

Glossary

ADC	Analog to Digital Converter	CFEB	Cathode Front-End Board of the CSC system
AdS	Anti de Sitter space	CLCT	Cathode Local Charged Track trigger primitive, CSC system
AFEB	Anode Front-End Board, CSC system	CLHEP	Class Library for HEP
ALCT	Anode Local Charged Track trigger primitive, CSC system	CMKIN	CMS Kinematics Package (legacy Fortran)
ALEPH	An experiment at LEP	CMN	Common Mode Noise
ALICE	A Large Ion Collider Experiment at the LHC	CMS	Compact Muon Solenoid experiment
ALPGEN	Monte Carlo event generator for multi-parton processes in hadronic collisions	CMSIM	CMS Simulation Package (legacy Fortran)
AOD	Analysis Object Data - a compact event format for physics analysis	CMSSW	CMS Software framework
APD	Avalanche Photo-Diode	COSINE	Consistent Online Software Integration Environment, project integrating online with offline software
API	Application Programming Interface	CPT	Computing, Physics, TriDAS and software projects of CMS
APV	Analogue Pipeline (Voltage mode), front-end readout chip of Tracker	CRack	Cosmic Rack, a set of TOB rods
ASIC	Application Specific Integrated Circuit	CPU	Central Processing Unit
ATLAS	A Toroidal LHC Apparatus experiment	COBRA	Coherent Object-oriented Base for Reconstruction, Analysis and simulation (Framework)
BLOB	Binary Large Object	CORBA	Common Object Request Broker Architecture
BMU	Barrel Muon system	COCOA	CMS Object-oriented Code for optical Alignment
BR	Branching Ratio	CompHEP	Monte Carlo event generator for high-energy physics collisions
BTI	Bunch and Track Identifier trigger primitive, DT system	CPT	Computing, Physics, TriDAS and Software projects
BU	Builder Unit	CRC	Cyclic Redundancy Check error detection
BX	Bunch Crossing	CSC	Cathode Strip Chamber muon system
BXN	Bunch Crossing Number	CVS	Concurrent Versions System
CAD	Computer-Aided Design	DØ	Experiment at the FNAL Tevatron
CASTOR	Calorimeter in the forward region of CMS	D2S	Data to Surface
CC	Cosmic Challenge	DAC	Digital to Analog Converter
CCS	Clock and Control System	DAQ	Data Acquisition
CDF	Collider Detector Facility experiment at the FNAL Tevatron		

DBMS	Database Management System	FED	Front-End Driver
DCC	Data Concentrator Card	FENIX	ECAL front-end readout ASIC
DCS	Detector Control System	FEVT	Event format comprising the union of RAW and RECO data
DCU	Detector Control Unit	FMM	Fast Merging Module
DDD	Detector Description Database	FIFO	First In First Out buffer
DDL	Data Description Language	FLUKA	Computer program for hadron shower calculations
DDU	Detector Dependent Unit in DAQ system	FNAL	Fermi National Accelerator Laboratory, USA
DELPHI	An experiment at LEP	FPGA	Field Programmable Gate Array
DESY	Deutsches Elektronen Synchrotron laboratory, Hamburg	FSR	Final State Radiation
Digi	Digitisation (of detector hit)	FU	Filter Unit
DMB	DAQ MotherBoard of CSC system	Garfield	Computer program for electromagnetic field calculation
DOH	Digital Opto-Hybrid	Gb	Gigabit (10^9 bits)
DQM	Data Quality Monitoring	GB	Gigabyte (10^9 bytes)
DST	Data Summary Tape - a compact event format	GCALOR	Computer program for hadron shower calculations
DT	Drift Tube muon system	GCT	Global Calorimeter Trigger (L1)
DY	Drell-Yan	GEANT	Detector simulation framework and toolkit
EB	Electromagnetic Calorimeter (Barrel)	GIF	Gamma Irradiation Facility
ECAL	Electromagnetic Calorimeter	GMR	Global Muon Reconstructor
ED	Extra Dimensions	GMSB	Gauge Mediated Symmetry Breaking
EDM	Event Data Model	GMT	Global Muon Trigger (L1)
EDMS	Engineering Database Management System	GOL	Gigabit Optical Link
EGEE	Enabling Grids for e-science in Europe (a Grid project)	Grid	Infrastructure for distributed computing
EE	Electromagnetic Calorimeter (Endcap)	GSF	Gaussian Sum Filter
ELMB	Embedded Local Monitoring Board (ECAL)	GT	Global Trigger (L1)
EM	Electromagnetic	GUI	Graphical User Interface
EMDB	Equipment Management DataBase	GUT	Grand Unified Theory
EMU	Endcap Muon system	H1	An experiment at the DESY HERA collider
ENC	Equivalent Noise Charge	H2	Beamline at CERN
ES	Endcap preShower detector	HAD	Hadronic
ESNET	Energy Science Network (in the USA)	HCAL	Hadron Calorimeter
ESS	ECAL Safety System	HB	Hadron Calorimeter (Barrel)
EVB	Event Builder	HE	Hadron Calorimeter (Endcap)
EVF	Event Filter Farm	HEP	High Energy Physics
EVM	Event Manager	HEPEVT	HEP Event (generated event format)
EW	ElectroWeak	HERA	Electron-proton collider at DESY
Express Line	Online stream for events requiring high priority and low latency offline processing	HERWIG	Hadron Emission Reactions With Interfering Gluons, a monte Carlo event generator for high-energy physics collisions
FAMOS	CMS Fast Simulation	HF	Hadron Calorimeter (Forward)
FE	Front-End	HG	High Gain
FEC	Front-End Card		

