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, $80 \bullet$ Public Analysis Summaries, $81 \bullet$ Public top results, $84 \bullet$ Internal Analysis Notes, 85.

Metrics

As of October 27, 2016:

	Citeable papers	Published only
Number of papers	582	530
Number of citations	53122	52910
Average citations per paper	r 91.3	99.8
h index	111	111

Breakdown of papers by citations:

	Citeable papers	Published only
Renowned papers (500+)	9	9
Famous papers (250-499)	21	21
Very well-known papers (100-249)	100	100
Well-known papers (50-99)	157	156
Known papers (10-49)	198	196
Less known papers (1-9)	72	45
Unknown papers (0)	25	3

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

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.

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 (Serguei Chatrchyan et al.), arXiv:1606.01522, Submitted to J. High Energy Phys [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 (Serguei Chatrchyan et al.), arXiv:1605.09047, Accepted by Phys. Lett. B. [R - ARC]

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 (Serguei Chatrchyan et al.)*, 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 (Serguei Chatrchyan et al.), 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 (Serguei Chatrchyan et al.), arXiv:1511.03951, JHEP 04 (2016) 035 [R - Single Top]

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

 \star 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 (Serguei Chatrchyan et al.), arXiv:1509.08159, JHEP06(2016)177 [C, R-ARC] Cited by 11.

Measurement of the Charge Asymmetry in Top Quark Pair Production in pp Collisions at $\sqrt{s}=8$ TeV using a Template Method, CMS Collaboration (Serguei Chatrchyan et al.), 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 (Serguei Chatrchyan et al.)*, 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 (Serguei Chatrchyan et al.), 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 pro-

ton collisions at 7 and 8 TeV, CMS Collaboration (Serguei Chatrchyan et al.), arXiv:1411.3441, Phys. Rev. D 92, 012004 (2015) [PA, ED] Cited by 152 (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 (Serguei Chatrchyan et al.), arXiv:1410.1154, JHEP01(2015)053 [R - Single Top]

- * Search for monotop signatures in proton-proton collisions at \sqrt{s} =8 TeV, CMS Collaboration (Serguei Chatrchyan et al.), arXiv:1410.1149, Phys. Rev. Lett. 114, 101801 (2015) [R Chair of the Review] Cited by 41.
- \star Observation of the associated production of a single top quark and a W boson in pp collisions at $\sqrt{s}=8$ TeV, CMS Collaboration (Serguei Chatrchyan et al.), arXiv:1401.2942, Phys. Rev. Lett. 112, 231802. [PA] Cited by $\underline{105}$ (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 (Serguei Chatrchyan et al.), 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 (Serguei Chatrchyan et al.), 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 (Serguei Chatrchyan et al.), arXiv:1312.1129, JHEP 01(2014)096 [PA] Cited by 285 (250+).

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

- * Evidence for associated production of a single top quark and W boson in pp collisions at 7 TeV, CMS Collaboration (Serguei Chatrchyan et al.), arXiv:1209.3489, Phys. Rev. Lett. 110, 022003 (2013) [PA, ED]
 Cited by 121 (100+).
- \star 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 (Serguei Chatrchyan et al.), arXiv:1202.1489, Phys.Lett. B 710 (2012) 91-113 [C] Cited by 160 (100+).

Search for electroweak production of charginos and neutralinos using leptonic final states in pp collisions at $\sqrt(s) = 7$ TeV, CMS Collaboration (Serguei Chatrchyan et al.),arXiv:1209.6620,

- * 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 (Serguei Chatrchyan et al.), arXiv:1204.3774, Physics Letters B 716 (2012) 260-284 [R-ARC] Cited by 50 (50+).
- \star 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 (Serguei Chatrchyan et al.), Phys.Rev. D84 (2011) 092004, arXiv:1108.3773 [C] Cited by 126 (100+).
- * Measurement of W^+W^- Production and Search for the Higgs Boson in pp Collisions at $\sqrt{s}=7$ TeV, CMS Collaboration (Serguei Chatrchyan et al.), Phys.Lett. B 699 (2011) 25-47, arXiv:1102.5429 [C] Cited by $\underline{166}$ (100+).

