Rebeca Gonzalez Suarez - Publication List

Contents

Metrics, $1 \bullet$ Main publications in peer-reviewed journals, $2 \bullet$ Publications from top, $4 \bullet$ Other, $5 \bullet$ Conference proceedings, $64 \bullet$ Public Analysis Summaries, $65 \bullet$ Public top results, $68 \bullet$ Internal Analysis Notes, $69 \cdot$

Metrics

As of September 28, 2017:

	Citeable papers	Published only
Number of papers	695	629
Number of citations	65417	65115
Average citations per paper	94.1	103.5
h index	120	120

Breakdown of papers by citations:

	Citeable papers	Published only
Renowned papers (500+)	12	12
Famous papers (250-499)	27	27
Very well-known papers (100-249)	123	123
Well-known papers (50-99)	172	170
Known papers (10-49)	235	233
Less known papers (1-9)	100	63
Unknown papers (0)	26	1

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 have a longer explanation of why they are chosen as such.

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 20.

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 242 (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]

 \star 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 51.

* 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 $\underline{\bf 138}$ (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 328 (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 131 (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 7502 (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 $\underline{169}$ (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 $\underline{\mathbf{130}}$ (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 $\underline{168}$ (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:

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, Submitted to 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, Submitted to 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, Submitted to JHEP, 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, Submitted to Phys. Lett. B, 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:

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 $\sqrt{[b]s_{_{
m NN}}}=$ 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 protonproton 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 proton-proton 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].

Search for natural supersymmetry in events with top quark pairs and photons in pp collisions at sqrt(s) = 8 TeV CMS Collaboration arXiv:1707.03325 [hep-ex].

Search for direct production of supersymmetric partners of the top quark in the all-jets final state in protonproton collisions at sqrt(s) = 13 TeV CMS Collaboration arXiv:1707.03316 [hep-ex].

Search for Higgs boson pair production in events with two bottom quarks and two tau leptons in proton-proton collisions at sqrt(s) = 13 TeV CMS Collaboration arXiv:1707.02909 [hep-ex].

Search for heavy resonances that decay into a vector boson and a Higgs boson in hadronic final states at sqrt(s)=13 TeV CMS Collaboration arXiv:1707.01303 [hep-ex].

Constraints on anomalous Higgs boson couplings using production and decay information in the four-lepton final state CMS Collaboration arXiv:1707.00541 [hep-ex].

A search for Higgs boson pair production in the bbtautau final state in proton-proton collisions at sqrt(s) = 8 TeV CMS Collaboration arXiv:1707.00350 [hep-ex].

Measurement of charged pion, kaon, and proton production in proton-proton collisions at sqrt(s) = 13 TeV CMS Collaboration arXiv:1706.10194 [hep-ex].

Measurements of properties of the Higgs boson decaying into the four-lepton final state in pp collisions at sqrt(s) = 13 TeV CMS Collaboration arXiv:1706.09936 [hep-ex].

Search for electroweak production of charginos and neutralinos in WH events in proton-proton collisions at sqrt(s) = 13 TeV CMS Collaboration arXiv:1706.09933 [hep-ex].

Search for a heavy composite Majorana neutrino in the final state with two leptons and two quarks at sqrt(s) = 13 TeV CMS Collaboration arXiv:1706.08578 [hep-ex].

Exclusive and semi-exclusive pi+pi- production in proton-proton collisions at sqrt(s) = 7 TeV CMS Collaboration arXiv:1706.08310 [hep-ex].

Suppression of excited Upsilon states relative to the ground state in PbPb collisions at sqrt(sNN) = 5.02 TeV CMS Collaboration arXiv:1706.05984 [hep-ex].

Measurements of jet charge with dijet events in pp collisions at $\sqrt{s}=8$ TeV CMS Collaboration arXiv:1706.05868 [hep-ex].

Particle-flow reconstruction and global event description with the CMS detector CMS Collaboration arXiv:1706.04965 [physics.ins-det].

Search for top squark pair production in pp collisions at sqrt(s)=13 TeV using single lepton events CMS Collaboration

arXiv:1706.04402 [hep-ex].

Searches for W' bosons decaying to a top quark and a bottom quark in proton-proton collisions at 13 TeV CMS Collaboration

arXiv:1706.04260 [hep-ex].

Search for new physics in the monophoton final state in proton-proton collisions at sqrt(s) = 13 TeV CMS Collaboration

arXiv:1706.03794 [hep-ex].