HI	Heavy Ion(s)	LHC	Large Hadron Collider
HIJING	Heavy Ion Jet INteraction Generator, Monte Carlo event generator for heavy-ion collisions	LHCb	Large Hadron Collider Beauty experiment
HIP	Hits and Impact Point alignment method, also Highly Ionizing Particle	LHCC	LHC (review) Committee
HLT	High-Level Trigger	LHEP	Physics model of GEANT4
HM	Humidity Monitoring	LL	Leading Logarithm, also Log Likelihood
HO	Hadron Calorimeter (Outer Barrel)	LO	Leading Order calculation
HPD	Hybrid Photo-Diode	LOI	Letter Of Intent
HTML	Hypertext Mark-up Language	LPC	LHC Physics Center, Fermilab
HTR	HCAL Trigger and Readout	LS	Like-Sign
HV	High Voltage	LSB	Least Significant Bit
ICC	Internal Calibration Circuit, preshower	LSP	Lightest Supersymmetric Particle
IGUANA	Interactive Graphics for User ANalysis - used for the CMS Event Display Package	LUT	Look-Up Table
I/O	Input/Output	LV	Low Voltage
IOMC	Input/Output Monte Carlo service	LVDS	Low Voltage Differential Signaling
IOV	Interval Of Validity	LVRB	Low Voltage Regulator Board
IP	Impact Parameter, also Impact Point or Internet Protocol	MA	Module Alignment
ISR	Initial State Radiation, also Intersecting Storage Ring collider at CERN	MAB	Module Alignment of Barrel
IT	Information Technology	Mb	Megabit (10^6 bits)
JES	Jet Energy Scale	MB	Muon system (Barrel), also Mother Board or Megabyte (10^6 bytes)
Kalman Filter	Computational method for fitting tracks	MC	Monte Carlo simulation program/technique, also Mini-Crate of DT system
kb	kilobit (10^3 bits)	ME	Muon system (Endcap), also Matrix Element or Monitoring Element
kB	kilobytes (10^3 bytes)	MET	Missing Transverse Energy
L1	Level-1 hardware-based trigger	metadata	Data describing characteristics of other data
L1A	Level-1 Accept	MGPA	Multiple Gain Pre-Amplifier chip, ECAL
L3	An experiment at LEP	MILLEPEDE	Algorithm for tracker alignment
LAN	Local Area Network	MIP	Minimum Ionizing Particle
LAS	Laser Alignment System	MPC	Muon Port Card, CSC L1 trigger
LCG	LHC Computing Grid (a common computing project)	MSUGRA	Minimal Super GRAvity model of supersymmetry
LCT	Local Charged Track trigger primitive of CSC system	MSSM	Minimal SuperSymmetric Model
LED	Large Extra Dimenstions, also Light Emitting Diode	MT	Mean Time
LEP	Large Electron Positron collider at CERN	MTCC	Magnet Test Cosmic Challenge
LG	Low Gain	ndf	number of degrees of freedom
		NLO	Next-to-Leading Order calculation
		NN	Neural Network
		NNLO	Next-to-Next-to-Leading Order calculation
		NS	Numbering Scheme

