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CMS Top Quark Physics Group Results

The top group is responsible for precision measurements of the properties of the top quark, the heaviest particle in the standard model. The top-quark mass is one of the most important properties as it is a key parameter for calculations in the standard model. The top group also aims to establish measurements of rare production modes of the top quark in association with other particles, and search for new couplings of the top quark. We also aim to improve our understanding of top quark production and decay processes in order to improve background predictions for physics searches beyond the standard model.

Group conveners: Florencia Canelli (U. Zurich), Nadjieh Jafari (DESY)

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This page contains links to all public results of the CMS Top Quark Physics Analysis group.

Public results

NEW TOP results 2019

Winter: [TOP-17-006](#), [TOP-17-004](#), [TOP-18-009](#), [TOP-17-019](#), [TOP-17-023](#), [TOP-18-003](#)

Spring: [TOP-18-011](#)

Summer: [TOP-19-005](#), [TOP-18-005](#), [TOP-19-007](#), [TOP-18-002](#)

Autumn: [TOP-17-012](#) [HIN-19-001](#)

- [Publications](#)
- [Preliminary Results](#)
- [News about CMS TOP results](#)

Summary figures

- [CMS TOP](#): Summary of CMS top results
- [LHCtopWG](#): Summary and combination of LHC results
- [CMS](#): Summary of CMS results including top

Event displays

- [Event displays](#)

Past results

The publication list ([above](#)) is complete, but the official list of preliminary results ([link](#)) only starts from late 2014. Older preliminary results can be found below.

show  Hide 

Journal Publications (Run-1)

Date	ID	Title	Dataset	CDS - arXiv - HepData - Journal	Figures
January 2016	TOP-14-023	Measurements of ttbar spin correlations and top quark polarization using dilepton final states in pp collisions at $\sqrt{s} = 8$ TeV	2012 (19.5/fb)	CERN-PH-EP-2015-333 ↗ arXiv:1601.01107 ↗ HepData submitted to PRD	Webpage ↗
November 2015	TOP-13-015	Measurement of spin correlations in ttbar production using the matrix element method in the muon+jets final state in pp collisions at $\sqrt{s} = 8$ TeV	2012 (19.8/fb)	CERN-PH-EP-2015-289 ↗ arXiv:1511.06170 ↗ HepData ↗ submitted to PLB	Webpage ↗
November 2015	TOP-14-003	Search for anomalous single top quark production in association with a photon in pp collisions at $\sqrt{s} = 8$ TeV	2012 (19.8/fb)	CERN-PH-EP-2015-287 ↗ arXiv:1511.03951 ↗ HepData ↗ submitted to JHEP	Webpage ↗
November 2015	TOP-13-001	Measurement of top quark polarisation in t-channel single top quark production	2012 (19.7/fb)	CERN-PH-EP-2015-282 ↗ arXiv:1511.02138 ↗ HepData ↗ submitted to JHEP	Webpage ↗
October 2015	TOP-12-041	Measurement of t-tbar production with additional jet activity, including b quark jets, in the dilepton channel using pp collisions at $\sqrt{s} = 8$ TeV	2012 (19.5/fb)	CERN-PH-EP-2015-240 ↗ arXiv:1510.03072 ↗ submitted to EPJC	Webpage ↗
October 2015	TOP-14-021	Observation of top quark pairs produced in association with	2012 (19.5/fb)	CERN-PH-EP-2015-248 ↗ arXiv:1510.01131 ↗ HepData ↗ 10.1007/JHEP01(2016)096 ↗	Webpage ↗