Search for pair production of vector-like T and B quarks in single-lepton final states using boosted jet substructure techniques at sqrt(s) = 13 TeV CMS Collaboration

arXiv:1706.03408 [hep-ex].

Search for dark matter produced in association with heavy-flavor quarks in proton-proton collisions at sqrt(s)=13 TeV CMS Collaboration

arXiv:1706.02581 [hep-ex].

Search for top quark partners with charge 5/3 in proton-proton collisions at sqrt(s) = 13 TeV CMS Collaboration

arXiv:1705.10967 [hep-ex].

Search for low mass vector resonances decaying to quark-antiquark pairs in proton-proton collisions at sqrt(s) = 13 TeV CMS Collaboration

arXiv:1705.10532 [hep-ex].

Combination of searches for heavy resonances decaying to WW, WZ, ZZ, WH, and ZH boson pairs in proton-proton collisions at sqrt(s) = 8 and 13 TeV CMS Collaboration

arXiv:1705.09171 [hep-ex].

Measurement of B+/- meson differential production cross sections in pp and PbPb collisions at sqrt(s[NN]) = 5.02 TeV CMS Collaboration

arXiv:1705.04727 [hep-ex].

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 CMS Collaboration

arXiv:1705.04673 [hep-ex].

Search for new phenomena with the MT2 variable in the all-hadronic final state produced in proton-proton collisions at sqrt(s) = 13 TeV CMS Collaboration

arXiv:1705.04650 [hep-ex].

Search for charged Higgs bosons produced in vector boson fusion processes and decaying into a pair of W and Z bosons using proton-proton collisions at sqrt(s) = 13 TeV CMS Collaboration

arXiv:1705.02942 [hep-ex].

Measurement of the triple-differential dijet cross section in proton-proton collisions at sqrt(s) = 8 TeV

and constraints on parton distribution functions CMS Collaboration

arXiv:1705.02628 [hep-ex].

Search for black holes in high-multiplicity final states in proton-proton collisions at sqrt(s) = 13 TeV CMS

Collaboration

arXiv:1705.01403 [hep-ex].

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

arXiv:1704.07781 [hep-ex].

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 CMS Collaboration arXiv:1704.07323 [hep-ex].

Search for $t\bar{t}$ resonances in highly-boosted lepton+jets and fully hadronic final states in proton-proton collisions at $\sqrt{s}=$ 13 TeV CMS Collaboration arXiv:1704.03366 [hep-ex].

Measurements of the $pp \to W\gamma\gamma$ and $pp \to Z\gamma\gamma$ cross sections and limits on anomalous quartic gauge couplings at $\sqrt{s}=$ 8 TeV CMS Collaboration arXiv:1704.00366 [hep-ex].

Search for new physics with dijet angular distributions in proton-proton collisions at $\sqrt{s}=13$ TeV CMS Collaboration arXiv:1703.0986 [hep-ex].

Search for a heavy resonance decaying to a top quark and a vector-like top quark at sqrt(s) = 13 TeV CMS Collaboration arXiv:1703.06352 [hep-ex].

Search for anomalous couplings in semileptonic WW/WZ to I nu qqbar production in proton-proton collisions at $\sqrt{s}=8$ TeV CMS Collaboration arXiv:1703.06095 [hep-ex].

Search for associated production of dark matter with a Higgs boson decaying to b-bbar or gamma-gamma at $\sqrt{s}=$ 13 TeV CMS Collaboration arXiv:1703.05236 [hep-ex].

Search for the 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 CMS Collaboration arXiv:1703.03995 [hep-ex].

Search for dark matter produced with an energetic jet or a hadronically decaying W or Z boson at \sqrt{s} = 13 TeV CMS Collaboration arXiv:1703.01651 [hep-ex].

Measurement of the cross section for electroweak production of Z gamma in association with two jets and constraints on anomalous quartic gauge couplings in proton-proton collisions at sqrt(s) = 8 TeV CMS Collaboration

arXiv:1702.03025 [hep-ex].

Measurement of prompt and nonprompt J/psi production in pp and pPb collisions at sqrt(s[NN]) = 5.02 TeV CMS Collaboration arXiv:1702.01462 [nucl-ex].

Study of jet quenching with Z+jet correlations in PbPb and pp collisions at sqrt(s[NN]) = 5.02 TeV CMS Collaboration arXiv:1702.01060 [nucl-ex].

Azimuthal anisotropy of charged particles with transverse momentum up to 100 GeV in PbPb collisions at sqrt(s[NN]) = 5.02 TeV CMS Collaboration arXiv:1702.00630 [hep-ex].

