
Appendix A

Abbreviations of Telescope Names

1hA, One Hectare Telescope
21CMA, 21 CM Array
AAT, Anglo-Australia Telescope
ACE, Advanced Composition Explorer
AGASA, Akeno Giant Air Shower Array
AIGO, Australia Interferometer Gravitational wave Observatory
ALMA, Atacama Large Millimeter Array
AMANDA, Antarctic Muon And Neutrino Detector Array
AMiBA telescope, Array for Microwave Background Anisotropy telescope
AMS, Alpha Magnetic Spectrometer
ANITA, Antarctic Impulsive Transient Antenna
APEX, Atacama Pathfinder Experiment
ARC, Astrophysical Research Consortium
ARISE, Advanced Radio Interferometry between Space and Earth
ASTP, Apollo-Soyuz Test Project
ATA, Allen Telescope Array
ATCA, Australia Telescope Compact Array
ATST, Advance Technology Solar Telescope
AXAF, Advanced X-ray Astronomy Facility (Chandra X-ray Observatory)
BAT, Burst Alert Telescope (in Swift)
BIMA, Berkeley Illinois Millimeter Array
BTA, Bolshoi Teleskop Azimutalnyi (Big Telescope Alt-azimuthal)
BATSE, Burst And Transient Source Experiment
CACTUS, Converted Atmospheric Cerenkov Telescope Using Solar 2
CANGAROO, Collaboration between Australia and Nippon for a Gamma Ray
Observatory
CARMA, Combined Array for Research in Millimeter-wave Astronomy
CAST, CERN Axion Solar Telescope
CAT, Cherenkov Array at Themis
CDMS, Cryogenic Dark Matter Search

CERGA interferometer, Centre d'Etudes et de Recherches Geodynamiques et
 Astronomiques interferometer
 CFHT, Canada-France-Hawaii Telescope
 CGRO, Compton Gamma Ray Observatory
 CHARA array, Center for High Angular Resolution Astronomy array (6×1 m)
 CLUE, Cherenkov Light Ultraviolet Experiment
 COAST, Cambridge Optical Aperture Synthesis Telescope
 COMPTEL, imaging Compton Telescope
 ConX, Constellation X
 CRTNT, Cosmic Ray Tau Neutrino Telescopes
 CXO, Chandra X-ray Observatory
 DALI, Dark Ages Lunar Interferometer
 DAMA, Dark Matter
 DRIFT, Directional Recoil Identification From Tracks-I
 DUMAND, Deep Underwater Muon And Neutrino Detector
 E-ELT, European Extremely Large Telescope
 EGRET, Energetic Gamma Ray Experiment Telescope
 EUVE, Extreme Ultraviolet Explorer
 EUSO, Extreme Universe Space Observatory
 EVLA, Expanded Very Large Array
 FASR, Frequency Agile Solar Radiotelescope
 FAST, 500-hundred-meter-diameter Aperture Spherical Radio Telescope
 FIRST, Far Infrared and Sub-millimeter Telescope (Herschel Space
 Observatory)
 FORTE, Fast On-orbit Recording of Transient Events
 FUSE, Far-Ultraviolet Spectroscopic Explorer
 GAIA, Global Astrometric Interferometer for Astrophysics
 GALEX, Galaxy Evolution Explorer
 GBT, Green Bank Telescope
 GI2T, Grand Interferometre a 2 Telescopes
 GLAST, Gamma-ray Large Area Space Telescope (Fermi Gamma ray Space
 Telescope)
 GLUE, Glodstone Lunar Ultra-high energy neutrino Experiment
 GMRT, Giant Metre-wavelength Radio Telescope
 GMT, Giant Magellan Telescope
 GRACE, Gamma-ray Astrophysics through Coordinated Experiment
 GSMT, Giant Segmented Mirror Telescope
 GTC, Gran Telescope Canarias
 HDMS, Heidelberg Dark Matter Search
 HEAO, High Energy Astronomy Observatories
 HEGRA array, High Energy Gamma Ray Astronomy array
 HESS, High Energy Stereoscopic System
 HET, Hobby-Eberly Telescope
 HETE, High Energy Transient Explorer
 HHT, Heinrich Hertz Telescope