Publications from top

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

Search for top quark decays via Higgs-boson-mediated flavor-changing neutral currents in pp collisions at sqrt(s) = 8 TeV, CMS Collaboration (Vardan Khachatryan et al.), Submitted to JHEP, 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 (Vardan Khachatryan et al.), Submitted to Phys. Rev. D, arXiv:1610.04191

Cross section measurement of t-channel single top quark production in pp collisions at sqrt(s) = 13 TeV, CMS Collaboration (Serguei Chatrchyan et al.), Submitted to Phys. Lett. B., arXiv:1610.00678

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

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 proton-proton 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].

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].

Measurement and QCD analysis of double-differential inclusive jet cross-sections in pp collisions at $\sqrt{s}=$ 8 TeV and ratios to 2.76 and 7 TeV

CMS Collaboration arXiv:1609.05331 [hep-ex].

Studies of inclusive four-jet production with two b-tagged jets in proton-proton collisions at 7 TeV

CMS Collaboration arXiv:1609.03489 [hep-ex].

Search for high-mass diphoton resonances in proton-proton collisions at $13\ \text{TeV}$ and combination with $8\ \text{TeV}$ search

CMS Collaboration arXiv:1609.02507 [hep-ex].

Decomposing transverse momentum balance contributions for quenched jets in PbPb collisions at sqrt(s[NN]) = 2.76 TeV

CMS Collaboration arXiv:1609.02466 [nucl-ex].

The CMS trigger system

CMS Collaboration arXiv:1609.02366 [physics.ins-det].

Measurement of the total and differential inclusive B(+) hadron cross sections in pp collisions at $sqrts=13~{\rm TeV}$

CMS Collaboration arXiv:1609.00873 [hep-ex].

Measurement of the production cross section of the W boson in association with two

b jets in pp collisions at sqrts = 8 **TeV**

CMS Collaboration arXiv:1608.07561 [hep-ex].

Measurement of the mass of the top quark in decays with a J/psi meson in pp collisions at 8 TeV

CMS Collaboration arXiv:1608.03560 [hep-ex].

Search for new physics in events with high jet multiplicity and low missing transverse momentum in proton-proton collisions at $\sqrt{s}=8$ TeV

CMS Collaboration arXiv:1608.01224 [hep-ex].

Measurement of the ZZ production cross section and $Z\to \ell^+\ell^-\ell'^+\ell'^-$ branching fraction in pp collisions at $\sqrt{s}=13$ TeV

CMS Collaboration arXiv:1607.08834 [hep-ex].

Measurement of electroweak production of a W boson and two forward jets in proton-proton collisions at $\sqrt{s}=8~\text{TeV}$

CMS Collaboration arXiv:1607.06975 [hep-ex].

Measurement of the WZ production cross section in pp collisions at $\sqrt{s}=13$ TeV CMS Collaboration arXiv:1607.06943 [hep-ex].

Search for dark matter in proton-proton collisions at 8 TeV with missing transverse momentum and vector boson tagged jets

CMS Collaboration arXiv:1607.05764 [hep-ex].

Jet energy scale and resolution in the CMS experiment in pp collisions at 8 TeV CMS Collaboration arXiv:1607.03663 [hep-ex].

Search for lepton flavour violating decays of the Higgs boson to e tau and e mu in proton-proton collisions at sqrt(s)=8 TeV

CMS Collaboration arXiv:1607.03561 [hep-ex].

Observation of the decay $B^+ \to \psi(2S)\phi(1020)K^+$ in pp collisions at $\sqrt{s}=$ 8 TeV CMS Collaboration arXiv:1607.02638 [hep-ex].

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

CMS Collaboration

arXiv:1607.00915 [hep-ex].

Measurement of the differential cross sections for top quark pair production as a function of kinematic event variables in pp collisions at \sqrt{s} = 7 and 8 TeV

CMS Collaboration

arXiv:1607.00837 [hep-ex].

Searches for R-parity-violating supersymmetry in pp collisions at sqrt(s)=8 TeV in final states with 0-4 leptons

CMS Collaboration

arXiv:1606.08076 [hep-ex].

Evidence for collectivity in pp collisions at the LHC

CMS Collaboration

arXiv:1606.06198 [nucl-ex].