O2O	Online to Offline	PYTHIA	Monte Carlo event generator for high-energy physics collisions
ODBMS	Object Database Management System	QCD	Quantum Chromodynamics
OMDS	Online Master Data Storage	QED	Quantum Electrodynamics
Online Stream	Grouping of events (Primary Datasets) to simplify online data management	QGSP	Physics model of GEANT4
OO	Object Oriented	QPLL	Quartz Phase-Locked Loop
OPAL	An experiment at LEP	RAW	Event format from the online containing full detector and trigger data
ORA	Object Relational database	RECO	Event format for reconstructed objects such as tracks, vertices, jets, etc.
ORCA	Object-oriented Reconstruction for CMS Analysis	RecHit	Reconstructed hit in a detector element
ORCOF	Offline ReConstruction Offline subset, conditions database	RHIC	Relativistic Heavy Ion Collider (at Brookhaven, USA)
ORCON	Offline ReConstruction ONLINE subset, conditions database	RMS	Root Mean Square
OS	Opposite-Sign, also Operating System	ROB	ReadOut Board, DT system
OSCAR	Object-oriented Simulation for CMS Analysis and Reconstruction	ROC	ReadOut Chip, pixels
Oval	Software testing tool	ROOT	An object-oriented data analysis framework
P5	Point 5 collision area of LHC	ROS	ReadOut Server board, DT system
PAW	Physics Analysis Workstation (legacy interactive analysis application)	RPC	Resistive Plate Chamber muon system
PACE	Preshower front end ASIC	Savannah	Issue tracking system
PACT	PATtern Comparator Trigger, RPC system	SCA	Switched Capacitor Array buffer, CSC system
PB	Petabyte (10^{15} bytes)	SCADA	Supervisory Control And Data Acquisition
PC	Personal Computer	SCRAM	Software Configuration, Release And Management tool
PD	Pixel Detector	SFM	SubFarm Manager
PDF	Parton Density Function, also Probability Distribution Function	Skim	Subset of events selected from a larger set
PLC	Programmable Logic Controller (ECAL)	SLB	Synchronization and Link Board
PLD	Programmable Logic Device	SLT	Soft Lepton Tag
PLT	Pixel Luminosity Telescope	SM	Standard Model, also Super-Module (ECAL) or Storage Manager (DAQ)
POOL	Persistency software from LCG	SMB	System Mother Board
Primary Dataset	Grouping of events according to physics (trigger) criteria	S/N	Signal to Noise ratio
provenance	The record of how a particular reconstruction result was obtained	SOAP	Simple Object Access Protocol
PRS	Physics Reconstruction and Selection groups	SPS	Super Proton Synchrotron collider at CERN
PS	Proton Synchrotron, also Parton Showers	SRP	Selective Readout Processor
PTM	Precision Temperature Monitoring, ECAL	SS	Same-Sign
PV	Primary Vertex	SST	Silicon Strip Tracker
		STL	Standard Template Library
		SUSY	SUperSYmmetry
		SV	Secondary Vertex
		SX5	Surface hall at Point 5 for CMS

T1, T2	Tracking telescopes of TOTEM	UA1	An experiment at the CERN SPS collider
TAG	Event index information such as run/event number, trigger bits, etc.	UA2	An experiment at the CERN SPS collider
Tb	Terabit (10^{12} bits)	UE	Underlying Event
TB	Terabyte (10^{12} bytes)	UED	Universal Extra Dimensions
TCC	Trigger Concentrator Card	USC55	Underground Service Cavern at Point 5 for CMS
TCP	Transmission Control Protocol	UXC55	Underground eXperimental Cavern at Point 5 for CMS
TDC	Time to Digital Converter	VBF	Vector Boson Fusion
TDR	Technical Design Report	VBT	Vacuum phototriode
TEC	Tracker EndCap	VFE	Very Front End
TF	Track-Finder, muon L1 trigger	VPT	Vacuum PhotoTriode
TIB	Tracker Inner Barrel	WAN	Wide Area Network
TID	Tracker Inner Disks	WLS	WaveLength Shifting
TMB	Trigger MotherBoard, CSC L1 trigger	WWW	World Wide Web
TOB	Tracker Outer Barrel	XDAQ	Software framework for CMS Data Acquisition
TOTEM	Separate experiment at P5 for forward physics	XML	eXtensible Markup Language
TPD	Tracker Pixel Detector	YB	Yoke (Barrel)
TPG	Trigger Primitive Generator	YE	Yoke (Endcap)
TRACO	TRAck COrrrelator, DT L1 trigger	ZDC	Zero Degree Calorimeter
TriDAS	Trigger and Data Acquisition project	ZEUS	An experiment at the DESY HERA collider
TRLB	Token Ring Link Board		
TS	Trigger Server, DT L1 trigger		
TTC	Trigger Timing and Control		
TTS	Trigger Throttling System		

