

## Appendix: Full Publication List

- **“Search for a heavy resonance decaying to a top quark and a vector-like top quark at  $\sqrt{s} = 13 \text{ TeV}$ ”**  
Professor Matthew Herndon  
A. M. Sirunyan *et al.* [CMS Collaboration].  
arXiv:1703.06352 [hep-ex]  
CMS-B2G-16-013, CERN-EP-2017-035
- **“Measurement of the jet mass in highly boosted t-tbar events from pp collisions at  $\sqrt{s} = 8 \text{ TeV}$ ”**  
A. M. Sirunyan *et al.* [CMS Collaboration].  
arXiv:1703.06330 [hep-ex]  
CMS-TOP-15-015, CERN-EP-2017-018
- **“Search for anomalous couplings in semileptonic WW/WZ to l nu qqbar production in proton-proton collisions at  $\sqrt{s}=8 \text{ TeV}$ ”**  
A. M. Sirunyan *et al.* [CMS Collaboration].  
arXiv:1703.06095 [hep-ex]  
CMS-SMP-13-008, CERN-EP-2017-029
- **“Search for associated production of dark matter with a Higgs boson decaying to b-bbar or gamma-gamma at  $\sqrt{s} = 13 \text{ TeV}$ ”**  
A. M. Sirunyan *et al.* [CMS Collaboration].  
arXiv:1703.05236 [hep-ex]  
CMS-EXO-16-012, CERN-EP-2017-027
- **“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  $\sqrt{s} = 13 \text{ TeV}$ ”**  
A. M. Sirunyan *et al.* [CMS Collaboration].  
arXiv:1703.03995 [hep-ex]  
CMS-EXO-16-023, CERN-EP-2017-025
- **“Measurement of the top quark mass using single top quark events in proton-proton collisions at  $\sqrt{s}= 8 \text{ TeV}$ ”**  
A. M. Sirunyan *et al.* [CMS Collaboration].  
arXiv:1703.02530 [hep-ex]  
CMS-TOP-15-001, CERN-EP-2017-012
- **“Search for dark matter produced with an energetic jet or a hadronically decaying W or Z boson at  $\sqrt{s} = 13 \text{ TeV}$ ”**  
A. M. Sirunyan *et al.* [CMS Collaboration].  
arXiv:1703.01651 [hep-ex]  
CMS-EXO-16-037, CERN-EP-2017-031
- **“Measurement of double-differential cross sections for top quark pair production in pp collisions at  $\sqrt{s} = 8 \text{ TeV}$  and impact on parton distribution functions”**  
A. M. Sirunyan *et al.* [CMS Collaboration].  
arXiv:1703.01630 [hep-ex]  
CMS-TOP-14-013, CERN-EP-2017-030
- **“Measurement of the Inclusive-Isolated Prompt-Photon Cross Section in  $p\bar{p}$  Collisions using the full CDF Data Set”**

T. A. Aaltonen *et al.* [CDF Collaboration].  
arXiv:1703.00599 [hep-ex]

FERMILAB-PUB-17-053-PPD

- **“Search for standard model production of four top quarks in proton-proton collisions at  $\sqrt{s} = 13$  TeV”**  
A. M. Sirunyan *et al.* [CMS Collaboration].  
arXiv:1702.06164 [hep-ex]  
CMS-TOP-16-016, CERN-EP-2017-023
- **“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”**  
V. Khachatryan *et al.* [CMS Collaboration].  
arXiv:1702.03025 [hep-ex]  
CMS-SMP-14-018, CERN-EP-2016-308
- **“Measurement of prompt and nonprompt J/psi production in pp and pPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV”**  
A. M. Sirunyan *et al.* [CMS Collaboration].  
arXiv:1702.01462 [nucl-ex]  
CMS-HIN-14-009, CERN-EP-2017-009
- **“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”**  
A. M. Sirunyan *et al.* [CMS Collaboration].  
arXiv:1702.01404 [hep-ex]  
CMS-TOP-12-039, CERN-EP-2016-324
- **“Study of jet quenching with Z+jet correlations in PbPb and pp collisions at  $\sqrt{s_{NN}} = 5.02$  TeV”**  
A. M. Sirunyan *et al.* [CMS Collaboration].  
arXiv:1702.01060 [nucl-ex]  
CMS-HIN-15-013, CERN-EP-2017-002
- **“Azimuthal anisotropy of charged particles with transverse momentum up to 100 GeV in PbPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV”**  
A. M. Sirunyan *et al.* [CMS Collaboration].  
arXiv:1702.00630 [hep-ex]  
CMS-HIN-15-014, CERN-EP-2017-001
- **“Measurement of the inclusive energy spectrum in the very forward direction in proton-proton collisions at  $\sqrt{s}=13$  TeV”**  
A. M. Sirunyan *et al.* [CMS Collaboration].  
arXiv:1701.08695 [hep-ex]  
CMS-FSQ-16-002, CERN-EP-2016-313
- **“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”**

