Object Types

* Stars
* Galaxies
* Quasars
* Active Galactic Nuclei (AGN)
* Star Clusters (e.g., globular and open clusters)
* Nebulae (e.g., emission, reflection, dark nebulae)
* Supernovae
* Asteroids and Minor Bodies
* White Dwarfs
* RR Lyrae Variables
* Cepheid Variables
* Tidal Disruption Events (TDE)

Categorical Criteria

* Stars: Main Sequence, Giant, White Dwarf, Variable Star
* Galaxies: Elliptical, Spiral, Irregular, Dwarf, Starburst, Seyfert, LINER
* Quasars: Radio-loud, Radio-quiet, High-redshift
* AGN: Type 1 (Broad-line), Type 2 (Narrow-line), LINER
* Clusters: Open Cluster, Globular Cluster, Supercluster
* Nebulae: Emission, Reflection, Dark
* Supernovae: Type Ia, Type II, Type Ib/c
* Asteroids: Main Belt, Near-Earth, Trans-Neptunian
* Variable Stars: RR Lyrae (Fundamental mode, First overtone), Cepheid (Classical, Type II)

Numeric Criteria

Positional Data

* Right Ascension (RA)
* Declination (Dec)

Photometric Data

* u-band Magnitude
* g-band Magnitude
* r-band Magnitude
* i-band Magnitude
* z-band Magnitude

Spectroscopic Data

* Redshift (z)
* H-alpha Line Strength
* H-beta Line Strength
* O III Line Strength
* N II Line Strength
* S II Line Strength
* Equivalent Widths of Spectral Lines
* Spectral Index

Astrometric Data

* Proper Motion (1. PMRA 2. PMD)
* Radial Velocity

Physical Properties of Galaxies

* Stellar Mass
* Star Formation Rate (SFR)
* Surface Brightness

Orbital Elements (for asteroids and minor planets)

* Semi-major Axis
* Eccentricity
* Inclination
* Absolute Magnitude (H)

Variability Metrics (for variable stars)

* Period
* Amplitude
* Light Curve Parameters