

Appendix B: Science Keywords

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Keywords to be used in APT when submitting a proposal.

The Tables in this Appendix list the Scientific Keywords that are valid for use in the proposal template.

Within a panel, proposals are assigned to individual reviewers based on the reviewers' expertise and based partly on the keywords given in the proposal and partly on analysis of the proposal text. Generally, the more keywords the proposer selects the better the match to reviewers' expertise. Proposals can designate both a Science Category and an Alternate Category. Designating an Alternate Category enables usage of keywords from multiple categories. The Science Policy Division at STScI reserves the right to re-classify proposals.

For additional information on the proposal sorting into each panel, see [HST Proposal Selection Procedures](#). The HST Scientific Categories and Keywords were developed using the [Unified Astronomy Thesaurus](#) beginning in Cycle 28.

Solar System Astronomy:	Exoplanets and Exoplanet Formation:
Asteroids	Astronomical models
Astronomical models	Astronomical simulations
Astronomical simulations	Biomarkers
Atmospheric composition	Brown Dwarfs
Atmospheric variability	Chemical composition
Binary systems / Multiple systems	Circumstellar disks
Biomarkers	Circumstellar dust

Solar System Astronomy:	Exoplanets and Exoplanet Formation:
Centaur	Circumstellar gas
Chemical composition	Debris disks
Comets	Exoplanet atmospheres
Inner planets	Exoplanet atmospheric composition
Irregular satellites	Exoplanet atmospheric variability
Main belt asteroids	Exoplanet detection methods
Minor planets	Exoplanet dynamics
Natural satellites	Exoplanet structure
Near-Earth objects	Exoplanet surfaces
Occultation	Exoplanet systems
Orbits	Extrasolar gaseous giant planets
Outer planets	Extrasolar ice giants
Planetary atmospheres	Extrasolar rocky planets
Planetary rings	Extrasolar sub-Neptunes
Planetary surfaces	Free floating planets
Small solar system bodies	High contrast techniques
Space weather	Natural satellites (Extrasolar)
Surface composition	Planet hosting stars
Surface ices	Protoplanetary disks (Extrasolar)
Surface processes	Radial velocity
Surface variability	Space weather
Trans-Neptunian objects	Stellar accretion disks
Transits	Transits
Trojan asteroids	White dwarf stars
Zodiacal cloud	

Stellar Physics and Stellar Types:	Stellar Populations and the Interstellar Medium:
Astrometry	Astrochemistry
Astronomical models	Astrometry
Astronomical simulations	Astronomical models
Binary stars / Trinary stars	Astronomical simulations
Black holes	Chemical abundances
Brown dwarfs	Cosmological parameters
Circumstellar disks	Cosmology
Circumstellar matter	Dwarf galaxies
Cosmological parameters	Early-type stars
Cosmology	Elliptical galaxies
Early-type stars	Galactic center
Evolved stars	Galaxy bulges
Gamma-ray bursts	Galaxy evolution
Gravitational wave sources	Galaxy halos
H II regions	Galaxy spheroids
High contrast techniques	Globular star clusters
Hubble constant	Gravitational microlensing
Interacting binary stars	H II regions
Intermediate-type stars	Hertzsprung Russell diagram
Interstellar dust	High-mass star formation
Interstellar medium	Hubble constant
Late-type stars	Initial mass function
Low mass stars	Intermediate-type stars
Main sequence stars	Interstellar atomic gas
Massive stars	Interstellar dust

Stellar Physics and Stellar Types:
Neutron stars
Planetary nebulae
Pre-main sequence stars
Pulsars
Radiative transfer
Stellar abundances
Stellar accretion disks
Stellar atmospheres
Stellar distance
Stellar evolution
Stellar jets
Stellar mergers
Stellar phenomena
Stellar structures
Supernovae
Transient sources
Variable stars
White dwarf stars
Young stellar objects

Galaxies:
Astronomical models
Astronomical simulations
Balmer break
Chemical abundances

Stellar Populations and the Interstellar Medium:
Interstellar medium
Irregular galaxies
Late-type stars
Local Group
Low metallicity stars
Low-mass star formation
Magellanic Clouds
Molecular clouds
Molecular gas
Open star clusters
Planetary nebulae
Polycyclic aromatic hydrocarbons
Population I stars
Population II stars
Population III stars
Red giant tip
Resolved stellar populations
Star clusters
Star formation
Star formation histories
Stellar distance
Stellar kinematics
Stellar population synthesis
Young stellar objects

Galaxies:
Cosmic infrared background
Cosmic noon
Cosmological parameters
Cosmology
Dark energy
Dark matter distribution
Disk galaxies
Dwarf galaxies
Elliptical galaxies
Emission line galaxies
Extragalactic legacy and deep fields
Galaxy bulges
Galaxy clusters
Galaxy dark matter halos
Galaxy disks
Galaxy environments
Galaxy groups
Galaxy kinematics
Galaxy mergers
Galaxy spheroids
Galaxy stellar halos
Galaxy structure
Gravitational lensing
High-redshift galaxies
Hubble constant

Supermassive Black Holes and Active Galaxies:
AGN host galaxies
Astronomical models
Astronomical simulations
Blazars
Broad-absorption line quasar
Emission line galaxies
Galaxy jets
Galaxy winds
High contrast techniques
High-luminosity active galactic nuclei
LINER galaxies
Low-luminosity active galactic nuclei
M-sigma relation
Markarian galaxies
Quasars
Quenched galaxies
Radio cores
Reverberation mapping
Seyfert galaxies
Stellar accretion disks
Stellar feedback
Supermassive black holes
X-ray active galactic nuclei

Galaxies:
Interacting galaxies
Interstellar dust
Irregular galaxies
Large-scale structure of the universe
Local Group
Luminous infrared galaxies
Lyman-break galaxies
Magellanic Clouds
Molecular gas
Nearby galaxies
Polycyclic aromatic hydrocarbons
Population III stars
Post-starburst galaxies
Protoclusters
Protogalaxies
Quenched galaxies
Reionization
Scaling relations
Spectral energy distribution
Star clusters
Star formation
Starburst galaxies
Stellar populations
Ultraluminous infrared galaxies

Intergalactic Medium and Circumgalactic Medium:
Astronomical models
Astronomical simulations
Circumgalactic medium
Cooling flows
Damped Lyman-alpha systems
Gunn-Peterson effect
Intergalactic dust clouds
Intergalactic medium
Intracluster medium
Lyman-alpha forest
Metal line absorbers
Reionization
Warm-hot intergalactic medium