- A. M. Sirunyan *et al.* [CMS Collaboration].  
arXiv:1701.08328 [hep-ex]  
CMS-B2G-16-006, CERN-EP-2016-319
- **“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”**  
A. M. Sirunyan *et al.* [CMS Collaboration].  
arXiv:1701.07409 [hep-ex]  
CMS-B2G-16-001, CERN-EP-2016-326
  - **“Search for supersymmetry with multiple charged leptons in proton-proton collisions at  $\sqrt{s} = 13$  TeV”**  
V. Khachatryan *et al.* [CMS Collaboration].  
arXiv:1701.06940 [hep-ex]  
CMS-SUS-16-003, CERN-EP-2016-306
  - **“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”**  
A. M. Sirunyan *et al.* [CMS Collaboration].  
arXiv:1701.06228 [hep-ex]  
CMS-TOP-16-006, CERN-EP-2016-321
  - **“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”**  
A. M. Sirunyan *et al.* [CMS Collaboration].  
arXiv:1701.02042 [hep-ex]  
DOI:10.1007/JHEP03(2017)061  
JHEP **1703**, 061 (2017)  
CMS-EXO-16-010, CERN-EP-2016-309, FERMILAB-PUB-17-011-CMS
  - **“Search for light bosons in decays of the 125 GeV Higgs boson in proton-proton collisions at  $\sqrt{s} = 8$  TeV”**  
V. Khachatryan *et al.* [CMS Collaboration].  
arXiv:1701.02032 [hep-ex]  
CMS-HIG-16-015, CERN-EP-2016-292
  - **“Mechanical stability of the CMS strip tracker measured with a laser alignment system”**  
A. M. Sirunyan *et al.* [CMS Collaboration].  
arXiv:1701.02022 [physics.ins-det]  
CMS-TRK-15-002, CERN-EP-2016-320
  - **“Search for supersymmetry in the all-hadronic final state using top quark tagging in pp collisions at  $\sqrt{s} = 13$  TeV”**  
V. Khachatryan *et al.* [CMS Collaboration].  
arXiv:1701.01954 [hep-ex]  
CMS-SUS-16-009, CERN-EP-2016-293
  - **“Search for leptophobic Z’ bosons decaying into four-lepton final states in proton-proton collisions at  $\sqrt{s} = 8$  TeV”**

