



ASTR578 Assignment 1: Topic Selection
 Due Jan 14 2022 via email (astr578besla@gmail.com)
 Subject heading: Assignment 1

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select category
 and up to 4 key words
 

HST Proposal Opportunities and Science Policies / Hubble Space Telescope Call for Proposals for Cycle 29 / Appendix B: Scientific Keywords

Appendix B: Scientific Keywords

Search HST Science Policy
 

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 Phase I proposal template. The science policies group will sort proposals according to the categories and keywords listed below. For additional information on the proposal sorting into each panel, see [HST Proposal Selection Procedures](#). Please note Phase I keywords were revised and expanded slightly beginning with Cycle 28 to align with the [Unified Astronomy Thesaurus](#).

Solar System Astronomy:

Asteroids
 Astronomical models
 Astronomical simulations
 Atmospheric composition
 Atmospheric variability
 Binary systems / Multiple systems
 Biomarkers
 Centaurs
 Chemical composition
 Comets
 Inner planets
 Irregular satellites
 Main belt asteroids
 Minor planets
 Natural satellites
 Near-Earth objects
 Occultation
 Orbits
 Outer planets
 Planetary atmospheres
 Planetary rings
 Planetary surfaces
 Small solar system bodies
 Space weather
 Surface composition
 Surface ices
 Surface processes
 Surface variability
 Trans-Neptunian objects
 Transits
 Trojan asteroids
 Zodiacal cloud

Exoplanets And Exoplanet Formation:

Astronomical models

Galaxies:

Astronomical models
 Astronomical simulations
 Chemical abundances
 Disk galaxies
 Dwarf galaxies
 Elliptical galaxies
 Emission line galaxies
 Galaxy bulges
 Galaxy classification systems
 Galaxy dark matter halos
 Galaxy disks
 Galaxy environments
 Galaxy evolution
 Galaxy formation
 Galaxy mergers
 Galaxy spheroids
 Galaxy stellar halos
 Galaxy structure
 High-redshift galaxies
 Infrared photometry
 Interacting galaxies
 Irregular galaxies
 Local Group
 Luminous infrared galaxies
 Magellanic clouds
 Quenched galaxies
 Scaling relations
 Spectral energy distribution
 Star clusters
 Star formation
 Starburst galaxies
 Stellar populations
 Ultraluminous infrared galaxies

Intergalactic Medium and the Circumgalactic Medium:

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Exoplanets And Exoplanet Formation:
Astronomical simulations
Biomarkers
Chemical composition
Coronagraphic imaging
Exoplanet atmospheres
Exoplanet atmospheric composition
Exoplanet atmospheric variability
Exoplanet detection methods
Exoplanet evolution
Exoplanet formation
Exoplanet structure
Exoplanet surfaces
Exoplanet systems
Exoplanets
Extrasolar gas giants
Extrasolar ice giants
Extrasolar rocky planets
Free floating planets
Natural satellites (Extrasolar)
Planet hosting stars
Protoplanetary disks (Extrasolar)
Space weather
Transits

Stellar Physics and Stellar Types:
Astrometry
Astronomical models
Astronomical simulations
Binary stars / Trinary stars
Brown dwarf stars
Circumstellar matter
Early-type stars
Evolved stars
Gamma-ray bursts
H II regions
Interstellar dust
Intermediate type stars
Interstellar medium
Late-type stars
Low mass stars
Main sequence Stars
Massive stars
Molecular clouds
Neutron stars
Planetary nebulae
Pre-main sequence stars
Pulsars
Radiative transfer
Stellar abundances
Stellar accretion disks
Stellar atmospheres
Stellar evolution
Stellar jets
Stellar phenomena

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

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-luminosity active galactic nuclei
LINER galaxies
Low-luminosity active galactic nuclei
Markarian galaxies
M-sigma relation
Quasars
Quenched galaxies
Radio cores
Reverberation mapping
Seyfert galaxies
Stellar accretion disks
Stellar feedback
Supermassive black holes
X-ray active galactic nuclei

Large Scale Structure of the Universe:
Astronomical models
Astronomical simulations
Chemical abundances
Cooling flows
Cosmic infrared background
Cosmological parameters
Cosmology
Dark energy
Dark matter distribution
Extragalactic Legacy And Deep Fields
Galaxy clusters
Galaxy groups
Gamma-ray bursts
Gravitational lensing
Intracluster medium
Large-scale structure of the universe

Stellar Physics and Stellar Types:
Supernovae
Variable stars
White dwarf stars
Young stellar objects

Stellar Populations (and the ISM):
Astrometry
Astronomical models
Astronomical simulations
Chemical abundances
Dwarf galaxies
Early-type stars
Elliptical galaxies
Galactic center
Galaxy bulges
Galaxy evolution
Galaxy halos
Galaxy spheroids
Globular star clusters
Gravitational microlensing
H II regions
Hertzsprung Russell diagram
Intermediate type stars
Interstellar dust
Interstellar ices
Interstellar medium
Irregular galaxies
Late-type stars
Local Group
Magellanic Clouds
Open star clusters
Planetary nebulae
Population I stars
Population II stars
Population III stars
Star clusters
Star formation
Stellar distance

Large Scale Structure of the Universe:
Protoplanets
Protostars
Reionization
Stellar distance
Supernovae

Next: [Appendix C: Glossary of Acronyms and Abbreviations](#)