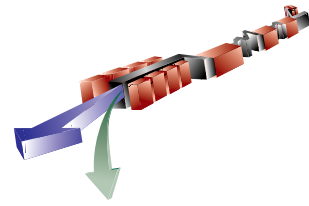


C

Glossary



ACO	Anneaux Collisions Orsay, 500 MeV storage ring, LURE, Orsay, France
ADC	Analog to Digital Converter
ADONE	1.5 GeV storage ring, Frascati, Italy
ALS	Advanced Light Source (LBNL)
AMPERES 3D	Magnet Modeling Code
ANL	Argonne National Laboratory
APS	Advanced Photon Source (ANL)
ASSET	Accelerator Structure Setup
ATF	Accelerator Test Facility (BNL)
BBO	BaB ₂ O ₄ , Beta barium Borate
BC1	Bunch Compressor 1
BC2	Bunch Compressor 2
BC2-ED	Emittance Diagnostic Station following BC2
BCS	Beam Containment System
BES	Basic Energy Sciences (DOE)
BESAC	Basic Energy Sciences Advisory Committee
BNL	Brookhaven National Laboratory
BPM	Beam Position Monitor
BSOIC	Beam Shut-Off Ion Chamber
BTM	Burn Through Monitor
BW	Band Width
CAMAC	Computer Automated Measurement and Control
CCD	Charge Coupled Device

CEBAF	Continuous Electron Beam Accelerator Facility
CEH	(SLC) Collider Experimental Hall
CERN	Organisation Europeenne pour la Recherche Nucleaire
CESR	Cornell Electron Storage Ring
CLIC	CERN Linear Collider
CMM	Co-ordinate Measuring Machine
CNC	Computerized Numerical Control
CPU	Central Processing Unit
Cr:LISAF	Cr:LiSrAlF ₆
CSEM	Charge Sheet Equivalent Magnet
CSR	Coherent Synchrotron Radiation
CW	Continuous Wave
DCI	Dispositive Collisions Igloo, LURE, Orsay, France
DDS	Direct Digital Synthesizer
DESY	Deutsches Elektronen-Synchrotron, Hamburg, Germany
DL1	Dog Leg 1
DL2	Dog Leg 2
DOE	Department of Energy
DORIS	Synchrotron Radiation User Facility, DESY.
DPS	Differential Pumping Station
EA	Environmental Assessment
ED0	150 MeV Emittance Diagnostic Station following L0
ED1	Emittance Diagnostic Station following BC1
ED2	DL2 Emittance Diagnostic Station prior to the undulator
EGS	Electron Gamma Shower
ELETTRA	Synchrotron Radiation User Facility (Trieste, Italy)
ELF	Electron Laser Facility at the Livermore National Lab
EM	Electromagnetic
EPICS	Experimental Physics and Industrial Control System

ESRF	European Synchrotron Radiation Facility
EXAFS	Extended X-ray Absorption Fine Spectroscopy
FEL	Free Electron Laser
FIFO	First In First Out
FFTB	Final Focus Test Beam
FLUKA	FLUctuating KAscades
FODO	Focussing-Drift-Defocusing-Drift
FONSI	Finding of No Significant Impact
FRED-3D	An FEL Simulation Code
FWHM	Full Width at Half Maximum
FY	Fiscal Year
GENESIS 1.3	An FEL Simulation Code
GINGER	An FEL Simulation Code
gpm	gallons per minute
HOM	Higher Order Mode
HPM	Hutch Protection System
HV	High Voltage
HWHM	Half Width at Half Maximum
I&Q	In-phase and Quadrature
ID	Inner Diameter
IE	Invariant Envelope
IEEE	Institute of Electrical and Electronic Engineers
IF	Intermediate Frequency
INFN	Istituto Nazionale di Fisica Nucleare
I/O	Input/Output
IR	Infra-Red
ISR	Incoherent Synchrotron Radiation
KEK	High Energy Accelerator Research Organization
L0	Linac 0