- V. Khachatryan *et al.* [CMS Collaboration].  
arXiv:1701.01345 [hep-ex]  
CMS-EXO-14-006, CERN-EP-2016-295
- **“Search for high-mass  $Z\gamma$  resonances in proton-proton collisions at  $\sqrt{s} = 8$  and 13 TeV using jet substructure techniques”**  
A. M. Sirunyan *et al.* [CMS Collaboration].  
arXiv:1612.09516 [hep-ex]  
CMS-EXO-16-025, CERN-EP-2016-300
  - **“Search for heavy gauge W’ boson in events with an energetic lepton and large missing transverse momentum at  $\sqrt{s} = 13$  TeV”**  
V. Khachatryan *et al.* [CMS Collaboration].  
arXiv:1612.09274 [hep-ex]  
CMS-EXO-15-006, CERN-EP-2016-281
  - **“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”**  
V. Khachatryan *et al.* [CMS Collaboration].  
arXiv:1612.09256 [hep-ex]  
CMS-SMP-14-011, CERN-EP-2016-289
  - **“Search for massive resonances decaying into WW, WZ or ZZ bosons in proton-proton collisions at  $\sqrt{s} = 13$  TeV”**  
A. M. Sirunyan *et al.* [CMS Collaboration].  
arXiv:1612.09159 [hep-ex]  
CMS-B2G-16-004, CERN-EP-2016-296
  - **“Measurements of the charm jet cross section and nuclear modification factor in pPb collisions at  $\sqrt{s}NN = 5.02$  TeV”**  
A. M. Sirunyan *et al.* [CMS Collaboration].  
arXiv:1612.08972 [nucl-ex]  
CMS-HIN-15-012, CERN-EP-2016-274
  - **“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”**  
A. M. Sirunyan *et al.* [CMS Collaboration].  
arXiv:1612.05336 [hep-ex]  
CMS-B2G-16-005, CERN-EP-2016-290
  - **“Searches for pair production for third-generation squarks in  $\sqrt{s}=13$  TeV pp collisions”**  
A. M. Sirunyan *et al.* [CMS Collaboration].  
arXiv:1612.03877 [hep-ex]  
CMS-SUS-16-008, CERN-EP-2016-284
  - **“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”**

V. Khachatryan *et al.* [CMS Collaboration].  
arXiv:1612.01190 [hep-ex]  
DOI:10.1007/JHEP03(2017)077  
JHEP **1703**, 077 (2017)  
CMS-EXO-16-016, CERN-EP-2016-286

- **“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”**

V. Khachatryan *et al.* [CMS Collaboration].  
arXiv:1612.00999 [hep-ex]

CMS-B2G-15-008, CERN-EP-2016-279

- **“Search for CP violation in top quark-antiquark production and decay in proton-proton collisions at  $\sqrt{s} = 8$  TeV”**

V. Khachatryan *et al.* [CMS Collaboration].  
arXiv:1611.08931 [hep-ex]

CMS-TOP-16-001, CERN-EP-2016-266

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

V. Khachatryan *et al.* [CMS Collaboration].  
arXiv:1611.06604 [hep-ex]

CMS-SUS-15-012, CERN-EP-2016-269

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

V. Khachatryan *et al.* [CMS Collaboration].  
arXiv:1611.06594 [hep-ex]  
DOI:10.1007/JHEP02(2017)048  
JHEP **1702**, 048 (2017)  
CMS-EXO-16-008, CERN-EP-2016-273

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

V. Khachatryan *et al.* [CMS Collaboration].  
arXiv:1611.06507 [hep-ex]

CMS-SMP-14-010, CERN-EP-2016-254

- **“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”**

V. Khachatryan *et al.* [CMS Collaboration].  
arXiv:1611.04040 [hep-ex]  
DOI:10.1140/epjc/s10052-017-4718-8  
Eur. Phys. J. C **77**, 172 (2017)  
CMS-TOP-16-005, CERN-EP-2016-265

- **“Measurements of the differential production cross sections for a Z boson in association with jets in pp collisions at  $\sqrt{s} = 8$  TeV”**  
 V. Khachatryan *et al.* [CMS Collaboration].  
 arXiv:1611.03844 [hep-ex]

CMS-SMP-14-013, CERN-EP-2016-256
- **“Search for dijet resonances in proton-proton collisions at  $\sqrt{s} = 13$  TeV and constraints on dark matter and other models”**  
 A. M. Sirunyan *et al.* [CMS Collaboration].  
 arXiv:1611.03568 [hep-ex]  
 DOI:10.1016/j.physletb.2017.02.012  
 Phys. Lett. B  
 CMS-EXO-16-032, CERN-EP-2016-277
- **“Charged-particle nuclear modification factors in PbPb and pPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV”**  
 V. Khachatryan *et al.* [CMS Collaboration].  
 arXiv:1611.01664 [nucl-ex]

CMS-HIN-15-015, CERN-EP-2016-242
- **“Suppression of  $\Upsilon(1S)$ ,  $\Upsilon(2S)$  and  $\Upsilon(3S)$  production in PbPb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV”**  
 V. Khachatryan *et al.* [CMS Collaboration].  
 arXiv:1611.01510 [nucl-ex]

