

Acronyms

AA Automatic Alignment

ACA Actuator Cage (a rigid frame attached to F7)

AC Alternating Current

ACC Accelerometer

ADC Analog-to-Digital Converter

AdV Advanced Virgo

ALP Automation of the Locking Procedure

AMC Advanced Mezzanine Card

AMU Atomic Mass Unit

AOM Acousto-Optic Modulator

AR Anti-Reflective

ARM Advanced RISC Machine

BBH Binary Black Holes

BJ Beam Jitter

BNS Binary Neutron Stars

BPC Beam Pointing Control

BRDF Bidirectional Reflectance Distribution Function

BS Beam Splitter

CB Central Building

CC Corrective Coating

CCD Charge-Coupled Device

CHRoCC Central Heating Radius of Curvature Correction

CITF Virgo Central interferometer (6 m armlength test interferometer)

COM Center of Mass

CMRF Common Mode Rejection Factor
CP Compensation Plate
CVS Concurrent Versions System
DAC Digital-to-Analog Converter
DAQ Data Acquisition (in fact, data collection)
DAS Double Axicon System
DARM Differential Arm Length
DC Direct Current
DET Detection Subsystem
DLC Diamond-Like Carbon
DOF Degree(s) of Freedom
DSP Digital Signal Processor
DT Detection Tower
EB End Building
EDB External Detection Bench
EE Electronic Equipment
EIB External Injection Bench
EIB2 Second External Injection Bench
EIB-SAS External Injection Bench-Seismic Attenuation System
EM End Mirror for the arm cavities
EMC Electromagnetic Compatibility
EMI Electromagnetic Interference
ENEB1 External North End Bench 1
ENEB2 External North End Bench 2
EO Electro-Optical
EOM Electro-Optical Modulator
EPRB1 External Power Recycling Pickoff Bench 1
EPRB2 External Power Recycling Pickoff Bench 2
ETM End Test Mass
F0 Filter 0
F7 Filter 7 (also defined steering filter)
FBM Main Frame Builder

FBS Slow Frame Builder
Fd Frame Distribution
FEA Finite Element Analysis
FI Faraday Isolator
FIFO First In First Out
FIR Finite Impulse Response
FOM1 Figure of Merit 1
FP Fabry-Perot
FPGA Field-Programmable Gate Array
FSR Free Spectral Range
GAS Geometric Anti-Springs
Gc Global control
GIPC Global Inverted Pendulum Control
GN₂ Gaseous Nitrogen
GO General Optics
GPS Global Positioning System
GUI Graphical User Interface
GW Gravitational Waves
HOM High Order Mode
HPBD High Power Beam Dump
HP High Power
HPIO High Power Input Optics
HR High Reflectivity
HSF High Spatial Frequency
HV High Vacuum
HVAC Heating, Ventilation and Air Conditioning
HWII HardWare Inventory and Installation database
HWS Hartmann Wavefront Sensor
IB Injection Bench
IBJM Input Beam Jitter Monitoring
IBMS Input Beam Monitoring System
ID Inertial Damping

IM Input Mirror for the arm cavities
IMC Input Mode Cleaner
IME Infrastructure Modifications for Environmental noise reduction
IMMS Infrastructure Machine Monitoring System
INJ Injection subsystem
INF Infrastructure subsystem
IP Inverted Pendulum
IPC Input Power Control
IRIG-B Inter-Range Instrumentation Group type B
ISC Interferometer Sensing and Control
IT Injection Tower
ITF Interferometer
ITM Input Test Mass
IVC Intermediate Vacuum Chamber
I2C Inter Integrated Circuit
LB Large Baffle
LC Local Control
LED Light-Emitting Diode
LHe Liquid Helium
LLab Laser Laboratory
LMA Laboratoire des Matériaux Avancés
LN₂ Liquid Nitrogen
LSF Low Spatial Frequency
LVDS Low Voltage Differential Signal
LVDT Linear Variable Differential Transformer
MC Mode cleaner
MIMO Multiple Input Multiple Output
MMT Mode Matching Telescope
MSPS Mega-Samples Per Second
MSRC Marginally Stable Recycling Cavities
MTBF Mean Time Before Failure
NDRC Non-Degenerate Recycling Cavity