L1	Linac 1
L2	Linac 2
L3	Linac 3
L2-ED	Emittance Diagnostic Station at the end of L2
L3-ED	Emittance Diagnostic Station in Sector 28 in L3
LANL	Los Alamos National Laboratory
LANSCE	Los Alamos Neutron Science Center
LBNL	Lawrence Berkeley National Laboratory
LCLS	Linac Coherent Light Source
LCW	Low Conductivity Water
LED	Light Emitting Diode
LIAR	Linac Accelerator Research, particle tracking code.
LITRACK	Linac Tracking, particle tracking code
LLNL	Lawrence Livermore National Laboratory
LO	Local Oscillator
LURE	Laboratoire pour l'Utilisation du Rayonnement Electromagnetique, Orsay, France
LVDT	Linear Variable Differential Transformer
MAFIA	MA xwell Equations with the Help of a F inite I ntegration A lgorithm (A Family of Codes for Solving Maxwell's Equation)
MAX II	1.5 GeV Storage Ring Synchrotron Light Source, Lund, Sweden
MCC	Main Control Center, SLAC
Mg	Magnesium
MIT	Massachusetts Institute of Technology
MKS	Meter-Kilogram-Second (units)
MPS	Machine Protection System
MUCARLO	Monte Carlo code for muon transport
MUON89	Muon transport code using analytic method
NdFeB	Neodymium-Iron-Boron
Nd:glass	Neodymium:glass

Nd:YAG	Neodymium:Ytterium-Aluminum-Garnet
Nd:YLF	Neodymium:Ytterium-Lithium-Fluoride
NEPA	National Environmental Protection Act
NLC	Next Linear Collider
NSLS	National Synchrotron Light Source (BNL)
OD	Outer Diameter
OFE	Oxygen Free Electrical copper
PARMELA	Phase and Radial Motion in Electron Linear Accelerators, computer tracking code.
PC	Protection Collimator
PEP	Positron Electron Project, SLAC.
PEP-II	Positron Electron Project II (B-factory), SLAC
PETRA	Positron-Electron Tandem Ring Accelerator, DESY.
PLC	Programmable Logic Controller
PLL	Phase-Locked Loop
PLS	Pohang Light Source South Korea
ppm	parts per million
PPS	Personnel Protection System
PRR	Pulse Repetition Rate
PSD	Power Spectral Density
PSD	Photon Stimulated Desorption
PSD	Position Sensitive Detector
QE	Quantum Efficiency
R&D	Research and Development
REC	Rare Earth-Cobalt
RMS	Root Mean Square
RW	Resistive Wall
RWG	Rectangular WaveGuide
SBLC	S-Band Linear Collider (proposed, DESY)
SASE	Self Amplified Spontaneous Emission

SLAC	Stanford Linear Accelerator Center
SLC	SLAC Linear Collider
SLD	SLAC Large Detector
SLED	SLAC Energy Doubler
SMC	Stepper Motor Control
SOR	Synchrotron Orbital Radiation, Tokyo.
SPEAR	Stanford Positron Electron Asymmetric Ring
Spring8	Super Photon Ring 8, Hyogo, Japan
SR	Synchrotron Radiation
SRRC	Synchrotron Radiation Research Center, Hsinchu, Taiwan.
SRS	Synchrotron Radiation Source, Daresbury, England.
SS	Stainless Steel
SSRL	Stanford Synchrotron Radiation Laboratory, SLAC
SUPERFISH	RF modeling code
SVD	Singular Value Decomposition
TESLA	TeV Energy Superconducting Linear Accelerator
TDA3D	3-D FEL simulation code
TE	Transverse Electric
Ti:Sapphire	Titanium Sapphire
TJNAF	Thomas Jefferson National Accelerator Facility
TM	Transverse Magnetic
TROIKA	(ESRF beamline)
UCLA	University of California, Los Angeles
UHV	Ultra High Vacuum
US	United States
UV	Ultra-Violet
VAC	Vacuum port
VACCALC	Vacuum Calculation, computer code to calculate pressures for outgassing.
VAT	Vacuum seal company, Woburn, MA.

VEPP-2M	Vstrechnye Electron – Positron Puchke 2M, Novosibirsk, Russia
VEPP-3	Vstrechnye Electron – Positron Puchke 3, Novosibirsk, Russia
VME	Versa Module Eurocard
VXI	VMEbus eXtension for Instrumentation
VUV	Vacuum Ultra Violet
WCM	Wall Current Monitor
WPM	Wire Position Monitor
XPCS	X-ray Photon Correlation Spectroscopy
XUV	Extreme Ultraviolet
YAG	Ytterium-Aluminum-Garnet