CMS-HIN-15-001, CERN-EP-2016-248
- **“Relative modification of prompt  $\psi(2S)$  and  $J/\psi$  yields from pp to PbPb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV”**  
 A. M. Sirunyan *et al.* [CMS Collaboration].  
 arXiv:1611.01438 [nucl-ex]

CMS-HIN-16-004, CERN-EP-2016-258
- **“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  $\alpha_T$  variable”**  
 V. Khachatryan *et al.* [CMS Collaboration].  
 arXiv:1611.00338 [hep-ex]

CMS-SUS-15-005, CERN-EP-2016-246
- **“Measurement of the mass difference between top quark and antiquark in pp collisions at  $\sqrt{s} = 8$  TeV”**  
 S. Chatrchyan *et al.* [CMS Collaboration].  
 arXiv:1610.09551 [hep-ex]  
 CMS-TOP-12-031, CERN-EP-2016-249

- **“Searches for invisible decays of the Higgs boson in pp collisions at  $\sqrt{s} = 7, 8, \text{ and } 13 \text{ TeV}$ ”**  
V. Khachatryan *et al.* [CMS Collaboration].  
arXiv:1610.09218 [hep-ex]  
DOI:10.1007/JHEP02(2017)135  
JHEP **1702**, 135 (2017)  
CMS-HIG-16-016, CERN-EP-2016-240
- **“Measurement of the  $D^+$ - Meson Production Cross Section at Low Transverse Momentum in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96 \text{ TeV}$ ”**  
T. A. Aaltonen *et al.* [CDF Collaboration].  
arXiv:1610.08989 [hep-ex]  
FERMILAB-PUB-16-473-PPD
- **“Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos, and b quarks”**  
V. Khachatryan *et al.* [CMS Collaboration].  
arXiv:1610.08066 [hep-ex]  
DOI:10.1016/j.physletb.2017.02.040  
Phys. Lett. B **768**, 137 (2017)  
CMS-B2G-16-003, CERN-EP-2016-226
- **“Observation of  $\Upsilon(1S)$  pair production in proton-proton collisions at  $\sqrt{s} = 8 \text{ TeV}$ ”**  
V. Khachatryan *et al.* [CMS Collaboration].  
arXiv:1610.07095 [hep-ex]  
  
CMS-BPH-14-008, CERN-EP-2016-237
- **“Search for R-parity violating supersymmetry with displaced vertices in proton-proton collisions at  $\sqrt{s} = 8 \text{ TeV}$ ”**  
V. Khachatryan *et al.* [CMS Collaboration].  
arXiv:1610.05133 [hep-ex]  
DOI:10.1103/PhysRevD.95.012009  
Phys. Rev. D, [Phys. Rev. D **95**, 012009 (2017)]  
CMS-SUS-14-020, CERN-EP-2016-224
- **“Search for electroweak production of charginos in final states with two tau leptons in pp collisions at  $\sqrt{s} = 8 \text{ TeV}$ ”**  
V. Khachatryan *et al.* [CMS Collaboration].  
arXiv:1610.04870 [hep-ex]  
  
CMS-SUS-14-022, CERN-EP-2016-225
- **“Search for top quark decays via Higgs-boson-mediated flavor-changing neutral currents in pp collisions at  $\sqrt{s} = 8 \text{ TeV}$ ”**  
V. Khachatryan *et al.* [CMS Collaboration].  
arXiv:1610.04857 [hep-ex]  
DOI:10.1007/JHEP02(2017)079

JHEP **1702**, 079 (2017)  
 CMS-TOP-13-017, CERN-EP-2016-208

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

V. Khachatryan *et al.* [CMS Collaboration].  
 arXiv:1610.04222 [hep-ex]  
 DOI:10.1103/PhysRevD.95.052002  
 Phys. Rev. D, [Phys. Rev. D **95**, 052002 (2017)]  
 CMS-SMP-14-023, CERN-EP-2016-231, CERN-PH-EP-2016-231

- **“Measurement of differential cross sections for top quark pair production using the lepton+jets final state in proton-proton collisions at 13 TeV”**

