

Thesaurus of key words used in the annual subject indexes

(valid from August 1998)

The list is common to *Astronomy and Astrophysics*, *The Astrophysical Journal* and *Monthly Notices of the Royal Astronomical Society*. In order to ease the search, the key words are subdivided into broad categories.

No more than *six* codes all together should be listed for a paper as this is the limit fixed by the computer program.

The key words in boldface listed under the code numbers 07.03.2, 07.16.2, 08.09.2, 08.16.5, 08.19.5, 09.09.1, 09.16.2, 10.07.3, 10.15.2, 11.02.2, 11.09.1, 11.17.4 are intended for use with specific astronomical objects; each contains the word “individual”. The corresponding code numbers should never be used alone, but always in combination with the most common names for the astronomical objects in question. For example, if a paper discusses three individual galaxies, these should be coded on the title page of the manuscript in the following manner:

11.09.1 Arp 220; 11.09.1 M 51; 11.09.1 NGC 4472

Note that each object (in the example the three galaxies) counts as one code within the allowed limit of six codes.

The parts of the key words in *italics* are for reference only and should be omitted when the key words are entered on the manuscript.

General

- 01.02.1 Book reviews
- 01.05.1 Editorials notices
- 01.05.2 Errata, addenda
- 01.05.3 Extraterrestrial intelligence
- 01.08.1 History and philosophy of astronomy
- 01.13.1 Miscellaneous
- 01.15.1 Obituaries, biographies
- 01.16.1 Publications, bibliography
- 01.19.1 Sociology of Astronomy
- 01.19.2 Standards

Physical data and processes

- 02.01.1 Acceleration of particles
- 02.01.2 Accretion, accretion disks
- 02.01.3 Atomic data
- 02.01.4 Atomic processes
- 02.02.1 Black hole physics
- 02.03.1 Chaos
- 02.03.2 Conduction
- 02.03.3 Convection
- 02.03.4 Cosmic strings
- 02.04.1 Dense matter
- 02.04.2 Diffusion
- 02.05.1 Elementary particles

- 02.05.2 Equation of state
- 02.07.1 Gravitation
- 02.07.2 Gravitational waves
- 02.08.1 Hydrodynamics
- 02.09.1 Instabilities
- 02.12.1 Line: formation
- 02.12.2 Line: identification
- 02.12.3 Line: profiles
- 02.13.1 Magnetic fields
- 02.13.2 *Magnetohydrodynamics* (MHD)
- 02.13.3 Masers
- 02.13.4 Molecular data
- 02.13.5 Molecular processes
- 02.14.1 Nuclear reactions, nucleosynthesis, abundances
- 02.16.1 Plasmas
- 02.16.2 Polarization
- 02.18.5 Radiation mechanisms: non-thermal
- 02.18.6 Radiation mechanisms: thermal
- 02.18.7 Radiative transfer
- 02.18.8 Relativity
- 02.19.2 Scattering
- 02.19.1 Shock waves
- 02.20.1 Turbulence
- 02.23.1 Waves

Astronomical instrumentation, methods and techniques

- 03.01.2 Atmospheric effects
- 03.02.1 Balloons
- 03.09.7 Instrumentation: adaptive optics
- 03.09.1 Instrumentation: detectors
- 03.09.2 Instrumentation: interferometers
- 03.09.3 Instrumentation: miscellaneous
- 03.09.4 Instrumentation: photometers
- 03.09.5 Instrumentation: polarimeters
- 03.09.6 Instrumentation: spectrographs
- 03.13.1 Methods: analytical
- 03.13.2 Methods: data analysis
- 03.13.7 Methods: laboratory
- 03.13.3 Methods: miscellaneous
- 03.13.8 Methods: N-body simulations
- 03.13.4 Methods: numerical
- 03.13.5 Methods: observational
- 03.13.6 Methods: statistical
- 03.19.1 Site testing
- 03.19.2 Space vehicles
- 03.19.3 Space vehicles: instruments
- 03.20.1 Techniques: image processing
- 03.20.2 Techniques: interferometric
- 03.20.3 Techniques: miscellaneous