Measurement of the transverse momentum spectra of weak vector bosons produced in proton-proton collisions at $\sqrt{s}=$ 8 TeV

CMS Collaboration

arXiv:1606.05864 [hep-ex].

Search for resonant production of high-mass photon pairs in proton-proton collisions at sqrt(s) = 8 and 13 TeV

CMS Collaboration

arXiv:1606.04093 [hep-ex].

Phenomenological MSSM interpretation of CMS searches in pp collisions at sqrt(s) = 7 and 8 TeV

CMS Collaboration

arXiv:1606.03577 [hep-ex].

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

By ATLAS and CMS Collaborations

arXiv:1606.02266 [hep-ex].

Search for dark matter and supersymmetry with a compressed mass spectrum in the vector boson fusion topology in proton-proton collisions at sqrt(s) = 8 TeV

CMS Collaboration

arXiv:1605.09305 [hep-ex].

Search for top squark pair production in compressed-mass-spectrum scenarios in proton-

proton collisions at sqrt(s) = 8 TeV using the alphaT variable

CMS Collaboration

arXiv:1605.08993 [hep-ex].

Coherent J/Psi photoproduction in ultra-peripheral PbPb collisions at sqrt(s[NN]) = 2.76 TeV with the CMS experiment

CMS Collaboration

arXiv:1605.06966 [nucl-ex].

Multiplicity and rapidity dependence of strange hadron production in pp, pPb, and PbPb collisions at the LHC

CMS Collaboration

arXiv:1605.06699 [nucl-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:1605.04608 [hep-ex].

Measurement of the double-differential inclusive jet cross section in proton-proton collisions at sqrt(s) = 13 TeV

CMS Collaboration

arXiv:1605.04436 [hep-ex].

Search for new physics in same-sign dilepton events in proton-proton collisions at sqrt(s) = 13 TeV

CMS Collaboration

arXiv:1605.03171 [hep-ex]

Measurement of the integrated and differential t-tbar production cross sections for high-pt top quarks in pp collisions at sqrt(s) = 8 TeV

CMS Collaboration

arXiv:1605.00116 [hep-ex].

Search for narrow resonances in dijet final states at sqrt(s)=8 TeV with the novel CMS technique of data scouting

CMS Collaboration

arXiv:1604.08907 [hep-ex].

Pseudorapidity dependence of long-range two-particle correlations in pPb collisions at sqrt(s[NN])=5.02 TeV

CMS Collaboration

arXiv:1604.05347 [nucl-ex].

Search for lepton flavour violating decays of heavy resonances and quantum black holes to an e-mu pair in proton-proton collisions at sqrt(s) = 8 TeV

CMS Collaboration arXiv:1604.05239 [hep-ex].

Evidence for exclusive gamma-gamma to W+W- production and constraints on anomalous quartic gauge couplings at sqrt(s) = 7 and 8 TeV

CMS Collaboration arXiv:1604.04464 [hep-ex].

Search for dark matter particles in proton-proton collisions at sqrt(s) = 8 TeV using the razor variables

CMS Collaboration arXiv:1603.08914 [hep-ex].

Search for two Higgs bosons in final states containing two photons and two bottom quarks CMS Collaboration

arXiv:1603.06896 [hep-ex].

Measurement of the top quark mass using charged particles in collisions at sqrt(s) = 8 TeV

CMS Collaboration arXiv:1603.06536 [hep-ex].

Measurements of t t-bar charge asymmetry using dilepton final states in pp collisions at sqrt(s) = 8 TeV

CMS Collaboration arXiv:1603.06221 [hep-ex].

Search for new physics with the MT2 variable in all-jets final states produced in pp collisions at sqrt(s) = 13 TeV

CMS Collaboration arXiv:1603.04053 [hep-ex].

Search for neutral resonances decaying into a Z boson and a pair of b jets or tau leptons

CMS Collaboration arXiv:1603.02991 [hep-ex].

Y(nS) Polarizations Versus Particle Multiplicity in pp Collisions at $\sqrt{s}=7$ TeV CMS Collaboration

arXiv:1603.02913 [hep-ex].

Measurement of the t-tbar production cross section in the e-mu channel in proton-proton collisions at sqrt(s) = 7 and 8 TeV

CMS Collaboration arXiv:1603.02303 [hep-ex].