V. Khachatryan *et al.* [CMS Collaboration].  
 arXiv:1610.04191 [hep-ex]

CMS-TOP-16-008, CERN-EP-2016-227

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

V. Khachatryan *et al.* [CMS Collaboration].  
 arXiv:1610.03545 [hep-ex]  
 DOI:10.1007/JHEP02(2017)028  
 JHEP **1702**, 028 (2017)  
 CMS-TOP-14-007, CERN-EP-2016-207

- **“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”**

V. Khachatryan *et al.* [CMS Collaboration].  
 arXiv:1610.02960 [hep-ex]  
 DOI:10.1007/JHEP01(2017)076  
 JHEP **1701**, 076 (2017)  
 CMS-EXO-16-021, CERN-EP-2016-230

- **“Cross section measurement of t-channel single top quark production in pp collisions at  $\sqrt{s} = 13$  TeV”**

A. M. Sirunyan *et al.* [CMS Collaboration].  
 arXiv:1610.00678 [hep-ex]

CMS-TOP-16-003, CERN-EP-2016-233

- **“Suppression and azimuthal anisotropy of prompt and nonprompt  $J/\psi$  production in PbPb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV”**

V. Khachatryan *et al.* [CMS Collaboration].  
 arXiv:1610.00613 [nucl-ex]

CMS-HIN-14-005, CERN-EP-2016-243

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



V. Khachatryan *et al.* [CMS Collaboration].  
arXiv:1610.00263 [nucl-ex]

CMS-HIN-16-009, CERN-EP-2016-236

- **“Search for supersymmetry in events with one lepton and multiple jets in proton-proton collisions at  $\sqrt{s} = 13$  TeV”**  
V. Khachatryan *et al.* [CMS Collaboration].  
arXiv:1609.09386 [hep-ex]  
DOI:10.1103/PhysRevD.95.012011  
Phys. Rev. D **95**, no. 1, 012011 (2017)  
CMS-SUS-15-006, CERN-EP-2016-239
- **“Search for long-lived charged particles in proton-proton collisions at  $\sqrt{s} = 13$  TeV”**  
V. Khachatryan *et al.* [CMS Collaboration].  
arXiv:1609.08382 [hep-ex]  
DOI:10.1103/PhysRevD.94.112004  
Phys. Rev. D **94**, no. 11, 112004 (2016)  
CMS-EXO-15-010, CERN-EP-2016-204
- **“Inclusive search for supersymmetry using razor variables in pp collisions at  $\sqrt{s} = 13$  TeV”**  
V. Khachatryan *et al.* [CMS Collaboration].  
arXiv:1609.07658 [hep-ex]  
DOI:10.1103/PhysRevD.95.012003  
Phys. Rev. D **95**, no. 1, 012003 (2017)  
CMS-SUS-15-004, CERN-EP-2016-214
- **“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”**  
V. Khachatryan *et al.* [CMS Collaboration].  
arXiv:1609.05721 [hep-ex]  
  
CMS-SMP-14-014, CERN-EP-2016-205
- **“Search for narrow resonances in dilepton mass spectra in proton-proton collisions at  $\sqrt{s} = 13$  TeV and combination with 8 TeV data”**  
V. Khachatryan *et al.* [CMS Collaboration].  
arXiv:1609.05391 [hep-ex]  
DOI:10.1016/j.physletb.2017.02.010  
Phys. Lett. B **768**, 57 (2017)  
CMS-EXO-15-005, CERN-EP-2016-209, FERMILAB-PUB-16-491-CMS
- **“Measurement of inclusive jet cross-sections in pp and PbPb collisions at  $\sqrt{s_{NN}}=2.76$  TeV”**  
V. Khachatryan *et al.* [CMS Collaboration].  
arXiv:1609.05383 [nucl-ex]  
  
CMS-HIN-13-005, CERN-EP-2016-217

- **“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”**  
 V. Khachatryan *et al.* [CMS Collaboration].  
 arXiv:1609.05331 [hep-ex]

