiments' (CMS-PAS-TOP-12-002) [R Single top]
- 'Search for electroweak production of charginos and neutralinos using leptonic final states' (CMS-PAS-SUS-13-006) [R-ARC]
- 'Observation of Associated Production of a Single Top Quark and W Boson in pp Collisions at $\sqrt{s}=8$ TeV' (CMS-PAS-TOP-12-040) [PA]
- 'Search for Flavor-Changing Neutral Currents in tZ events in proton-proton collisions at $\sqrt{s}=7\text{TeV}$ ' (CMS-PAS-TOP-12-021) [R Single top]
- 'Search for electroweak production of charginos, neutralinos and sleptons using leptonic final states in pp collisions at $\sqrt(s) = 8$ TeV' (CMS-PAS-SUS-12-022) [R-ARC]
- 'Measurement of the single-top t-channel charge ratio at 8 TeV' (CMS-PAS-TOP-12-038) [R Single top]
- 'Measurement of W-helicity fractions in single top events topology' (CMS-PAS-TOP-12-020) [R Single top]
- 'Search for single top tW associated production in the dilepton decay channel in pp collisions at $\sqrt{s}=7$ TeV' (CMS-PAS-TOP-11-022) [PA, ED]
- 'Search for Physics Beyond the Standard Model in Z+MET+Jets events at the LHC' (CMS-PAS-SUS-11-019) [R-ARC]

'Measurement of the top-quark pair-production cross section in the lepton+jets channel with the use of b-tagging' (CMS-PAS-TOP-10-003) [C]

'Measurement of the top-quark pair-production cross section in the di-lepton channel at 7 TeV' (CMS-PAS-TOP-10-005) [C]

'Search for H ightarrow WW ightarrow 2l 2nu' (CMS-PAS-HIG-10-003) [C]

'Observation of WW final state' (CMS-PAS-EWK-009) [C]

'Performance of muon identification in pp collisions at $\sqrt{s}=7$ TeV' (CMS-PAS-MUO-10-002) [PA]

'Search Strategy for a Standard Model Higgs Boson Decaying to Two W Bosons in the Fully Leptonic Final State' (CMS-PAS-HIG-08-006) [PA]

'Search for the Higgs boson in the WW decay channel with the CMS experiment' (CMS-PAS-HIG-07-001) [PA]

Public top results

Public analysis summaries made public during my convenership of the top quark physics analysis group in CMS, in reverse chronological order:

'Study of the underlying event in top quark pair production at $\sqrt{s}=13$ TeV' TOP-17-015

'Measurement of jet substructure observables in t?t events from pp collisions at $\sqrt{s}=13$ TeV' TOP-17-013

'Search for the flavor-changing interactions of the top quark with the Higgs boson in $H\to b\bar b$ channel at $\sqrt s=13$ TeV' TOP-17-003

'Evidence for the standard model production of a Z boson with a single top quark in pp collisions at $\sqrt{s}=13$ TeV' TOP-16-020

'Measurement of the production cross section for single top quarks in association with W bosons in pp collisions at $\sqrt{s}=13$ TeV' TOP-17-018

'Measurement of the top quark mass with lepton+jets final states in pp collisions at $\sqrt{s}=13$ TeV' TOP-17-007

'Measurement of differential cross sections for top quark pair production and associated jets using the lepton+jets final state in proton-proton collisions at 13 TeV' TOP-17-002

'Search for the standard model production of four top quarks with same-sign and multilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV ' TOP-17-009

'Measurement of the differential tar t cross section with high- p_T top-quark jets in the all-hadronic channel at $\sqrt s=8$ TeV ' TOP-16-018

'Measurement of the differential cross sections of top quark pair production as a function of kinematic event variables in pp collisions at $\sqrt{s}=13$ TeV' TOP-16-014

'Measurement of top quark pair-production in association with a W or Z boson in pp collisions at 13 TeV' TOP-17-005

'Measurement of the inclusive $t\bar{t}$ cross section at $\sqrt{s}=5.02$ TeV' TOP-16-023

'Measurement of the top quark mass with muon+jets final states in pp collisions at \sqrt{s} = 13 TeV' (TOP-16-022)

'Investigations of the impact of the parton shower tuning in Pythia 8 in the modelling of $t\bar{t}$ at \sqrt{s} =8 and 13 TeV' (TOP-16-021)

'Combinations of the CMS alternative technique measurements of the top quark mass' (TOP-15-012)

'Bounding the top quark width using final states with two charged leptons and two jets at $\sqrt{s}=13$ TeV ' (TOP-16-019)