Search for heavy Majorana neutrinos in e+/-e+/- plus jets and e+/- mu+/- plus jets events in proton-proton collisions at sqrt(s) = 8 TeV

CMS Collaboration arXiv:1603.02248 [hep-ex].

Measurement of the differential cross section and charge asymmetry for inclusive pp to W + X production at sqrt(s) = 8 TeV

CMS Collaboration arXiv:1603.01803 [hep-ex].

Search for direct pair production of supersymmetric top quarks decaying to all-hadronic final states in pp collisions at sqrt(s) = 8 TeV

CMS Collaboration arXiv:1603.00765 [hep-ex].

Measurements of the t-tbar production cross section in lepton+jets final states in pp collisions at 8 TeV and ratio of 8 to 7 TeV cross sections

CMS Collaboration arXiv:1602.09024 [hep-ex].

Search for supersymmetry in electroweak production with photons and large missing transverse energy in pp collisions at $\sqrt{s}=$ 8 TeV

CMS Collaboration arXiv:1602.08772 [hep-ex].

Search for heavy resonances decaying to two Higgs bosons in final states containing four b quarks

CMS Collaboration arXiv:1602.08762 [hep-ex].

Measurement of the $Z\gamma \to \nu \bar{\nu} \gamma$ production cross section in pp collisions at $\sqrt{s}=$ 8 TeV and limits on anomalous $ZZ\gamma$ and $Z\gamma\gamma$ trilinear gauge boson couplings

CMS Collaboration arXiv:1602.07152 [hep-ex].

Search for supersymmetry in the multijet and missing transverse momentum final state in pp collisions at 13 TeV

CMS Collaboration arXiv:1602.06581 [hep-ex].

Measurement of dijet azimuthal decorrelation in pp collisions at \sqrt{s} = 8 TeV

CMS Collaboration arXiv:1602.04384 [hep-ex].

Search for R-parity violating decays of a top squark in proton-proton collisions at \sqrt{s} = 8 TeV

CMS Collaboration arXiv:1602.04334 [hep-ex].

Combined search for anomalous pseudoscalar HVV couplings in VH production and H to VV decay

CMS Collaboration arXiv:1602.04305 [hep-ex].

Search for direct pair production of scalar top quarks in the single- and dilepton channels in proton-proton collisions at $\sqrt{s}=8$ TeV

CMS Collaboration arXiv:1602.03169 [hep-ex].

Search for supersymmetry in pp collisions at $\sqrt{s}=8$ TeV in final states with boosted W bosons and b jets using razor variables

CMS Collaboration arXiv:1602.02917 [hep-ex].

Azimuthal decorrelation of jets widely separated in rapidity in pp collisions at $\sqrt{s}=\mathbf{7}$ TeV

CMS Collaboration arXiv:1601.06713 [hep-ex].

Search for massive WH resonances decaying into the $\ell \nu b \bar{b}$ final state at $\sqrt{s}=$ 8 TeV CMS Collaboration arXiv:1601.06431 [hep-ex].

Forward-backward asymmetry of Drell-Yan lepton pairs in pp collisions at $\sqrt{s}=8$ TeV CMS Collaboration arXiv:1601.04768 [hep-ex].

Measurement of inclusive jet production and nuclear modifications in pPb collisions at sqrt(s[NN]) = 5.02 TeV

CMS Collaboration arXiv:1601.02001 [nucl-ex].

Measurements of t-tbar spin correlations and top quark polarization using dilepton final states in pp collisions at sqrt(s) = 8 TeV

CMS Collaboration arXiv:1601.01107 [hep-ex].

Correlations between jets and charged particles in PbPb and pp collisions at sqrt(s[NN])= 2.76 TeV

CMS Collaboration arXiv:1601.00079 [nucl-ex].

Measurement of differential and integrated fiducial cross sections for Higgs boson production in the four-lepton decay channel in pp collisions at sqrt(s) = 7 and 8 TeV

CMS Collaboration

arXiv:1512.08377 [hep-ex].

Search for supersymmetry in events with soft leptons, low jet multiplicity, and missing transverse momentum in proton-proton collisions at sqrt(s) = 8 TeV

CMS Collaboration

arXiv:1512.08002 [hep-ex].