CMS-SMP-14-001, CERN-EP-2016-196
- **“Studies of inclusive four-jet production with two  $b$ -tagged jets in proton-proton collisions at 7 TeV”**  
 V. Khachatryan *et al.* [CMS Collaboration].  
 arXiv:1609.03489 [hep-ex]  
 DOI:10.1103/PhysRevD.94.112005  
 Phys. Rev. D **94**, no. 11, 112005 (2016)  
 CMS-FSQ-13-010, CERN-EP-2016-191
- **“Search for high-mass diphoton resonances in protonproton collisions at 13 TeV and combination with 8 TeV search”**  
 V. Khachatryan *et al.* [CMS Collaboration].  
 arXiv:1609.02507 [hep-ex]  
 DOI:10.1016/j.physletb.2017.01.027  
 Phys. Lett. B **767**, 147 (2017)  
 CMS-EXO-16-027, CERN-EP-2016-216, CMS-EXO-16-02
- **“Decomposing transverse momentum balance contributions for quenched jets in PbPb collisions at  $\sqrt{s_{NN}} = 2.76$  TeV”**  
 V. Khachatryan *et al.* [CMS Collaboration].  
 arXiv:1609.02466 [nucl-ex]  
 DOI:10.1007/JHEP11(2016)055  
 JHEP **1611**, 055 (2016)  
 CMS-HIN-15-011, CERN-EP-2016-199
- **“The CMS trigger system”**  
 V. Khachatryan *et al.* [CMS Collaboration].  
 arXiv:1609.02366 [physics.ins-det]  
 DOI:10.1088/1748-0221/12/01/P01020  
 JINST **12**, no. 01, P01020 (2017)  
 CMS-TRG-12-001, CERN-EP-2016-160
- **“Measurement of the total and differential inclusive  $B^+$  hadron cross sections in pp collisions at  $\sqrt{s} = 13$  TeV”**  
 V. Khachatryan *et al.* [CMS Collaboration].  
 arXiv:1609.00873 [hep-ex]

CMS-BPH-15-004, CERN-EP-2016-198
- **“Measurement of the production cross section of a W boson in association with two b jets in pp collisions at  $\sqrt{s} = 8$  TeV”**  
 V. Khachatryan *et al.* [CMS Collaboration].  
 arXiv:1608.07561 [hep-ex]

DOI:10.1140/epjc/s10052-016-4573-z  
 Eur. Phys. J. C **77**, no. 2, 92 (2017)  
 CMS-SMP-14-020, CERN-EP-2016-190

- **“Measurement of the mass of the top quark in decays with a  $J/\psi$  meson in pp collisions at 8 TeV”**  
 V. Khachatryan *et al.* [CMS Collaboration].  
 arXiv:1608.03560 [hep-ex]  
 DOI:10.1007/JHEP12(2016)123  
 JHEP **1612**, 123 (2016)  
 CMS-TOP-15-014, CERN-EP-2016-202
  
- **“Search for new physics in events with high jet multiplicity and low missing transverse momentum in proton-proton collisions at  $\sqrt{s} = 8$  TeV”**  
 V. Khachatryan *et al.* [CMS Collaboration].  
 arXiv:1608.01224 [hep-ex]  
  
 CMS-EXO-13-001, CERN-EP-2016-187
  
- **“Measurement of the ZZ production cross section and  $Z \rightarrow \ell^+ \ell^- \ell'^+ \ell'^-$  branching fraction in pp collisions at  $\sqrt{s}=13$  TeV”**  
 V. Khachatryan *et al.* [CMS Collaboration].  
 arXiv:1607.08834 [hep-ex]  
 DOI:10.1016/j.physletb.2016.10.054  
 Phys. Lett. B **763**, 280 (2016)  
 CMS-SMP-16-001, CERN-EP-2016-174
  
- **“Measurement of electroweak production of a W boson and two forward jets in proton-proton collisions at  $\sqrt{s} = 8$  TeV”**  
 V. Khachatryan *et al.* [CMS Collaboration].  
 arXiv:1607.06975 [hep-ex]  
 DOI:10.1007/JHEP11(2016)147  
 JHEP **1611**, 147 (2016)  
 CMS-SMP-13-012, CERN-EP-2016-093
  
- **“Measurement of the WZ production cross section in pp collisions at  $\sqrt{s} = 13$  TeV”**  
 V. Khachatryan *et al.* [CMS Collaboration].  
 arXiv:1607.06943 [hep-ex]  
 DOI:10.1016/j.physletb.2017.01.011  
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