		a vector boson in pp collisions at $\sqrt{s} = 8$ TeV			
September 2015	TOP-14-022	Measurement of the top quark mass using proton-proton data at $\sqrt{s} = 7$ and 8 TeV	2012 (19.7/fb)	CERN-PH-EP-2015-234 ↗ arXiv:1509.04044 ↗ submitted to PRD	Webpage ↗
September 2015	TOP-14-018	Measurement of the ttbar production cross section in the all-jets final state in pp collisions at $\sqrt{s} = 8$ TeV	2012 (18.4/fb)	CERN-PH-EP-2015-243 ↗ arXiv:1509.06076 ↗ submitted to PRD	Webpage ↗ twiki
August 2015	TOP-13-013	Measurement of the charge asymmetry in top quark pair production in pp collisions at $\sqrt{s} = 8$ TeV using a template method	2012 (19.7/fb)	CERN-PH-EP-2015-189 ↗ arXiv:1508.03862 ↗ HepData ↗	Webpage ↗
July 2015	TOP-12-033	Inclusive and differential measurements of the tt charge asymmetry in proton-proton collisions at $\sqrt{s} = 8$ TeV	2012 (19.7/fb)	CERN-PH-EP-2015-141 ↗ arXiv:1507.03119 ↗ HepData ↗	Webpage ↗
May 2015	TOP-12-028	Measurement of the differential cross section for top quark pair production in pp collisions at $\sqrt{s} = 8$ TeV	2012 (19.6/fb)	CERN-PH-EP-2015-117 ↗ arXiv:1505.04480 ↗ Eur. Phys. J. C 75 (2015) 542 ↗ HepData ↗	Webpage ↗
November 2014	TOP-13-010	Measurement of the the cross section ratio (ttbb)/ (ttjj) in pp collisions at $\sqrt{s} = 8$ TeV	2012 (19.6/fb)	CERN-PH-EP-2014-249 ↗ arXiv:1411.5621 ↗ HepData ↗ PLB 746 (2015) 132 ↗	twiki Webpage ↗
October 2014	TOP-12-020	Measurement of the W boson helicity in events with a single reconstructed top quark in pp collisions at $\sqrt{s} = 8$ TeV	2012 (19.7/fb)	CERN-PH-EP-2014-242 ↗ arXiv:1410.1154 ↗ HepData ↗ JHEP 01 (2015) 053 ↗	twiki Webpage ↗
	TOP-13-012				

September 2014		Search for standard model production of four top quarks in the lepton + jets channel in pp collisions at $\sqrt{s} = 8$ TeV	2012 (19.6/fb)	CERN-PH-EP-2014-222 ↗ arXiv:1409.7339 ↗ HepData ↗ JHEP 11 (2014) 154 ↗	twiki Webpage ↗	
July 2014	TOP-12-026	Measurement of the $t\bar{t}$ production cross section in pp collisions at 8 TeV in the e-tau and mu-tau dilepton final states	2012 (19.6/fb)	CERN-PH-EP-2014-167 ↗ arXiv:1407.6643 ↗ PLB 739 (2014) 23 ↗	Webpage ↗	
July 2014	TOP-12-036	Measurement of top pair production in association with a W or Z boson at 8 TeV	2012 (19.5/fb)	CERN-PH-EP-2014-136 ↗ arXiv:1406.7830 ↗ EPJ C74 (2014) 3060 ↗	Webpage ↗	
April 2014	TOP-12-018	Measurement of jet multiplicity distributions in $t\bar{t}$ production in pp collisions at $\sqrt{s} = 7$ TeV	2011 (5.0/fb)	CERN-PH-EP-2014-048 ↗ arXiv:1404.3171 ↗ EPJ C74 (2014) 3014 ↗ Corrigendum ↗	Webpage ↗	
April 2014	TOP-12-035	Measurement of the ratio $B(t \text{ to } Wb)/B(t \text{ to } Wq)$ in pp collisions at $\sqrt{s} = 8$ TeV	2012 (19.7/fb)	CERN-PH-EP-2014-052 ↗ arXiv:1404.2292 ↗ PLB 736 (2014) 33 ↗	link (CMS only) Webpage ↗	
March 2014	TOP-12-038	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	2012 (19.7/fb)	CERN-PH-EP-2014-038 ↗ arXiv:1403.7366 ↗ JHEP 06 (2014) 090 ↗
February 2014	TOP-12-010	Measurements of the top-antitop charge asymmetry using the dilepton decay channel in pp collisions at $\sqrt{s}=7$ TeV	2011 (5.0/fb)	CERN-PH-EP-2014-010 ↗ arXiv:1402.3803 ↗ JHEP 04 (2014) 191 ↗	Webpage ↗	
January 2014	TOP-12-040	Observation of the associated production of a single top quark	2012 (12.2/fb)	CERN-PH-EP-2013-237 ↗ arXiv:1401.2942 ↗ PRL 112 (2014) 231802 ↗	Webpage ↗	