Study of Z boson production in pPb collisions at sqrt(s[NN]) = 5.02 TeV

CMS Collaboration

arXiv:1512.06461 [hep-ex].

Measurement of the inclusive jet cross section in pp collisions at sqrt(s) = 2.76 TeV

CMS Collaboration

arXiv:1512.06212 [hep-ex].

Search for narrow resonances decaying to dijets in proton-proton collisions at sqrt(s) = 13 TeV

CMS Collaboration

arXiv:1512.01224 [hep-ex].

Event generator tunes obtained from underlying event and multiparton scattering measurements

CMS Collaboration

arXiv:1512.00815 [hep-ex].

Search for dark matter and unparticles produced in association with a Z boson in protonproton collisions at sqrt(s) = 8 TeV

CMS Collaboration

arXiv:1511.09375 [hep-ex].

Measurement of spin correlations in t-tbar production using the matrix element method in the muon+jets final state in pp collisions at sqrt(s) = 8 TeV

CMS Collaboration

arXiv:1511.06170 [hep-ex].

Search for a low-mass pseudoscalar Higgs boson produced in association with a b-bbar pair in pp collisions at sqrt(s) = 8 TeV

CMS Collaboration

arXiv:1511.03610 [hep-ex].

Search for excited leptons in proton-proton collisions at sqrt(s) = 8 TeV

CMS Collaboration

arXiv:1511.01407 [hep-ex].

Reconstruction and identification of au lepton decays to hadrons and $u_{ au}$ at CMS

CMS Collaboration

arXiv:1510.07488 [physics.ins-det].

Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into τ leptons in pp collisions at $\sqrt{s}=$ 8 TeV

CMS Collaboration

arXiv:1510.06534 [hep-ex].

Measurement of the top quark pair production cross section in proton-proton collisions at $\sqrt{s}=13~\text{TeV}$

CMS Collaboration

arXiv:1510.05302 [hep-ex].

Search for a light charged Higgs boson decaying to c s-bar in pp collisions at sqrt(s) = 8 TeV

CMS Collaboration

arXiv:1510.04252 [hep-ex].

10.1007/JHEP12(2015)178.

JHEP 1512 (2015) 178.

Transverse momentum spectra of b jets in pPb collisions at $\sqrt{s_{
m NN}}$ = 5.02 TeV

CMS Collaboration

arXiv:1510.03373 [nucl-ex].

Measurement of $t\bar{t}$ production with additional jet activity, including b quark jets, in the dilepton decay channel using pp collisions at $\sqrt{s}=$ 8 TeV

CMS Collaboration

arXiv:1510.03072 [hep-ex].

Measurement of long-range near-side two-particle angular correlations in pp collisions at $\sqrt{s}=$ 13 TeV

CMS Collaboration

arXiv:1510.03068 [nucl-ex].

Searches for a heavy scalar boson H decaying to a pair of 125 GeV Higgs bosons hh or for a heavy pseudoscalar boson A decaying to Zh, in the final states with $h\to\tau\tau$ CMS Collaboration

arXiv:1510.01181 [hep-ex].

Observation of top quark pairs produced in association with a vector boson in pp collisions at sqrt(s) = 8 TeV

CMS Collaboration

arXiv:1510.01131 [hep-ex].

Measurement of transverse momentum relative to dijet systems in PbPb and pp collisions at $\sqrt{s_{NN}}=2.76$ TeV

CMS Collaboration

arXiv:1509.09029 [nucl-ex].

Search for the Production of an Excited Bottom Quark Decaying to tW in Proton-Proton Collisions at $\sqrt{s}=8$ TeV

CMS Collaboration

arXiv:1509.08141 [hep-ex].

Measurement of the ttbar Production Cross Section in the All-Jets Final State in pp Collisions at \sqrt{s} =8 TeV

CMS Collaboration

arXiv:1509.06076 [hep-ex].

Search for W' \rightarrow tb in proton-proton collisions at $\sqrt{s}=$ 8 TeV

CMS Collaboration

arXiv:1509.06051 [hep-ex].