NE North End
NEB North End Building
NI North Input
NTP Network Time Protocol
OL Optical Lever
OMC Output Mode Cleaner
OMC-MMT Output Mode Cleaner Mode Matching Telescope
OPL Optical Path Length
OSD Optical Simulation and Design subsystem
PAY Payload subsystem
PCal Photon Calibrator
PCIe PCI-Express
PCI-X PCI-Extended
PDH Pound-Drever-Hall
PE cold cathode
PI Pirani
PLC Programmable Logic Controller
PMC Pre-Mode Cleaner
PO Pickoff
POP Pickoff Plate
POSD Position Sensing Device
PPS Pulse Per Second
Pr Photo-diode read-out
PR Power Recycling
PRC Power Recycling Cavity
PR Power Recycling Mirror
PSD Power Spectral Density
PSL Prestabilized Laser
PV Peak-to-Valley
PZT Piezo-electric Transducer
QPD Quadrant Photodiodes
RC Recycling Cavity

RF Radio Frequency
RFC Reference Cavity
RGA Residual Gas Analyzer
RH Ring Heater
RIN Relative Intensity Noise
RM Reference Mass
RMS Root Mean Square
RoC Radius of Curvature
RSE Resonant Sideband Extraction
RTL Round Trip Losses
RTP Rubidium Tytanil Phosphate
RTPC Real-Time PC
SA Superattenuator
SAFE Superattenuator Facility at EGO
SAS Seismic Attenuation System
SAT Superattenuator subsystem
SATCS Superattenuator Control System
SBE Suspended Benches subsystem
SCADA Supervisory Control and Data Acquisition
SDB Suspended Detection Bench
SDB1 Suspended Detection Bench 1
SDB2 Suspended Detection Bench 2
SER Serial data
SF Standard Filter
SFP Small Form factor pluggable
SIB Suspended Injection Bench
SIB1 Suspended Injection Bench 1
SIB2 Suspended Injection Bench 2
SiC Silicon Carbide
SLC Stray Light Control subsystem
SLED Superluminescent Diode
SM Single-Mode

SMA SubMiniature version A connector
SMS Slow Monitoring Station
SNEB Suspended North End Bench
SNR Signal to Noise Ratio
SPL Sound Pressure Level
SPR Software Problem Report
SPRB Suspended Power Recycling pickoff Bench
SR Signal Recycling
SRC Signal Recycling Cavity
SRCL Signal Recycling Cavity Length
SR Signal Recycling Mirror
SSFS Second Stage of Frequency Stabilization
SVN Subversion (Apache Software)
SWEB Suspended West End Bench
TB central area Technical Building
TBC To Be Confirmed
TCS Thermal Compensation System subsystem
TCP/IP Transmission Control Protocol/Internet Protocol
TDBox Timing Distribution Box
TDR Technical Design Report
TF Transfer Function
TFB TOLM Frame Builder
TIS Total Integrated Scattering
TM Test Mass
TOLM Timing and Optical Link Module
TOLM-PCI Timing and Optical Link Module, Peripheral Component Interconnect
TOLM-PMC Timing and Optical Link Module, PCI Mezzanine Card
TSP Titanium Sublimation Pump
UHV Ultra-High Vacuum
UPS Uninterruptible Power Supply
V+ Virgo+
VAC Vacuum subsystem

VCS Virgo Common Software

VDB Virgo Database

VLAN Virgo Local Area Network

VME Versabus Module Eurocard

VSR4 Virgo Science Run 4

WE West End

WEB West End Building

WI West Input