- 03.20.4 Techniques: photometric
- 03.20.5 Techniques: polarimetric
- 03.20.6 Techniques: radar astronomy
- 03.20.7 Techniques: radial velocities
- 03.20.8 Techniques: spectroscopic
- 03.20.9 Telescopes

Astronomical data bases

- 04.01.1 Astronomical data bases: miscellaneous
- 04.01.2 Atlases
- 04.03.1 Catalogs
- 04.19.1 Surveys

Astrometry and celestial mechanics

- 05.01.1 Astrometry
- 05.03.1 Celestial mechanics, stellar dynamics
- 05.05.1 Eclipses
- 05.05.2 Ephemerides
- 05.15.1 Occultations
- 05.18.1 Reference systems
- 05.20.1 Time

The Sun

- 06.01.1 Sun: abundances
- 06.01.2 Sun: activity
- 06.01.3 Sun: atmosphere
- 06.03.1 Sun: chromosphere
- 06.03.2 Sun: corona
- 06.05.1 Sun: evolution
- 06.06.1 Sun: faculae, plages
- 06.06.2 Sun: filaments
- 06.06.3 Sun: flares
- 06.06.4 Sun: fundamental parameters
- 06.07.1 Sun: general
- 06.07.2 Sun: granulation
- 06.09.2 Sun: infrared
- 06.09.1 Sun: interior
- 06.13.1 Sun: magnetic fields
- 06.15.1 Sun: oscillations
- 06.16.1 Sun: particle emission
- 06.16.2 Sun: photosphere
- 06.16.3 Sun: prominences
- 06.18.1 Sun: radio radiation
- 06.18.2 Sun: rotation
- 06.19.1 (*Sun*.) solar-terrestrial relations
- 06.19.2 (*Sun*.) solar wind
- 06.19.3 (*Sun*.) sunspots
- 06.20.1 Sun: transition region
- 06.21.1 Sun: UV radiation
- 06.24.1 Sun: X-rays, gamma rays

Solar system

- 07.03.1 Comets: general
- 07.03.2 **Comets: individual:** . . .
- 07.05.1 Earth
- 07.09.1 Intepanetary medium
- 07.11.1 Kuiper belt, Oort cloud
- 07.13.1 Meteors, meteoroids
- 07.13.2 Minor planets, asteroids

- 07.13.3 Moon
- 07.16.1 Planets and satellites: general
- 07.16.2 **Planets and satellites:**
individual: . . . (*alphabetic order*)
- 07.19.1 Solar system: formation
- 07.19.2 Solar system: general

Stars

- 08.01.1 Stars: abundances
- 08.01.2 Stars: activity
- 08.16.4 Stars: AGB and post-AGB
- 08.01.3 Stars: atmospheres
- 08.02.1 (*Stars*.) binaries (*including multiple*): close
- 08.02.2 (*Stars*.) binaries: eclipsing
- 08.02.3 (*Stars*.) binaries: general
- 08.02.4 (*Stars*.) binaries: spectroscopic
- 08.02.5 (*Stars*.) binaries: symbiotic
- 08.02.6 (*Stars*.) binaries: visual
- 08.02.7 (*Stars*.) blue stragglers
- 08.03.1 Stars: carbon
- 08.03.2 Stars: chemically peculiar
- 08.03.3 Stars: chromospheres
- 08.03.4 (*Stars*.) circumstellar matter
- 08.03.5 Stars: coronae
- 08.04.1 Stars: distances
- 08.05.1 Stars: early-type
- 08.05.2 Stars: emission-line, Be
- 08.05.3 Stars: evolution
- 08.06.1 Stars: flare
- 08.06.2 Stars: formation
- 08.06.3 Stars: fundamental parameters
(*classification, colors, luminosities, masses, radii, temperatures, etc.*)
- 08.07.1 Stars: general
- 08.08.1 (*Stars*.) Hertzsprung–Russel (HR) and C-M diagrams
- 08.08.2 Stars: horizontal-branch
- 08.09.1 Stars: imaging
- 08.09.2 **Stars: individual:** . . .
- 08.09.3 Stars: interiors
- 08.11.1 Stars: kinematics
- 08.12.1 Stars: late-type
- 08.12.2 Stars: low-mass, brown dwarfs
- 08.12.3 Stars: luminosity function, mass function
- 08.13.1 Stars: magnetic fields
- 08.13.2 Stars: mass-loss
- 08.14.1 Stars: neutron
- 08.14.2 (*Stars*.) novae, cataclysmic variables
- 08.15.1 Stars: oscillations (*including pulsations*)
- 08.16.1 Stars: peculiar (*except chemically peculiar*)
- 08.16.2 (*Stars*.) planetary systems
- 08.16.3 Stars: Population II
- 08.16.5 Stars: pre-main sequence
- 08.16.6 (*Stars*.) pulsars: general
- 08.16.7 (*Stars*.) **pulsars: individual:** . . .
- 08.18.1 Stars: rotation
- 08.19.1 Stars: statistics
- 08.19.2 (*Stars*.) subdwarfs
- 08.19.3 (*Stars*.) supergiants
- 08.19.4 (*Stars*.) supernovae: general
- 08.19.5 (*Stars*.) **supernovae: individual:** . . .

