

# Abbreviations & acronyms

ADC	Atmospheric Dispersion Compensator
AO	Adaptive Optics
AGN	Active Galactic Nucleus (Nuclei)
APE	Active Phasing Experiment
CCD	Charge-Coupled Device
CELT	California Extremely Large Telescope
CFD	Computational Fluid Dynamics
CPU	Central Processing Unit
CTE	Coefficient of Thermal Expansion
DIMM	Differential Image Motion Monitor
DM	Deformable Mirror
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EEE	Electrical, Electronic, Electro-mechanical Parts
ELT	Extremely Large Telescope
ESO	European Southern Observatory
FMECA	Failure Mode Effect and Criticality Analysis
FoV	Field of View
FP6	EC Framework Programme 6
FPGA	Field-Programmable Gate Array
GLAO	Ground-Layer Adaptive Optics
GTC	Gran Telescopio Canarias
HCI	High Contrast Imaging
HET	Hobby-Eberly Telescope
IFU	Integral Field Unit
IQ	Image Quality
IR	Infrared
IVV	In Vino Veritas
LGS	Laser Guide Star
LRU	Line Replaceable Unit
M1	Primary Mirror
M2	Secondary Mirror
M3	Tertiary Mirror
M4	Quaternary Mirror
M5	Fifth mirror
M5AM	M5 Adaptive Mirror unit
M6	Sixth Mirror
M6AM	M6 Adaptive Mirror unit
MAD	Multi-Conjugate Adaptive Optics Demonstrator
mas	milli-arc second
MCAO	Multi-Conjugate Adaptive Optics
MEM(s)	Micro-ElectroMechanical device(s)
MLE	Maximum Likely Earthquake
MOAO	Multi Object Adaptive Optics
MOEM(s)	Micro-Opto-ElectroMechanical Device(s)
NGS	Natural Guide Star

NIR	Near Infrared
ORM	Observatorio Roque de los Muchachos (La Palma, Canary Islands).
PID	Proportional-Integral-Derivative (controller)
PIGS	Pseudo-Infinite Guide Stars
ppm	part per million
PSD	Power Spectral Density
PSF	Point Spread Function
R&M	Reliability & Maintainability
RD	Reference Document
RMS	Root Mean Square
RON	Read-Out Noise
RTC	Real-Time Computer
SALT	South African large Telescope
SCAO	Single-Conjugate Adaptive Optics
SH	Shack-Hartmann
SPLASH	Sky-Projected Laser Array Shack-Hartmann
SNe	SuperNovae
SRD	Software Requirement Document
UT	Unit Telescope (VLT)
VLT	Very Large Telescope
WEB	Wind Evaluation Breadboard
WFE	WaveFront Error
WFS	WaveFront Sensor