Search for Vector-Like Charge 2/3 T Quarks in Proton-Proton Collisions at $\sqrt{s}=8$ TeV CMS Collaboration

arXiv:1509.04177 [hep-ex].

Measurement of the top quark mass using proton-proton data at \sqrt{s} = 7 and 8 TeV

CMS Collaboration

arXiv:1509.04044 [hep-ex].

Measurement of the Inelastic Cross Section in Proton-Lead Collisions at $\sqrt{s_{ m NN}}=$ 5.02 TeV

CMS Collaboration

arXiv:1509.03893 [hep-ex].

Search for Single Production of Scalar Leptoquarks in Proton-Proton Collisions at \sqrt{s} = 8 TeV

CMS Collaboration

arXiv:1509.03750 [hep-ex].

Search for Pair Production of First and Second Generation Leptoquarks in Proton-Proton Collisions at $\sqrt{s}=$ 8 TeV

CMS Collaboration

arXiv:1509.03744 [hep-ex].

Measurement of Differential Cross Sections for Higgs Boson Production in the Diphoton Decay Channel in pp Collisions at \sqrt{s} =8 TeV

CMS Collaboration

arXiv:1508.07819 [hep-ex].

Search for a charged Higgs boson in pp collisions at $\sqrt{s}=8$ TeV

CMS Collaboration arXiv:1508.07774 [hep-ex]. 10.1007/JHEP11(2015)018. JHEP 1511 (2015) 018.

Search for supersymmetry in the vector-boson fusion topology in proton-proton collisions at $\sqrt{s}=8~\text{TeV}$

CMS Collaboration arXiv:1508.07628 [hep-ex]. 10.1007/JHEP11(2015)189. JHEP 1511 (2015) 189.

Study of B Meson Production in pPb Collisions at $\sqrt{s_{NN}} =$ = 5.02 TeV

CMS Collaboration arXiv:1508.06678 [nucl-ex].

Search for W' decaying to tau lepton and neutrino in proton-proton collisions at $\sqrt{s} = {\rm 8~TeV}$

CMS Collaboration arXiv:1508.04308 [hep-ex].

Search for neutral MSSM Higgs bosons decaying to $\mu^+\mu^-$ in pp collisions at $\sqrt{s}=$ 7 and 8 TeV

CMS Collaboration arXiv:1508.01437 [hep-ex]. 10.1016/j.physletb.2015.11.042. Phys.Lett. B752 (2016) 221-246.

Search for Supersymmetry with a Photon, a Lepton, and Missing Transverse Momentum in pp Collisions at $\sqrt{s}=8$ TeV

CMS Collaboration arXiv:1508.01218 [hep-ex].

Angular analysis of the decay $B^0 \to K^{*0} \mu^+ \mu^-$ from pp collisions at $\sqrt{s} = 8$ TeV

CMS Collaboration

arXiv:1507.08126 [hep-ex].

10.1016/j.physletb.2015.12.020.

Phys.Lett. B753 (2016) 424-448.

Measurement of the CP-violating weak phase ϕ_s and the decay width difference $\Delta\Gamma_s$ using the $B_s^0 \to J/\psi \phi(1020)$ decay channel in pp collisions at $\sqrt{s}=$ 8 TeV

CMS Collaboration

arXiv:1507.07527 [hep-ex].

Measurement of the underlying event activity using charged-particle jets in proton-proton collisions at sqrt(s) = 2.76 TeV

CMS Collaboration arXiv:1507.07229 [hep-ex]. 10.1007/JHEP09(2015)137. JHEP 1509 (2015) 137.

Search for pair-produced vector-like B quarks in proton-proton collisions at $\sqrt{s}=8$ TeV CMS Collaboration

arXiv:1507.07129 [hep-ex].

Limits on the Higgs boson lifetime and width from its decay to four charged leptons

CMS Collaboration arXiv:1507.06656 [hep-ex]. 10.1103/PhysRevD.92.072010. Phys.Rev. D92 (2015) 7, 072010.

Pseudorapidity distribution of charged hadrons in proton-proton collisions at $\sqrt{s}=$ 13 TeV

CMS Collaboration arXiv:1507.05915 [hep-ex]. 10.1016/j.physletb.2015.10.004. Phys.Lett. B751 (2015) 143-163.

