Astronomy's 82 Classes

Kingdom of the Planets

Family: Protoplanetary

    Class P 1: Protoplanetary Disk

Family: Planet

    Class P 2: Terrestrial (rocky)

    Class P 3: Gas Giant

    Class P 4: Ice Giant

    Class P 5: Pulsar Planet

Family: Circumplanetary

    Class P 6: Satellite

    Class P 7: Ring

    Class P 8: Radiation Belt

Family: Subplanetary

    Class P 9: Dwarf Planet

    Class P 10: Meteoroid

  Subfamily: Small Bodies of Solar System

    Class P 11: Minor Planet/ Asteroid

    Class P 12: Comet

    Class P 13: Trans-Neptunian Objects

Family: Interplanetary Medium

    Class P 14: Gas

    Class P 15: Dust

  Subfamily: Energetic Particles

    Class P 16: Solar Wind

    Class P 17: Anomalous Cosmic Ray

Kingdom of the Stars

Family: Protostellar

    Class S 1: Protostar

Family: Star

  Subfamily: Pre-Main Sequence

    Class S 2: T Tauri

    Class S 3: Herbig Ae/Be

  Subfamily: Main Sequence

    (H burning - Luminosity Class V)

    Class S 4: Dwarf

    Class S 5: Subdwarf

  Subfamily: Post-Main Sequence

    (He burning and higher elements)

    Class S 6: Subgiant (Luminosity Class IV)

    Class S 7: Giant (Luminosity III)

    Class S 8: Bright Giant Class II)

    Class S 9 Supergiant (Lumin. Class I)

    Class S 10 Hypergiant (Lumin. Class 0)

  Subfamily: Evolutionary Endpoints

    Class S 11 Supernova

    Class S 12 White Dwarf

    Class S 13 Neutron Star/Pulsar

    Class S 14 Black Hole

Family: Circumstellar

    Class S 15: Debris disk

    Class S 16: Shell (dying stars)

    Class S 17: Planetary Nebula

    Class S 18: Nova Remnant

    Class S 19: Core Collapse Supernova

Kingdom of the Galaxies

Family: Protogalactic

    Class G 1: Protogalaxy

Family: Galaxy

  Subfamily: Normal

    Class G 2 Elliptical

    Class G 3 Lenticular

    Class G 4 Spiral

    Class G 5 Irregular

  Subfamily: Active

    Class G 6 Seyfert

    Class G 7 Radio Galaxy

    Class G 8 Quasar

    Class G 9 Blazar

Family: Circumgalactic

    Class G 10 Satellites and Stellar Streams

    Class G 11 Galactic Jet

    Class G 12 Galactic Halo

Family: Subgalactic

    Class G 13 Subgalactic Object

Family: Intergalactic Medium

  Subfamily: Gas

    Class G 14 Warm Hot IGM

    Class G 15 Lyman alpha blobs

  Subfamily: Dust

    Class G 16 Dust

Astronomy's 82 Classes (cont.)

Family: Systems
  Class P 18: Planetary Systems/ Exoplanets
  Class P 19: Asteroid Groups
  Class P 20: Meteoroid streams
Subfamily: Trans-Neptunian Systems
  Class P 21:Kuiper Belt
  Class P 22: Oort Cloud

Class S 20: Stellar Jet
Class S 21: Herbig-Haro Object
[See also Protoplanetary Disk (P 1);
  Planetary System, (P 18)
  Kuiper Belt (P 21)
  Oort Cloud (P 22)]
Family: Substellar
 Class S 22: Brown dwarf
Family: Interstellar Medium
 Subfamily: Gas (99%]
 Class S 23: Cool Atomic Cloud (H I)
 Class S 24: Hot Ionized Cloud (H II)
 Class S 25: Molecular Cloud (H2)
 Class S 26: White Dwarf Supernova
  Remnant
 Subfamily: Dust (1%)
  Class S 27: Dark Nebulae
  Class S 28: Reflection Nebulae
 Subfamily: Energetic Particles
  Class S 29: Stellar Wind
  Class S 30: Galactic Cosmic Rays
Family: Systems
  Class S 31: Binary Star
  Class S 32: Multiple Star
  Class S 33: Association (OB)
  Class S 34: Open Cluster
  Class S 35: Globular Cluster
  Class S 36: Population

Subfamily: Energetic Particles
  Class G 17 Galactic Wind
  Class G 18 Extragalactic
   Cosmic Rays
Family: Systems
  Class G 19 Binary
  Class G 20 Interacting
  Class G 21 Group
  Class G 22 Cluster
  Class G 23 Supercluster
  Class G 24 Filaments & Voids