'Measurement of the $t\bar{t}+\gamma$ production cross-section in pp collisions at $\sqrt{s}=8$ TeV' (TOP-14-008)

'Measurement of the jet mass distribution in boosted $t\bar{t}$ production at $\sqrt{s}=8$ TeV' (TOP-15-015)

Internal Analysis Notes

Internal notes that I am an author of in reverse chronological order:

CMS AN-2015/300 - 'Higgs Boson decaying to WW in the leptonic final state at 13 TeV' (HWW team) [ED]

CMS AN-2015/299 - 'Common analysis object definitions and triggers efficiencies for the H \rightarrow WW Run-2 analysis' (HWW team) [ED]

CMS AN-2015/321 - 'Search for ttH in multilepton final states at 13 TeV' (Anne-Catherine Le Bihan et al.)
[C]

CMS AN-2013/113 - 'Search for $H \rightarrow bb$ in association with single top quarks as a test of Higgs boson couplings' (*A. Anuar, A. Bean et al.*) [C]

CMS AN-2014/083 - 'Spin Parity of the Higgs Boson and Tensor Structure of the HWW interaction in the $H\rightarrow WW$ dileptonic decay channel' (*Rebeca Gonzalez Suarez et al.*) [PA-ED]

CMS AN-2013/096 - 'Study of associated Higgs boson (ZH) production in the three leptons, two jets final state at 7 and 8 TeV' (*Rebeca Gonzalez Suarez et al.*) [PA-ED]

CMS AN-2012/458 - 'Single top associated tW production at 8 TeV' (Rebeca Gonzalez Suarez et al.) [PA-ED]

CMS AN-2012/060 - 'Search for single top tW production using a boosted decision tree method in the dilepton channel' (*Rebeca Gonzalez Suarez et al.*) [C]

CMS AN-2011/465 - 'Search for the Single top tW associated production in the dilepton decay channel with the full 2011 dataset' (*Rebeca Gonzalez Suarez et al.*) [PA-ED]

CMS AN-2011/253 - 'Search for the Single top tW associated production in the dilepton decay channel' (*Rebeca Gonzalez Suarez et al.*) [PA-ED]

CMS AN2010/281 - 'A measurement of $t\bar{t}$ cross section in early 7 TeV data using the semileptonic topology: electron plus jets with one or more b-tags, using 36 pb^{-1} of CMS data.' (M. Barrett, F. Blekman et al.) [C-ED]

CMS AN2010/411 - 'Search for Higgs Boson Decays to Two W Bosons in the Fully Leptonic Final State at $\sqrt(s) = 7$ TeV' (*G. Bauer, J. Bendavid et al.*) [C]

CMS AN2010/344 - 'First Measurement of pp \to WW Production Cross-Section at $\sqrt(s)=7$ TeV' (*W. Andrews, D. Barge et al.*) [C]

CMS AN2010/406 - 'Measurement of the $t\bar{t}$ cross section in the dilepton final state using b-tagging at $\sqrt{s}=7~TeV$ ' (J.~Brochero,~A.~Calder'on~et~al.) [C-ED]

CMS AN 2010/008 - 'The CMS physics reach for searches at 7 TeV' (CMS Collaboration) [PA]

CMS AN 2009/139 - 'Search Strategy for a Standard Model Higgs Boson Decaying to Two W Bosons in the Fully Leptonic Final State at $\sqrt{s}=10$ TeV' (*G. Bauer, J. Bendavid et al.*)

CMS AN-2009/185 - 'Analysis strategy for the measurement of the $WW \to \mu\nu\mu\nu$ cross-section with 200 pb^{-1} at center of mass energy of 10 TeV' (*C.Jorda, R. Villar et al.*) [C]

CMS AN-2009/025 - 'Analysis strategy for the measurement of the $WW \to \mu\nu\mu\nu$ cross-section' (*C.Jorda, R. Villar et al.*) [C]

CMS AN-2009/020 - 'Projected exclusion limits on the SM Higgs boson cross sections obtained by combining

the H \rightarrow WW and ZZ decay channels' (S. Baffioni, C. Botta et al.) [PA]

CMS AN-2008/074 - 'Measurement of muon charge asymmetry in the $W \to \mu\nu$ channel' (*J. Alcaraz, M.I. Josa et al.*) [C]

CMS AN-2008/039 - 'Search Strategy for a Standard Model Higgs Boson Decaying to Two W Bosons in the Fully Leptonic Final State' (*C. Charlot, J. Cuevas et al.*) [PA]

CMS AN-2007/037 - 'Search for the Higgs boson in the WW decay channel with the CMS experiment' (C. Charlot, J. Cuevas et al.) [PA]

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