- 08.19.6 (*Stars:*) starspots
- 08.22.1 (*Stars: variables:*) Cepheids
- 08.22.2 (*Stars: variables:*) δ Sct
- 08.22.3 Stars: variables: general
- 08.22.4 Stars: variables: RR Lyr
- 08.23.1 (*Stars:*) white dwarfs
- 08.23.2 Stars: Wolf-Rayet
- 08.23.3 Stars: winds, outflows

Interstellar medium (ISM), nebulae

- 09.01.1 ISM: abundances
- 09.01.2 ISM: atoms
- 09.02.1 ISM: bubbles
- 09.03.1 ISM: clouds
- 09.03.2 (*ISM:*) cosmic rays
- 09.04.1 (*ISM:*) dust, extinction
- 09.05.1 (*ISM:*) evolution
- 09.07.1 ISM: general
- 09.08.1 (*ISM:*) H II regions
- 09.08.2 (*ISM:*) Herbig-Haro objects
- 09.09.1 **ISM: individual objects: . . .**
(*except planetary nebulae*)
- 09.10.1 ISM: jets and outflows
- 09.11.1 ISM: kinematics and dynamics
- 09.12.1 ISM: lines and bands
- 09.13.1 ISM: magnetic fields
- 09.13.2 ISM: molecules
- 09.16.1 (*ISM:*) planetary nebulae: general
- 09.16.2 (*ISM:*) **planetary nebulae: individual: . . .**
- 09.18.1 (*ISM:*) reflection nebulae
- 09.19.1 ISM: structure
- 09.19.2 ISM: supernova remnants

The Galaxy

- 10.01.1 Galaxy: abundances
- 10.03.1 Galaxy: center
- 10.05.1 Galaxy: evolution
- 10.06.1 Galaxy: formation
- 10.06.2 Galaxy: fundamental parameters
- 10.07.1 Galaxy: general
- 10.07.2 (*Galaxy:*) globular clusters: general
- 10.07.3 (*Galaxy:*) **globular clusters: individual: . . .**
- 10.08.1 Galaxy: halo
- 10.11.1 Galaxy: kinematics and dynamics
- 10.15.1 (*Galaxy:*) open clusters and associations: general
- 10.15.2 (*Galaxy:*) **open clusters and associations: individual: . . .**
- 10.19.1 (*Galaxy:*) solar neighbourhood
- 10.19.2 Galaxy: stellar content
- 10.19.3 Galaxy: structure

Galaxies

- 11.01.1 Galaxies: abundances
- 11.01.2 Galaxies: active
- 11.02.1 (*Galaxies:*) BL Lacertae objects: general
- 11.02.2 (*Galaxies:*) **BL Lacertae objects: individual: . . .**
- 11.03.1 Galaxies: clusters: general
- 11.03.4 **Galaxies: clusters: individual: . . .**
- 11.03.2 Galaxies: compact
- 11.03.3 (*Galaxies:*) cooling flows