		and a W boson in pp collisions at $\sqrt{s}=8$ TeV			
December 2013	TOP-12-007	Measurement of the t t-bar production cross section in the dilepton channel in pp collisions at $\sqrt{s}=8$ TeV	2012 (5.3/fb)	CERN-PH-EP-2013-234 ↗ arXiv:1312.7582 ↗ JHEP 02 (2014) 024 ↗	Webpage ↗
December 2013	TOP-12-037	Search for flavor-changing neutral currents (FCNC) in top-quark decays t to Zq in pp collisions at $\sqrt{s}=8$ TeV	2012 (19.7/fb)	CERN-PH-EP-2013-208 ↗ arXiv:1312.4194 ↗ PRL 112 (2014) 171802 ↗	Webpage ↗
November 2013	TOP-13-003	Measurements of t t-bar spin correlations and top-quark polarization using dilepton final states in pp collisions at $\sqrt{s}=7$ TeV	2011 (5.0/fb)	CERN-PH-EP-2013-211 ↗ arXiv:1311.3924 ↗ PRL 112 (2014) 182001 ↗	Webpage ↗
August 2013	TOP-11-020	Measurement of the W-boson helicity in top-quark decays from ttbar production in lepton+jets events in pp collisions at $\sqrt{s}=7$ TeV	2011 (5.0/fb)	CERN-PH-EP-2013-133 ↗ arXiv:1308.3879 ↗ JHEP 10 (2013) 167 ↗	Webpage ↗
July 2013	TOP-11-017	Measurement of the top-quark mass in all-jets t t-bar events in pp collisions at $\sqrt{s}=7$ TeV	2011 (3.54/fb)	CERN-PH-EP-2013-124 ↗ arXiv:1307.4617 ↗ EPJ C74 (2014) 2758 ↗	Webpage ↗
July 2013 + June 2014	TOP-12-022	Determination of the top-quark pole mass and strong coupling constant from the ttbar production cross section in pp collisions at $\sqrt{s} = 7$ TeV (with a	2011 (5.0/fb)	CERN-PH-EP-2013-121 ↗ arXiv:1307.1907 ↗ Corrigendum ↗ and original paper (PLB 728 (2014) 496) ↗	Webpage ↗

		corrigendum)			
April 2013	TOP-11-027	Measurement of masses in the t-tbar system by kinematic endpoints in pp collisions at $\sqrt{s} = 7$ TeV	2011 (5.0/fb)	CERN-PH-EP-2013-059 ↗ arXiv:1304.5783 ↗ EPJ C73 (2013) 2494 ↗	Webpage ↗
March 2013	TOP-12-014	Measurement of associated production of vector bosons and t-tbar at $\sqrt{s} = 7$ TeV	2011 (5.0/fb)	CERN-PH-EP-2013-033 ↗ arXiv:1303.3239 ↗ PRL 110 (2013) 172002 ↗	Webpage ↗
February 2013	TOP-11-007	Measurement of the t-tbar production cross section in the all-jet final state in pp collisions at $\sqrt{s} = 7$ TeV	2011 (3.5/fb)	CERN-PH-EP-2012-358 ↗ arXiv:1302.0508 ↗ JHEP 1305 (2013) 065 ↗	Webpage ↗
January 2013	TOP-11-004	Measurement of the top-antitop production cross section in the tau+jets channel in pp collisions at $\sqrt{s} = 7$ TeV	2011 (3.9/fb)	CERN-PH-EP-2012-374 ↗ arXiv:1301.5755 ↗	Webpage ↗
December 2012	TOP-11-003	Measurement of the t-tbar production cross section in pp collisions at $\sqrt{s} = 7$ TeV with lepton + jets final states	2011 (2.3/fb)	CERN-PH-EP-2012-285 ↗ arXiv:1212.6682 ↗ PLB 720 (2013) 83 ↗	Webpage ↗
November 2012	TOP-11-010	Search for Z' resonances decaying to t-tbar in dilepton+jets final states in pp collisions at $\sqrt{s} = 7$ TeV	2011 (5.0/fb)	CERN-PH-EP-2012-324 ↗ arXiv:1211.3338 ↗ PRD 87 (2013) 072002 ↗	Webpage ↗
November 2012	TOP-11-013	Measurement of differential top-quark pair production cross sections in pp collisions at $\sqrt{s} = 7$ TeV	2011 (5.0/fb)	CERN-PH-EP-2012-322 ↗ arXiv:1211.2220 ↗ EPJ C73 (2013) 2339 ↗	Webpage ↗
September 2012	TOP-11-021	Measurement of the	2011 (1.6/fb)	CERN-PH-EP-2012-274 ↗ arXiv:1209.4533 ↗	Webpage ↗

