

A Acronyms

Table 17 lists acronyms used.

Table 17: List of acronyms.

Acronym	Explanation
ADC	Analog to Digital Converter
AE	Acquisition Executive
APD	Avalanch Photo Diode
AS	Acquisition Strategy
ASIC	Application Specific Integrated Circuit
ATCA	Advanced Telecommunications Computing Architecture
ATLAS	A Toroidal LHC Apparatus
BFA	Office of Budget, Finance and Award Management (NSF)
BOE	Basis of Estimate
BSR	Business Systems Review
CAIRS	Computerized Accident and Injury Report System
CAM	Charge Account Manager
CCB	Configuration Control Board
CCS	Clock and Control System
CDR	Conceptual Design Review
CERN	European Center for Particle Physics
CM	Configuration Management
CMP	Configuration Management Program
CMOS	Complementary Metal-Oxide Semiconductor
CMS	Compact Muon Solenoid
CMSSW	CMS SoftWare
CSC	Cathode Strip Chambers
DACS	Division of Acquisition and Cooperative Support (NSF)
DART	Days Away, Restricted, or Transferred
DAQ	Data Acquisition
DC	Direct Current
DCR	Document Change Request
DCS	Detector Control and Safety System
DGA	Division of Grants and Agreements (NSF)
DocDB	Document Database (CMS)
DOE	U.S. Department of Energy
DOE-SC	DOE Office of Science
DPM	Deputy Project Manager
DT	Drift Tubes
EB	Barrel Electromagnetic Calorimeter
EC	Endcap Calorimeter
ECAL	Electromagnetic Calorimeter
EDMS	Engineering and Equipment Data Management Service (CERN)
EDR	Engineering Design Review

Continued on next page

Table 17 – continued from previous page

Acronym	Explanation
ES&H	Environment, Safety and Health
ESR	Electronics Subsystem Review
EVMS	Earned Value Management System
FE	Front End
Fermilab	Fermi National Accelerator Laboratory
FPIX	Forward Pixel Detector
FRA	Fermi Research Alliance, LLC
FPGA	Field Programable Gate Array
GBTX	Gigabit Transceiver
GEM	Gaseous Electron Multiplication
GIF++	Gamma Irradiation Facility (CERN)
GPM	Grant Policy Manual (NSF)
HB	Barrel Hadron Calorimeter
HCAL	Hadron Calorimeter
HEPAP	High Energy Physics Advisory Panel
HL-LHC	High Luminosity LHC
HPI	Human Performance Improvement
HSE	Health, Safety, and Environment (CERN)
ISM	Integrated Safety Management
JOG	Joint Operations Group
KPP	Key Performance Parameters
L1T	Level 1 Trigger
LEED	Leadership in Energy and Environmental Design
LHC	Large Hadron Collider
LHCC	LHC Experiments Committee
LS1	Long Shutdown 1 (2013 and 2014)
LS2	Long Shutdown 2 (2019 and 2020)
LS3	Long Shutdown 3 (2024—2026)
LVR	Low-Voltage Regulator
MIE	Major Item of Equipment
MOU	Memorandum of Understanding
MPS	Mathematical and Physical Sciences (NSF)
MREFC	Major Research Equipment and Facility Construction
NEPA	National Environmental Protection Act
NSF	National Science Foundation
OBS	Organizational Breakdown Structure
ODMB	Optical Data MotherBoard
OGC	Office of General Counsel (NSF)
OH	OptoHybrid
OHEP	Office of High Energy Physics
OLPA	Office of Legislative & Public Affairs
OMB	Office of Management and Budget
OPC	Other Project Costs

Continued on next page

Table 17 – continued from previous page

Acronym	Explanation
ORPS	Occurrence Reporting and Processing System
OT	Outer Tracker
P5	Particle Physics Project Prioritization Panel
PARS	Project Assessment and Reporting System
PEP	Project Execution Plan
PHY	NSF Physics Division
PI	Principal Investigator
PM	Project Manager
PMG	Project Management Group
PMP	Project Management Plan
PRR	Procurement Readiness Review
PSAD	Preliminary Safety Assessment Document
R&D	Research and Development
RLS	Resource Loaded Schedule
RMB	Risk Management Board
ROC	Readout Chip
RPC	Resistive Plate Chambers
RRB	Resources Review Board
SAD	Safety Assessment Document
SOW	Statement of Work
SSL	Senior Safety Liaison
TCA	Telecommunications Computing Architecture
TCC	Trigger Concentrator Card
TEC	Total Estimated Cost
TDC	Time to Digital Converter
TDR	Technical Design Report
TP	Technical Proposal
TPC	Total Project Cost
TRC	Total Recordable Case
TT	Track Trigger
UCG	Upgrade Costing Group
VBF	Vector Boson Fusion
VFE	Very Front End
WBS	Work Breakdown Structure