Measurement of the W^+W^- cross section in pp collisions at $\sqrt{s}=$ 8 TeV and limits on anomalous gauge couplings

CMS Collaboration arXiv:1507.03268 [hep-ex].

Inclusive and differential measurements of the $t\bar{t}$ charge asymmetry in pp collisions at $\sqrt{s}=$ 8 TeV

CMS Collaboration arXiv:1507.03119 [hep-ex].

Search for a Higgs boson decaying into $\gamma^*\gamma\to\ell\ell\gamma$ with low dilepton mass in pp collisions at $\sqrt{s}=$ 8 TeV

CMS Collaboration arXiv:1507.03031 [hep-ex]. 10.1016/j.physletb.2015.12.039. Phys.Lett. B753 (2016) 341-362.

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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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:1210.8115 [hep-ex]. 10.1007/JHEP01(2013)077. JHEP 1301 (2013) 077.

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CMS Collaboration arXiv:1210.7619 [hep-ex]. 10.1016/j.physletb.2013.09.009. Phys.Lett. B726 (2013) 564-586.

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CMS Collaboration arXiv:1210.7544 [hep-ex]. 10.1140/epjc/s10052-013-2283-3. Eur.Phys.J. C73 (2013) 2, 2283.

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CMS Collaboration arXiv:1210.6718 [hep-ex]. 10.1016/j.physletb.2013.03.024. Phys.Lett. B722 (2013) 5-27.

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CMS Collaboration arXiv:1210.5629 [hep-ex]. 10.1103/PhysRevLett.110.081801. Phys.Rev.Lett. 110 (2013) 081801.

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CMS Collaboration arXiv:1210.5482 [nucl-ex]. 10.1016/j.physletb.2012.11.025. Phys.Lett. B718 (2013) 795-814.

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CMS Collaboration arXiv:1210.2422 [hep-ex]. 10.1016/j.physletb.2013.02.031. Phys.Lett. B720 (2013) 309-329.

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CMS Collaboration arXiv:1210.2387 [hep-ex]. 10.1007/JHEP01(2013)013. JHEP 1301 (2013) 013.

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CMS Collaboration arXiv:1210.2311 [hep-ex]. 10.1103/PhysRevD.87.092008. Phys.Rev. D87 (2013) 9, 092008.

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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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:1208.3477 [hep-ex]. 10.1103/PhysRevLett.109.251801. Phys.Rev.Lett. 109 (2012) 251801.

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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CMS Collaboration

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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 1203 (2012) 040.

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CMS Collaboration

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CMS Collaboration

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Search for the standard model Higgs boson in the decay channel H to ZZ to 4 leptons in pp collisions at $\sqrt{s}=7~\text{TeV}$

CMS Collaboration

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CMS Collaboration

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CMS Collaboration arXiv:1202.1487 [hep-ex]. 10.1016/j.physletb.2012.03.003. Phys.Lett. B710 (2012) 403-425.

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CMS Collaboration

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CMS Collaboration

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JHEP 1201 (2012) 052.

J/ψ and ψ_{2S} production in pp collisions at $\sqrt{s}=7$ TeV

CMS Collaboration

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10.1007/JHEP02(2012)011.

JHEP 1202 (2012) 011.

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CMS Collaboration

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10.1007/JHEP01(2012)133.

JHEP 1201 (2012) 133.

Measurement of the Rapidity and Transverse Momentum Distributions of Z Bosons in pp Collisions at $\sqrt{s}=7$ TeV

CMS Collaboration

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Phys.Rev. D85 (2012) 032002.

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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:

'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 $b\bar{b}l\nu l\nu$ 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 $\sqrt{s}=8\text{TeV}$ 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 $\sqrt{s}=8 \text{TeV}'$ (CMS-PAS-TOP-14-004) [R - Single top]

'Search for $H\to b\bar b$ 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 $3000 fb^{-1}$ 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 $B^0_s \to \mu^+\mu^-$ 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 $\sqrt{s}=8\text{TeV}$ ' (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 $\sqrt{s}=8\text{TeV}$ 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 $\sqrt{s}=8{\rm TeV}'$ (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 \rightarrow WW \rightarrow 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:

'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 \to 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]

October 27, 2016