		single-top-quark t-channel cross section in pp collisions at $\sqrt{s} = 7$ TeV		JHEP 12 (2012) 035 ↗	
September 2012	TOP-12-017	Search for resonant t t-bar production in lepton+jets events in pp collisions at $\sqrt{s}=7$ TeV	2011 (5.0/fb)	CERN-PH-EP-2012-264 ↗ arXiv:1209.4397 ↗ JHEP 12 (2012) 015 ↗	Webpage ↗
September 2012	TOP-11-022	Evidence for associated production of a single top quark and W boson in pp collisions at 7 TeV	2011 (5.0/fb)	CERN-PH-EP-2012-266 ↗ arXiv:1209.3489 ↗ PRL 110 (2013) 022003 ↗	Webpage ↗
September 2012	TOP-11-016	Measurement of the top-quark mass in t t-bar events with dilepton final states in pp collisions at $\sqrt{s}=7$ TeV	2011 (5.0/fb)	CERN-PH-EP-2012-222 ↗ arXiv:1209.2393 ↗ EPJ C72 (2012) 2202 ↗	Webpage ↗
September 2012	TOP-11-015	Measurement of the top-quark mass in t t-bar events with lepton+jets final states in pp collisions at $\sqrt{s}=7$ TeV	2011 (5.0/fb)	CERN-PH-EP-2012-250 ↗ arXiv:1209.2319 ↗ JHEP 12 (2012) 105 ↗	Webpage ↗
August 2012	TOP-11-005	Measurement of the ttbar production cross section in the dilepton channel in pp collisions at $\sqrt{s}=7$ TeV	2011 (2.3/fb)	CERN-PH-EP-2012-224 ↗ arXiv:1208.2671 ↗ JHEP 11 (2012) 067 ↗	Webpage ↗
August 2012	TOP-11-028	Search for FCNC in top quark decays in pp collisions at $\sqrt{s}=7$ TeV	2011 (5/fb)	CERN-PH-EP-2012-206 ↗ arXiv:1208.0957 ↗ PLB 718 (2013) 1252 ↗	Webpage ↗
June 2012	TOP-11-030	Inclusive and differential measurements of the ttbar charge asymmetry in pp collisions at 7 TeV	2011 (5/fb)	CERN-PH-EP-2012-175 ↗ arXiv:1207.0065 ↗ PLB 717 (2012) 129 ↗	Webpage ↗

April 2012	TOP-11-019	Measurement of the mass difference between top and antitop quarks	2011 (5/fb)	CERN-PH-EP-2012-104 ↗ arXiv:1204.2807 ↗ JHEP 06 (2012) 109 ↗	Webpage ↗
March 2012	TOP-11-006	Measurement of the top quark pair production cross section in pp collisions at $\sqrt{s}=7$ TeV in dilepton final states containing a tau	2011 (2.2/fb)	CERN-PH-EP-2012-078 ↗ arXiv:1203.6810 ↗ PRD 85 (2012) 112007 ↗	Webpage ↗
December 2011	TOP-11-014	Measurement of the charge asymmetry in top-quark pair production in proton-proton collisions at $\sqrt{s}=7$ TeV	2011 (1.1/fb)	CERN-PH-EP-2011-217 ↗ arXiv:1112.5100 ↗ PLB 709 (2012) 28 ↗	Webpage ↗
August 2011	TOP-10-003	Measurement of the t tbar Production Cross Section in pp Collisions at 7 TeV in Lepton + Jets Events Using b-quark Jet Identification	2010 (36/pb)	CERN-PH-EP-2011-085 ↗ arXiv:1108.3773 ↗ PRD 84 (2011) 092004 ↗	Webpage ↗
June 2011	TOP-10-008	Measurement of the t-channel single top quark production cross section in pp collisions at $\sqrt{s}=7$ TeV	2010 (36/pb)	CERN-PH-EP-2011-066 ↗ arxiv:1106.3052 ↗ PRL 107 (2011) 091802 ↗	Webpage ↗
June 2011	TOP-10-002	Measurement of the Top-antitop Production Cross Section in pp Collisions at $\sqrt{s}=7$ TeV using the Kinematic Properties of Events with Leptons and Jets	2010 (36/pb)	CERN-PH-EP-2011-060 ↗ arXiv:1106.0902 ↗ EPJ C71 (2011) 1721 ↗	Webpage ↗
May 2011	TOP-11-002	Measurement of the t tbar production cross section and the top quark mass	2010 (36/pb)	CERN-PH-EP-2011-055 ↗ arXiv:1105.5661 ↗ JHEP 07 (2011) 049 ↗	Webpage ↗

		in the dilepton channel in pp collisions at $\sqrt{s} = 7$ TeV			
October 2010	TOP-10-001	First Measurement of the Cross Section for Top-Quark Pair Production in Proton-Proton Collisions at $\sqrt{s} = 7$ TeV	2010 (3/pb)	CERN-PH-EP-2010-039 ↗ arXiv:1010.5994 ↗ PLB 695 (2011) 424 ↗	Webpage ↗

- List of Journal Papers in CDS [↗](#)

Preliminary Results / PAS (Run-1)

