

# Table of Contents

<b>CMS Public Projected Physics Results.....</b>	<b>1</b>
Most recent results (studies for the HL/HE-LHC Yellow Report).....	1
CMS Phase-2 TDRs Documents.....	1
Older CMS Upgrade and Physics Documents.....	1
CMS Phase-1 TDR.....	2

# CMS Public Projected Physics Results

## Most recent results (studies for the HL/HE-LHC Yellow Report)

Most recent results for Phase-2 HL-LHC Projections [↗](#)

## CMS Phase-2 TDRs Documents

Phase-2 CMS TDR's	CDS/ArXiv Entry
The Phase-2 Upgrade of the CMS Endcap Calorimeter	<a href="#">CERN-LHCC-2017-023</a> <a href="#">↗</a>
The Phase-2 Upgrade of the CMS Muon Detectors	<a href="#">CERN-LHCC-2017-012</a> <a href="#">↗</a>
The Phase-2 Upgrade of the CMS Barrel Calorimeters Technical Design Report	<a href="#">CERN-LHCC-2017-011</a> <a href="#">↗</a>
The Phase-2 Upgrade of the CMS Tracker	<a href="#">CERN-LHCC-2017-009</a> <a href="#">↗</a>
CMS Phase II Upgrade Scope Document	<a href="#">CERN-LHCC-2015-019</a> <a href="#">↗</a> , <a href="#">LHCC-G-165</a> <a href="#">↗</a>
Technical Proposal for the Phase-II Upgrade of the CMS Detector	<a href="#">CERN-LHCC-2015-010</a> <a href="#">↗</a> , <a href="#">CMS-TDR-15-002</a> <a href="#">↗</a>

## Older CMS Upgrade and Physics Documents

Study	CDS/ArXiv Entry	Projected Luminosity	Additional Plots and Information
Plots from Muon Upgrade TDR-17-003	<a href="#">CERN-LHCC-2017-012</a> <a href="#">↗</a>	Up to 3000/fb	Approved Plots
SUSY: Performance plots for the HE-HL Workshop (April 4-6) in Fermilab		Up to 3000/fb	Approved Plots
Object performance as a function of pileup density for CMS PhaseII	<a href="#">CMS DP-2017/060</a> <a href="#">↗</a>	Up to 3000/fb	
Prospects for measuring $\sin^2(\theta_{\text{eff}})$ using $A_{\text{FB}}$ in dimuon events for HL- LHC	<a href="#">PAS-FTR-17-001</a> <a href="#">↗</a>	Up to 3000/fb	Plots <a href="#">↗</a>
Projected Heavy Ion Physics Performance at the High Luminosity LHC Era with the CMS Detector (HL-LHC workshop 2018)	<a href="#">PAS FTR-17-002</a> <a href="#">↗</a>	10 nb <sup>-1</sup>	Plots <a href="#">↗</a>
Estimated sensitivity for new particle searches at the HL-LHC (ECFA 2016)	<a href="#">PAS FTR-16-005</a> <a href="#">↗</a>	Up to 3000/fb	Plots <a href="#">↗</a>
Projected performance of Higgs Analyses at the HL-LHC for ECFA 2016	<a href="#">PAS FTR-16-002</a> <a href="#">↗</a>	Up to 3000/fb	Plots <a href="#">↗</a>
Prospects for Standard Model measurements with the CMS experiment at the HL-LHC	<a href="#">PAS FTR-16-006</a> <a href="#">↗</a>	Up to 3000/fb	Plots <a href="#">↗</a>
Tracking Performance of the CMS Phase-2 Tracker	<a href="#">CMS DP-2017/010</a> <a href="#">↗</a>	Up to 3000/fb	
Physics Projections for 3rd ECFA workshop	<a href="#">CMS-DP-2016-064</a> <a href="#">↗</a>	Up to 3000/fb	ppt
Physics Objects Performance for 3rd ECFA workshop	<a href="#">CMS-DP-2016-065</a> <a href="#">↗</a>	Up to 3000/fb	ppt
CMS Technical Design Report for the muon endcap GEM upgrade	<a href="#">TDR-15-001</a> <a href="#">↗</a>		
Prospects for VBS in same sign WW/WZ with High Luminosity LHC	<a href="#">CMS-PAS-SMP-14-008</a> <a href="#">↗</a>	Up to 3000/fb	Plots <a href="#">↗</a>
Enhanced scope of a Phase 2 CMS detector for the study of exotic signatures at the	<a href="#">PAS-EXO-14-007</a> <a href="#">↗</a>	Up to 3000/fb	Plots <a href="#">↗</a>

HL-LHC			
Higgs pair production at the High Luminosity LHC	<a href="#">CMS-PAS-FTR-15-002</a>	Up to 3000/fb	<a href="#">Plots</a>
Supersymmetry discovery potential in future LHC and HL-LHC	<a href="#">CMS-PAS-SUS-14-012</a>	Up to 3000/fb	Plots
Physics Performance for 2nd ECFA workshop		Up to 3000/fb	pptx, pdf
Projection of Higgs to ZZ to 4l Measurements for ECFA	<a href="#">CMS-PAS-FTR-13-003</a>	Up to 3000/fb	Plots
Projection of V V Scattering Measurements for ECFA	<a href="#">CMS-PAS-FTR-13-006</a>	Up to 3000/fb	Plots
Projections of SUSY Searches for ECFA	<a href="#">CMS-PAS-FTR-13-014</a>	Up to 3000/fb	Plots
Projection of Top FCNC Searches for ECFA	<a href="#">CMS-PAS-FTR-13-016</a>	Up to 3000/fb	Plots
Projection of Top Quark Mass Uncertainty for ECFA	<a href="#">CMS-PAS-FTR-13-017</a>	Up to 3000/fb	Plots
Projection of B to mu mu measurements for ECFA	<a href="#">CMS-PAS-FTR-13-022</a>	Up to 3000/fb	Plots
Projection of 2HDM Higgs Studies for ECFA	<a href="#">CMS-PAS-FTR-13-024</a>	Up to 3000/fb	Plots
Projection of Heavy Ions for ECFA	<a href="#">CMS-PAS-FTR-13-025</a>	Up to 3000/fb	
Projection of Vector-like Top Quark (T') Searches for ECFA	<a href="#">CMS-PAS-FTR-13-026</a>	Up to 3000/fb	
Expected pileup values at the HL-LHC	<a href="#">CMS-NOTE-2013-003</a>	Up to 3000/fb	
CMS Submission to Snowmass	<a href="#">CMS-NOTE-2013-002</a>	Up to 3000/fb	Higgs, SUSY
CMS Submission to European Strategy Group	<a href="#">CMS-NOTE-2012-006</a>	Up to 3000/fb	Higgs

## CMS Phase-1 TDR

Study	CDS/ArXiv Entry	Projected Luminosity	Additional Plots and Information
L1 Trigger Phase I Upgrade TDR	<a href="#">CERN-LHCC-2013-011</a>	Up to 300/fb	Summary Plots
HCAL Phase I Upgrade TDR	<a href="#">CERN-LHCC-2012-015</a>	Up to 300/fb	
Pixel Phase I Upgrade TDR	<a href="#">CERN-LHCC-2012-016</a>	Up to 300/fb	
Phase I Upgrade Technical Proposal	<a href="#">CERN-LHCC-2011-006</a>	Up to 300/fb	

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