- 11.04.1 Galaxies: distances and redshifts
- 11.04.2 Galaxies: dwarf
- 11.05.1 Galaxies: elliptical and lenticular, cD
- 11.05.2 Galaxies: evolution
- 11.06.1 Galaxies: formation
- 11.06.2 Galaxies: fundamental parameters
(*classification, colors, luminosities, masses, radii, etc.*)
- 11.07.1 Galaxies: general
- 11.08.1 Galaxies: halos
- 11.09.1 **Galaxies: individual: . . .**
- 11.09.2 Galaxies: interactions
- 11.09.3 (*Galaxies:*) intergalactic medium
- 11.09.4 Galaxies: ISM
- 11.09.5 Galaxies: irregular
- 11.10.1 Galaxies: jets
- 11.11.1 Galaxies: kinematics and dynamics
- 11.12.1 (*Galaxies:*) Local Group
- 11.12.2 Galaxies: luminosity function, mass function
- 11.13.1 (*Galaxies:*) Magellanic Clouds
- 11.13.2 Galaxies: magnetic fields
- 11.14.1 Galaxies: nuclei
- 11.16.1 Galaxies: photometry
- 11.16.2 Galaxies: peculiar
- 11.17.1 (*Galaxies:*) quasars: absorption lines
- 11.17.2 (*Galaxies:*) quasars: emission lines
- 11.17.3 (*Galaxies:*) quasars: general
- 11.17.4 (*Galaxies:*) **quasars: individual: . . .**
- 11.19.1 Galaxies: Seyfert
- 11.19.2 Galaxies: spiral
- 11.19.3 Galaxies: starburst
- 11.19.4 Galaxies: star clusters
- 11.19.7 Galaxies: statistics
- 11.19.5 Galaxies: stellar content
- 11.19.6 Galaxies: structure

Cosmology

- 12.03.1 (*Cosmology:*) cosmic microwave background
- 12.03.2 Cosmology: miscellaneous
- 12.03.3 Cosmology: observations
- 12.03.4 Cosmology: theory
- 12.04.1 (*Cosmology:*) dark matter
- 12.04.2 (*Cosmology:*) diffuse radiation
- 12.04.3 (*Cosmology:*) distance scale
- 12.05.1 (*Cosmology:*) early Universe
- 12.07.1 (*Cosmology:*) gravitational lensing
- 12.12.1 (*Cosmology:*) large-scale structure of Universe

Sources as a function of wavelength

- 13.07.1 Gamma rays: bursts
- 13.07.2 Gamma rays: observations
- 13.07.3 Gamma rays: theory
- 13.09.1 Infrared: galaxies
- 13.09.2 Infrared: general
- 13.09.3 Infrared: ISM: continuum
- 13.09.4 Infrared: ISM: lines and bands
- 13.09.5 Infrared: solar system
- 13.09.6 Infrared: stars
- 13.18.1 Radio continuum: galaxies
- 13.18.2 Radio continuum: general

- 13.18.3 Radio continuum: ISM
- 13.18.4 Radio continuum: solar system
- 13.18.5 Radio continuum: stars
- 13.19.1 Radio lines: galaxies
- 13.19.2 Radio lines: general
- 13.19.3 Radio lines: ISM
- 13.19.4 Radio lines: solar system
- 13.19.5 Radio lines: stars
- 13.20.1 Submillimeter
- 13.21.1 Ultraviolet: galaxies
- 13.21.2 Ultraviolet: general
- 13.21.3 Ultraviolet: ISM
- 13.21.4 Ultraviolet: solar system
- 13.21.5 Ultraviolet: stars
- 13.25.1 X-rays: bursts
- 13.25.2 X-rays: galaxies
- 13.25.3 X-rays: general
- 13.25.4 X-rays: ISM
- 13.25.5 X-rays: stars