Date	ID	Analysis	Luminosity	Approved Figures and Tables	CDS Document
Dec 2015	TOP-15-011	Comparisons of Theory Predictions for the $t\bar{t}$ Process with Data from pp Collisions at $\sqrt{s}=8$ TeV	19.7/fb	RIVET plugin ↗ webpage ↗	CMS PAS TOP-15-011 ↗
Nov 2015	TOP-14-020	Search for the Flavor-Changing Neutral Current Decay $t \rightarrow qH$ Where the Higgs Decays to $b\bar{b}$ Pairs at $\sqrt{s}=8$ TeV	19.7/fb	webpage ↗	CMS PAS TOP-14-020 ↗
Nov 2015	TOP-14-011	Measurement of the top-quark mass using the BEST-assisted R distribution in the $\mu\text{on} + \text{jets}$ channel	19.7/fb	webpage ↗	CMS PAS TOP-14-011 ↗
Sep 2015	TOP-15-007	Fiducial t-channel single-top cross section at $\sqrt{s} = 8$ TeV	19.7/fb	public	CMS PAS TOP-15-007 ↗
Sep 2015	TOP-14-023	Measurements of $t\bar{t}$ Spin Correlations and Top-Quark Polarization Using Dilepton Final States in pp Collisions at $\sqrt{s} = 8$ TeV	19.7/fb	public	CMS PAS TOP-14-023 ↗
Sep 2015	TOP-15-002	Measurement of the top-quark mass from b-jet energy spectrum	19.7/fb	public	CMS PAS TOP-15-002 ↗
Aug 2015	TOP-13-004	Measurements of the inclusive top-quark pair production cross section in the $e\mu$ decay channel in pp collisions at $\sqrt{s}= 7$ and 8 TeV	5 and 19.7/fb	public	CMS PAS TOP-13-004 ↗
Aug 2015	TOP-14-012	Measurement of the differential $t\bar{t}$ production cross section for high-pT top quarks in $e/\mu + \text{jets}$ final states at $\sqrt{s} = 8$ TeV	19.7/fb	public	CMS PAS TOP-14-012 ↗
July 2015	TOP-13-016	Measurement of $t\bar{t}b\bar{b}$ cross section and the ratio $t\bar{t}b\bar{b}/t\bar{t}j\bar{j}$ in the lepton+jets final state at 8 TeV with the CMS detector	19.7/fb	public	CMS PAS TOP-13-016 ↗
July 2015	TOP-14-017		19.7/fb	public	

		Measurement of the W boson helicity using tt events in the dilepton final state at $\sqrt{s} = 8$ TeV			CMS PAS TOP-14-017 ↗
July 2015	TOP-14-019	Search for top quark decays $t \rightarrow qH$ with H in pp collisions at $\sqrt{s} = 8$ TeV	19.7/fb	public	CMS PAS TOP-14-019 ↗
June 2015	TOP-13-015	Measurement of spin correlations of top-quark pairs using the matrix element method in events with one muon and jets in the final state at $\sqrt{s} = 8$ TeV	19.7/fb	public	CMS PAS TOP-13-015 ↗
May 2015	TOP-14-021	Measurement of top quark pair production in association with a W or Z boson using event reconstruction techniques	19.7/fb	public	CMS PAS TOP-14-021 ↗
March 2015	TOP-13-017	Search for top quark decays via Higgs-boson-mediated flavor changing neutral currents in pp collisions at $\sqrt{s} = 8$ TeV	19.7/fb	public	CMS PAS TOP-13-017 ↗
September 2014	TOP-14-014	Determination of the top-quark mass from the mlb distribution in dileptonic ttbar events at $\sqrt{s} = 8$ TeV	19.7/fb	public	CMS PAS TOP-14-014 ↗
September 2014	TOP-14-004	Differential measurement of the cross section of single top-quark production in the t-channel at 8 TeV	19.7/fb	public	CMS PAS TOP-14-004 ↗
September 2014	TOP-14-015	Combination of the CMS top-quark mass measurements from Run I of the LHC	up to 19.7/fb	public	CMS PAS TOP-14-015 ↗
September 2014	TOP-14-009	Combination of ATLAS and CMS cross-section measurements of associated production of a single top-quark and a W boson at 8 TeV	12.2-20.3/fb	public	CMS PAS TOP-14-009 ↗
September 2014	TOP-14-016	Combination of ATLAS and CMS top pair cross-section measurements in the e-mu final state at 8 TeV	5.3-20.3/fb	public	CMS PAS TOP-14-016 ↗
September 2014	TOP-14-010	Measurement of the top mass in dilepton ttbar decays at 8 TeV	19.7/fb	public	CMS PAS TOP-14-010 ↗
July 2014	TOP-14-002	Measurement of the top mass in the fully hadronic channel at 8 TeV	18.2/fb	public	CMS PAS TOP-14-002 ↗
July 2014	TOP-14-005	Limits on top-quark chromomagnetic dipole moments from angular distributions	5 /fb	public	CMS PAS TOP-14-005 ↗
June 2014	TOP-12-026	Measurement of the ttbar production cross section in pp collisions at 8 TeV in the e-tau and mu-tau dilepton final states	19.6 /fb	public	no PAS
May 2014	TOP-12-036	Measurement of top pair production in association with a W or Z boson at 8 TeV	19.5 /fb	public	no PAS
May 2014	TOP-14-007	Limits on anomalous couplings and FCNC in t-channel single top	5 /fb	public	CMS PAS TOP-14-007 ↗
May 2014	TOP-14-003		19.1 /fb	public	