Measurement of the inclusive energy spectrum in the very forward direction in proton-proton collisions

at sqrt(s)=13 TeV CMS Collaboration arXiv:1701.08695 [hep-ex].

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 CMS Collaboration arXiv:1701.08328 [hep-ex].

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 CMS Collaboration arXiv:1701.07409 [hep-ex].

Search for supersymmetry with multiple charged leptons in proton-proton collisions at sqrt(s) = 13 TeV CMS Collaboration arXiv:1701.06940 [hep-ex].

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 CMS Collaboration arXiv:1701.02042 [hep-ex].

Search for light bosons in decays of the 125 GeV Higgs boson in proton-proton collisions at $\sqrt{s}=8$ TeV CMS Collaboration arXiv:1701.02032 [hep-ex].

Mechanical stability of the CMS strip tracker measured with a laser alignment system CMS Collaboration arXiv:1701.02022 [physics.ins-det].

Search for supersymmetry in the all-hadronic final state using top quark tagging in pp collisions at \sqrt{s} = 13 TeV CMS Collaboration arXiv:1701.01954 [hep-ex].

Search for leptophobic Z' bosons decaying into four-lepton final states in proton-proton collisions at \sqrt{s} =8 TeV CMS Collaboration arXiv:1701.01345 [hep-ex].

Search for high-mass Z gamma resonances at \sqrt{s} =8 and 13 TeV using jet substructure techniques CMS Collaboration arXiv:1612.09516 [hep-ex].

Search for heavy gauge W' boson in events with an energetic lepton and large missing transverse momentum at \sqrt{s} =13 TeV CMS Collaboration arXiv:1612.09274 [hep-ex].

Measurement of electroweak-induced production of W gamma with two jets in pp collisions at $\sqrt{s}=$ 8 TeV and constraints on anomalous quartic gauge couplings CMS Collaboration arXiv:1612.09256 [hep-ex].

Search for massive resonances decaying into WW, WZ or ZZ bosons in proton-proton collisions at $\sqrt{s}=$ 13 TeV CMS Collaboration arXiv:1612.09159 [hep-ex].

Measurements of the charm jet cross section and nuclear modification factor in pPb collisions at $\sqrt{s[NN]} =$ 5.02 TeV CMS Collaboration arXiv:1612.08972 [nucl-ex].

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 CMS Collaboration

arXiv:1612.05336 [hep-ex].

Searches for pair production for third-generation squarks in sqrt(s)=13 TeV pp collisions CMS Collaboration

arXiv:1612.03877 [hep-ex].

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 CMS Collaboration arXiv:1612.01190 [hep-ex].

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 CMS Collaboration arXiv:1612.00999 [hep-ex].

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

arXiv:1611.06604 [hep-ex].

Search for heavy resonances decaying to tau lepton pairs in proton-proton collisions at $\sqrt{s}=$ 13 TeV CMS Collaboration

arXiv:1611.06594 [hep-ex].

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

arXiv:1611.03844 [hep-ex].

Search for dijet resonances in proton-proton collisions at $\sqrt{s}=13$ TeV and constraints on dark matter and other models CMS Collaboration

arXiv:1611.03568 [hep-ex].

Charged-particle nuclear modification factors in PbPb and pPb collisions at sqrt(s[NN]) = 5.02 TeV CMS Collaboration

arXiv:1611.01664 [hep-ex].

Suppression of Upsilon(1S), Upsilon(2S), and Upsilon(3S) quarkonium states in PbPb collisions at sqrt(s[NN]) = 2.76 TeV CMS Collaboration arXiv:1611.01510 [hep-ex].

Relative modification of prompt Psi(2S) and J/psi yields from pp to PbPb collisions at sqrt(s[NN]) = 5.02 TeV CMS Collaboration

arXiv:1611.01438 [hep-ex].

A search for new phenomena in pp collisions at $\sqrt{s}=13$ TeV in final states with missing transverse momentum and at least one jet using the α_T variable CMS Collaboration

arXiv:1611.00338 [hep-ex].

Searches for invisible decays of the Higgs boson in pp collisions at \sqrt{s} =7, 8, and 13 TeV CMS Collaboration

arXiv:1610.09218 [hep-ex].

Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos, and b quarks CMS Collaboration

arXiv:1610.08066 [hep-ex].

Observation of Upsilon(1S) pair production in proton-proton collisions at sqrt(s) = 8 TeV CMS Collaboration

arXiv:1610.07095 [hep-ex].