HiRes, High Resolution Fly's Eye
 HST, Hubble Space Telescope
 HUT, Hopkins Ultraviolet Telescope
 IACT, imaging air Cherenkov telescope
 INCA, Investigation on Cosmic Anomalies
 Integral, International Gamma Ray Astrophysics Laboratory
 IOTA, Infrared Optical Telescope Array
 IRAS, InfraRed Astronomical Satellite
 ISI, Infrared Spatial Interferometer (3×1.65 m)
 ISO, Infrared Space Observatory
 IUE International Ultraviolet Explorer
 IXO International X-ray Observatory
 JCMT, James Clerk Maxwell Telescope
 JWST, James Webb Space Telescope (NGST)
 KAMIOKANDE, Kamioka Nucleon Decay Experiment
 LAMOST, Large sky Area Multi-Object Spectroscopic Telescope
 KAO, Kuiper Airborne Observatory
 LARC Lunar Array for Radio Cosmology
 LBA, Long Baseline Array (Australia)
 LBT, Large Binocular Telescope (Columbus Telescope)
 LCGT, Large-scale Cryogenic Gravitational wave Telescope
 LIGO, Laser Interferometer Gravitational wave Observatory
 LISA, Laser Interferometer Space Antenna
 LLT, Large Lunar Telescope
 LMT, Large Millimeter Telescope
 LOFAR, LOw Frequency ARray
 LSST, Large-aperture Synoptic Survey Telescope
 MACE, Major Atmospheric Cherenkov telescope Experiment
 MAGIC, Major Atmospheric Gamma ray Imaging Cherenkov telescope
 MARCO, Monopole Astrophysics and Cosmic Ray Observatory
 MERLIN, Multi-Element Radio-Linked Interferometer Network
 MILAGRO, Multi Institution Los Alamos Gamma Ray Observatory
 MMT, Multiple Mirror Telescope
 MROI, Magdalena Ridge Observatory Interferometer (10×1.4 m)
 MWA, Murchison Widefield Array
 MYSTIQUE, Multi-element-Ultra-Sensitive Telescope for Quanta of Ultra-high Energy
 NESTOR, NEutrinos from Supernova and TeV sources Ocean Range
 NTT, New Technology Telescope
 NPOI, Navy Prototype Optical Interferometer
 OAO, Orbit Astronomy Observatory
 OGO, Orbit Geophysics Observatory
 OHANA, Optical Hawaiian Array for Nano-radian Astronomy
 ORFEUS, Orbiting Retrievable Far and Extreme Ultraviolet Spectrometer
 OSO, Orbit Solar Observatory

OSSE, Oriented Scintillation Spectrometer Experiment
 OVLBI, Orbiting VLBI
 OWL, Over-Whelmingly Large Telescope
 PICASSO, Project In CANada to Search for Supersymmetric Objects
 PTO, Palomar Testbed Interferometer
 RICE, Radio Ice Cherenkov Experiment
 ROSEBUD, Rear Object Search with Bolometers Underground
 SaLSA, Saltdome Shower Array
 SALT, South African Large Telescope
 SAS, Small Astronomy Satellite
 SEST, Swedish-ESO Sub-millimeter Telescope
 SKA, Square Kilometer Array
 SIM, Space Interferometry Mission
 SIRTf, Space IR Telescope Facility (Spitzer Space Telescope)
 SMA, Sub-Millimeter Array
 SMT, segmented mirror telescope
 SOAR telescope, Southern Astrophysical Research telescope
 SOFIA Stratospheric Observatory For Infrared Astronomy
 SOHO, Solar Heliospheric Observatory
 Space FD, Space fluorescent detector
 SPICA, Space Infrared Telescope for Cosmology and Astrophysics
 SPT, South Pole submillimeter Telescope
 SST, Spitzer Space Telescope
 STACEE, Solar Tower Atmospheric Cherenkov Effect Experiment
 SUSI, Sydney University Stellar Interferometer
 SWAS, Submillimeter Wave Astronomy Satellite
 Swift, Swift Gamma Ray Burst Explorer
 TA, Telescope Array
 TIM, Telescopio Infrarrojo Mexicano
 TMT, Thirty Meter Telescope
 TNG, Telescopio Nazionale Galileo
 TPF-C, Terrestrial Planet Finder-coronagraph
 TPF-I, Terrestrial Planet Finder-Interferometer
 UKFMC, UK Dark Matter Collaboration
 UKIRT, United Kingdom InfraRed Telescope
 UIT, Ultraviolet Imaging Telescope
 UVOT, Ultraviolet/Optical Telescope (in Swift)
 VERITAS, Very Energetic Radiation Imaging Telescope Array System
 VLA, Very Large Array
 VLBA, Very Long Baseline Array
 VLT(I), Very Large Telescope (Interferometer)
 VSOP, VLBI Space Observatory Program (HALCA, Astro-G)
 WHT, William Herschel Telescope
 WIYN, Wisconsin, Indiana, Yale, and NOAO telescope
 WMAP, Wilkinson Microwave Anisotropy Probe

WSO, World Space Observatory

XEUS, X-ray Evolving Universe Spectroscopy

XMM, X-ray Multi-mirror Mission (XMM-Newton)

XRS, X-Ray Spectrometer

XRT, X-Ray Telescope (in Swift)

XTE, X-ray Time Explorer

ZEPLIN, ZonEd Proportional scintillation in LIquid Noble gases

Appendix B

Prefixes for Standard Units

Symbol	Value	Name	Symbol	Value	Name
d	10^{-1}	deci	da	10^1	deca
c	10^{-2}	centi	h	10^2	hecto
m	10^{-3}	milli	k	10^3	kilo
μ	10^{-6}	micro	M	10^6	mega
n	10^{-9}	nano	G	10^9	giga
p	10^{-12}	pico	T	10^{12}	tera
f	10^{-15}	femto	P	10^{15}	peta
a	10^{-18}	atto	E	10^{18}	exa
z	10^{-21}	zepto	Z	10^{21}	zetta
y	10^{-24}	yocto	Y	10^{24}	yotta

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