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		Search for anomalous single top + photon production (FCNC)			CMS PAS TOP-14-003 ↗
March 2014	TOP-14-001	Measurement of the top mass in the lepton+jets channel at 8 TeV	19.6 /fb	public	CMS PAS TOP-14-001 ↗
March 2014	TOP-14-006	Combination of ATLAS and CMS ttbar charge asymmetry	5/fb	public	CMS PAS TOP-14-006 ↗
March 2014	TOP-13-014	First combination of Tevatron and LHC measurements of the top quark mass	up to 8.7/fb	public	CMS PAS TOP-13-014 ↗ arXiv ↗
January 2014	TOP-13-012	Search for standard model four top quark production at 8 TeV in the lepton + jets channel	19.6 /fb	public	CMS PAS TOP-13-012 ↗
November 2013	TOP-13-011	Measurement of the top-quark pair + photon production cross section in the muon+jets channel at 8 TeV	19.7 /fb	public	CMS PAS TOP-13-011 ↗
November 2013	TOP-13-009	Search for single-top production in the s channel at 8 TeV	19.7 /fb	public	CMS PAS TOP-13-009 ↗
October 2013	FTR-13-016	Projections for Top FCNC Searches in 3000/fb at the LHC	up to 3/ab	public	CMS PAS FTR-13-016 ↗
October 2013	FTR-13-017	Projected improvement of the accuracy of top-quark mass measurements at the upgraded LHC	up to 3/ab	public	CMS PAS FTR-13-017 ↗
September 2013	TOP-13-010	Measurement of Cross Section Ratio $\sigma(\text{ttbb})/\sigma(\text{ttjj})$ in pp Collisions at 8 TeV	19.6 /fb	public	CMS PAS TOP-13-010 ↗
September 2013	TOP-13-005	Combination of ATLAS and CMS results on the mass of the top quark using up to 4.9/fb of data	up to 4.9/fb	public	CMS PAS TOP-13-005 ↗
September 2013	TOP-13-002	Combination of the CMS measurements of the mass of the top quark based on data recorded between 2010 and 2012	up to 20 /fb	public	CMS PAS TOP-13-002 ↗
September 2013	TOP-13-001	Measurement of top-quark polarization in t-channel single-top production	20 /fb	public CMS-only	CMS PAS TOP-13-001 ↗
September 2013	TOP-13-008	Measurement of the W-boson helicity in top decays from tt^- production in lepton+jets events at the LHC at $\sqrt{s}=8$ TeV	19.6 /fb	public	CMS PAS TOP-13-008 ↗
September 2013	TOP-12-042	Measurement of missing transverse energy and other event-level observables in top pair events at $\sqrt{s}=8$ TeV	19.7 /fb	public	CMS PAS TOP-12-042 ↗
September 2013	TOP-12-033	Measurement of the ttbar charge asymmetry with lepton+jets events at 8 TeV	19.7 /fb	public	CMS PAS TOP-12-033 ↗
September 2013	TOP-12-002	Combination of single top-quark cross-section measurements in the t-channel at $\sqrt{s}=8$ TeV with the ATLAS and CMS experiments	5-5.8 /fb	public	CMS PAS TOP-12-002 ↗
September 2013	TOP-13-007	Study of the underlying event, b-quark fragmentation and hadronization properties in ttbar	19.7 /fb	public	CMS PAS TOP-13-007 ↗