Search for R-parity violating supersymmetry with displaced vertices in proton-proton collisions at sqrt(s)=8 TeV CMS Collaboration

arXiv:1610.05133 [hep-ex].

Search for electroweak production of charginos in final states with two tau leptons in pp collisions at sqrt(s) = 8 TeV CMS Collaboration

arXiv:1610.04870 [hep-ex].

Measurements of differential cross sections for associated production of a W boson and jets in protonproton collisions at sqrt(s)=8 TeV CMS Collaboration

arXiv:1610.04222 [hep-ex].

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 CMS Collaboration

arXiv:1610.02960 [hep-ex].

Suppression and azimuthal anisotropy of prompt and nonprompt J/psi production in PbPb collisions at sqrt(s[NN]) = 2.76 TeV CMS Collaboration

arXiv:1610.00613 [nucl-ex].

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

arXiv:1610.00263 [nucl-ex].

Search for supersymmetry in events with one lepton and multiple jets in proton-proton collisions at sqrt(s) = 13 TeV CMS Collaboration

arXiv:1609.09386 [hep-ex].

Search for long-lived charged particles in proton-proton collisions at $\sqrt{s} = 13$ TeV CMS Collaboration

arXiv:1609.08382 [hep-ex].

Phys.Rev. D94 (2016) no.11, 112004.

Inclusive search for supersymmetry using razor variables in pp collisions at $\sqrt{s}=$ 13 TeV CMS Collaboration

arXiv:1609.07658 [hep-ex].

Measurement of the WZ production cross section in pp collisions at $\sqrt{s}=7$ and 8 TeV and search for anomalous triple gauge couplings at $\sqrt{s}=8$ TeV

CMS Collaboration

arXiv:1609.05721 [hep-ex].

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

CMS Collaboration

arXiv:1609.05391 [hep-ex].

Measurement of inclusive jet cross-sections in pp and PbPb collisions at $\sqrt{s_{NN}}$ =2.76 TeV

CMS Collaboration

arXiv:1609.05383 [nucl-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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JHEP 1611 (2016) 055.

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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 1612 (2016) 123.

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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 1612 (2016) 013.

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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 1608 (2016) 119.

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CMS Collaboration

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JHEP 1612 (2016) 088.

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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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Eur. Phys. J. C76 (2016) no.8, 469.

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CMS Collaboration

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Eur. Phys. J. C76 (2016) no.8, 460.

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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 1603 (2016) 125.

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CMS Collaboration

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CMS Collaboration

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JHEP 1512 (2015) 178.

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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 1601 (2016) 166.

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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 1511 (2015) 189.

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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 1509 (2015) 137.

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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.Rev. D92 (2015) 7, 072006.

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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JHEP 1511 (2015) 071.

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CMS Collaboration

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CMS Collaboration

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Collaboration

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CMS Collaboration

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JHEP 1509 (2015) 201.

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CMS Collaboration

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CMS Collaboration

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Phys.Lett. B750 (2015) 154-175.

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CMS Collaboration

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CMS Collaboration

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JHEP 1506 (2015) 121.

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CMS Collaboration

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JHEP 1507 (2015) 042.

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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. C75 (2015) 10, 511.

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

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

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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 1310 (2013) 164.

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CMS Collaboration

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Phys.Lett. B727 (2013) 57-76.

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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 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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Phys.Rev. D86 (2012) 052013.

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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.Rev.Lett. 109 (2012) 171803.

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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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CMS Collaboration

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CMS Collaboration

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JHEP 1209 (2012) 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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Phys.Lett. B714 (2012) 158-179.

Search for high mass resonances decaying into τ^- lepton pairs in pp collisions at $\sqrt{s}=7~\text{TeV}$

CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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Measurement of jet fragmentation into charged particles in pp and PbPb collisions at $\sqrt{s_{NN}}=2.76$ TeV

CMS Collaboration

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JHEP 1210 (2012) 087.

Search for a light charged Higgs boson in top quark decays in pp collisions at $\sqrt{s}=7$ TeV

CMS Collaboration

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JHEP 1207 (2012) 143.

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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 1208 (2012) 023.

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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JHEP 1209 (2012) 029, Erratum-ibid. 1403 (2014) 132.

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CMS Collaboration

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Phys.Rev.Lett. 109 (2012) 022301.

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CMS Collaboration

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JHEP 1206 (2012) 126.

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CMS Collaboration

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Phys.Rev. C87 (2013) 014902.

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CMS Collaboration

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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 bb 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:

'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 $t\bar{t}$ 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]

September 28, 2017