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		events			
July 2013	TOP-12-030	Measurement of the top quark mass using the B-hadron lifetime technique	19.6 /fb	public	CMS PAS TOP-12-030 ↗
July 2013	TOP-12-040	Observation of Associated Production of a Single Top Quark and W Boson in pp Collisions at 8 TeV	12.2 /fb	public CMS-only	CMS PAS TOP-12-040 ↗
July 2013	TOP-12-021	Search for Flavor Changing Neutral Currents in tZ events in proton-proton collisions at 7 TeV	5.0 /fb	public	CMS PAS TOP-12-021 ↗
July 2013	TOP-11-020	Measurement of the W polarisation in top decays from t-tbar production in lepton+jets events at the LHC	5.0/fb	public	
May 2013	TOP-12-041	Measurement of the Jet Multiplicity in Di-leptonic Top Quark Pair events at 8 TeV	19 /fb	public	CMS PAS TOP-12-041 ↗
May 2013	TOP-12-037	Search for flavor changing neutral currents (FCNC) in top quark decays in proton-proton collisions at 8 TeV	19 /fb	public	CMS PAS TOP-12-037 ↗
March 2013	TOP-12-031	Measurement of the top/antitop mass difference	19 /fb	public	CMS PAS TOP-12-031 ↗
February 2013	TOP-12-038	Measurement of the top/antitop production ratio in single top t-channel production at 8 TeV	12.2 /fb	public	CMS PAS TOP-12-038 ↗
February 2013	TOP-12-025	Measurement of W-helicity fractions in top decays (LHC combination)		public	CMS PAS TOP-12-025 ↗
February 2013	TOP-12-015	Measurement of W-helicity fractions in top pair production with dileptons	5.0 /fb	public	CMS PAS TOP-12-015 ↗
February 2013	TOP-12-020	Measurement of W-helicity fractions in single top events topology	6.4 /fb	public	CMS PAS TOP-12-020 ↗
February 2013	TOP-12-027	Measurement of the differential ttbar cross section in the lepton+jets channel at 8 TeV	12.1 /fb	public	CMS PAS TOP-12-027 ↗
February 2013	TOP-12-028	Measurement of the differential ttbar cross section in the dilepton channel at 8 TeV	12.1 /fb	public extra: "pseudotop"	CMS PAS TOP-12-028 ↗
February 2013	TOP-12-029	Study of the dependence of the top-quark mass measurement on event kinematics	5.0 /fb	public	CMS PAS TOP-12-029 ↗
February 2013	TOP-12-035	Measurement of the ratio $B(t \text{ to } Wb)/B(t \text{ to } Wq)$	16.7 /fb	public CMS-only	CMS PAS TOP-12-035 ↗
November 2012	TOP-12-018	Measurement of jet multiplicity top pair events	5.0 /fb	public	CMS PAS TOP-12-018 ↗
November 2012	TOP-12-010	Top charge asymmetry measurement in dileptons at 7 TeV	5.0 /fb	public	CMS PAS TOP-12-010 ↗
September 2012	TOP-12-003	LHC Cross section combination	1.0 /fb		CMS PAS TOP-12-003 ↗
September 2012	TOP-12-019	Measurement of MET in tt events at 7TeV	5.0 /fb	public CMS-only	CMS PAS TOP-12-019 ↗
September 2012	TOP-12-011	Single top in t-channel at 8TeV	5.0 /fb	public	CMS PAS TOP-12-011 ↗
September 2012	TOP-11-027	Top mass with the kinematic endpoints method	5.0 /fb	public	CMS PAS TOP-11-027 ↗

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September 2012	TOP-12-023	Measurement of jet multiplicity in dilepton events at 7TeV	5.0 /fb	public CMS-only	CMS PAS TOP-12-023 ↗
September 2012	TOP-12-024	Measurement of $\sigma(ttbb)/\sigma(ttjj)$ at 7TeV	5.0 /fb	public	CMS PAS TOP-12-024 ↗
September 2012	TOP-11-018	Combination of CMS results on the mass of the top quark using up to 5.0 /fb	up to 5.0 /fb	public	CMS PAS TOP-11-018 ↗
September 2012	TOP-11-017	Measurement of the top-quark mass in all-jets final states	3.5/fb	public	CMS PAS TOP-11-017 ↗
September 2012	TOP-12-022	First Determination of the Strong Coupling Constant from the $t\bar{t}$ Cross Section	5/fb	public	CMS PAS TOP-12-022 ↗
July 2012	TOP-12-006	Cross section measurement in the $l+jets$ channel at 8 TeV	2.8/fb	public	CMS PAS TOP-12-006 ↗
July 2012	TOP-12-007	Cross section measurement in the di-lepton channel at 8 TeV	2.3/fb	public	CMS PAS TOP-12-007 ↗
July 2012	TOP-12-001	LHC Top mass combination		public	CMS PAS TOP-12-001 ↗
July 2012	TOP-12-004	Top spin correlations in the di-lepton channel	4.9/fb, 7TeV	public	CMS PAS TOP-12-004 ↗
July 2012	TOP-12-014	First measurement of $t\bar{t}\nu$	4.9/fb, 7TeV	public	CMS PAS TOP-12-014 ↗
July 2012	TOP-12-016	Top polarisation with the di-lepton channel	4.9/fb, 7TeV	public	CMS PAS TOP-12-016 ↗
May 2012	TOP-11-004	Measurement of the $t\bar{t}$ production cross section in the tau-plus-jets channel in pp collisions at 7 TeV	3.9/fb	public	CMS PAS TOP-11-004 ↗
April 2012	TOP-11-010	Search for Z' resonances in fully leptonic top pair production	4.9/fb	public	CMS PAS TOP-11-010 ↗
February 2012	TOP-11-028	Search for Flavour Changing Neutral Currents in top quark decays	4.6/fb	public	CMS PAS TOP-11-028 ↗
February 2012	TOP-11-021	Measurement of the single top t-channel production cross section	1.1-1.5/fb	public CMS-only	CMS PAS TOP-11-021 ↗
February 2012	TOP-11-009	A Search for resonances in semileptonic top pair production	4.9/fb	public CMS-only	CMS PAS TOP-11-009 ↗
February 2012	TOP-11-029	First measurement of $R = B(t \rightarrow Wb)/B(t \rightarrow Wq)$ in the dilepton channel	2.2/fb	public CMS-only	CMS PAS TOP-11-029 ↗
February 2012	TOP-11-031	Constraints on the Top-Quark Charge from Top-Pair Events	4.9/fb	public	CMS PAS TOP-11-031 ↗
February 2012	TOP-11-030	Differential measurements of the charge asymmetry in top quark pair production	4.9/fb	public	CMS PAS TOP-11-030 ↗
February 2012	TOP-11-015	Measurement of the top mass using the lepton+jets channel	4.9/fb	public	CMS PAS TOP-11-015 ↗
February 2012	TOP-11-016	Measurement of the top mass by using the di-lepton channel	2.3/fb	public public	CMS PAS TOP-11-016 ↗
February 2012	TOP-11-013	Top pair differential cross sections	1.1/fb	public	CMS PAS TOP-11-013 ↗
November 2011	TOP-11-024	Top pair cross section combination	0.8-1.1/fb	public	CMS PAS TOP-11-024 ↗
September	TOP-11-008	Top mass from the cross section in	1.1/fb	public	CMS PAS

2011		dileptons		CMS-only	TOP-11-008 ↗
September 2011	TOP-11-003	Top pair cross section in lepton+jets+btag	0.8-1.1/fb	public CMS-only	CMS PAS TOP-11-003 ↗
September 2011	TOP-11-022	Search for single top production in the tW-channel	2.1/fb	public	CMS PAS TOP-11-022 ↗
August 2011	TOP-11-019	Top quark-antiquark mass difference	1.1/fb	public	CMS PAS TOP-11-019 ↗
July 2012	TOP-11-005	Top pair cross section in dilepton channel	2.3/fb	public CMS-only	CMS PAS TOP-11-005 ↗
July 2011	TOP-11-014	Top pair charge asymmetry	1.1/fb	public CMS-only	CMS PAS TOP-11-014 ↗
July 2011	TOP-11-007	Top pair cross section in hadronic channel	1.1/fb	public CMS-only	CMS PAS TOP-11-007 ↗
July 2011	TOP-11-006	Top pair cross section in tau dilepton channel	1.1/fb	public CMS-only	CMS PAS TOP-11-006 ↗
June 2011	TOP-10-009	Top mass in l+jets	36/pb	public	CMS PAS TOP-10-009 ↗
March 2011	TOP-10-007	Top pair invariant mass and search for new physics	36/pb	public	CMS PAS TOP-10-007 ↗

- List of Physics Analysis Summaries in CDS [↗](#)

Other CMS results of immediate relevance to TOP

Date	ID	Analysis	CDS Document
November 2015	JME-15-001	Jet energy scale uncertainty correlations between ATLAS and CMS at 8 TeV	link ↗
November 2014	JME-14-003	Jet energy scale uncertainty correlations between ATLAS and CMS	link ↗
September 2014	JME-13-001	Calculation of Residual Energy Correction for b Jets Using Z+b Events in 8 TeV pp Collisions	link ↗
February 2014	JME-13-007	Boosted Top Jet Tagging at CMS	link ↗

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