

# List of key words used in the annual subject indexes

(valid from January 2001)

This list is common to *Monthly Notices of the Royal Astronomical Society*, *Astronomy and Astrophysics*, and *The Astrophysical Journal*. In order to ease the search, the key words are subdivided into broad categories. No more than *six* subcategories altogether should be listed for a paper.

The subcategories in boldface containing the word ‘individual’ are intended for use with specific astronomical objects; these should never be used alone, but always in combination with the most common names for the astronomical objects in question. Note that each object counts as one subcategory within the allowed limit of six.

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

editorials, notices  
errata, addenda  
extraterrestrial intelligence  
history and philosophy of astronomy  
miscellaneous  
obituaries, biographies

## Physical data and processes

acceleration of particles  
accretion, accretion discs  
astrobiology  
astrochemistry  
atomic data  
atomic processes  
black hole physics  
conduction  
convection  
dense matter  
diffusion  
elementary particles  
equation of state  
gravitation  
gravitational lensing  
gravitational waves  
hydrodynamics  
instabilities  
line: formation  
line: identification  
line: profiles  
magnetic fields  
(*magnetohydrodynamics*) MHD  
masers  
molecular data  
molecular processes  
neutrinos

nuclear reactions, nucleosynthesis, abundances  
plasmas  
polarization  
radiation mechanisms: general  
radiation mechanisms: non-thermal  
radiation mechanisms: thermal  
radiative transfer  
relativity  
scattering  
shock waves  
stellar dynamics  
turbulence  
waves

## Astronomical instrumentation, methods and techniques

atmospheric effects  
balloons  
instrumentation: adaptive optics  
instrumentation: detectors  
instrumentation: high angular resolution  
instrumentation: interferometers  
instrumentation: miscellaneous  
instrumentation: photometers  
instrumentation: polarimeters  
instrumentation: spectrographs  
light pollution  
methods: analytical  
methods: data analysis  
methods: laboratory  
methods: miscellaneous  
methods: *N*-body simulations  
methods: numerical  
methods: observational  
methods: statistical  
site testing  
space vehicles: instruments  
techniques: high angular resolution  
techniques: image processing  
techniques: interferometric  
techniques: miscellaneous  
techniques: photometric  
techniques: polarimetric  
techniques: radar astronomy  
techniques: radial velocities  
techniques: spectroscopic  
telescopes

## Astronomical data bases

astronomical data bases: miscellaneous  
atlases  
catalogues  
surveys

## *Index key words*

### **Astrometry and celestial mechanics**

astrometry  
celestial mechanics  
eclipses  
ephemerides  
occultations  
reference systems  
time

### **The Sun**

Sun: abundances  
Sun: activity  
Sun: atmosphere  
Sun: atmospheric motions  
Sun: chromosphere  
Sun: corona  
Sun: coronal mass ejections (CMEs)  
Sun: evolution  
Sun: faculae, plages  
Sun: filaments  
Sun: flares  
Sun: fundamental parameters  
Sun: general  
Sun: granulation  
Sun: helioseismology  
Sun: infrared  
Sun: interior  
Sun: magnetic fields  
Sun: oscillations  
Sun: particle emission  
Sun: photosphere  
Sun: prominences  
Sun: radio radiation  
Sun: rotation  
(*Sun:*) solar–terrestrial relations  
(*Sun:*) solar wind  
(*Sun:*) sunspots  
Sun: transition region  
Sun: UV radiation  
Sun: X-rays, gamma-rays

### **Solar system**

comets: general  
**comets: individual:...**  
Earth  
interplanetary medium  
Kuiper Belt  
meteors, meteoroids  
minor planets, asteroids  
Moon  
Oort Cloud  
planets: rings  
planets and satellites: formation  
planets and satellites: general  
**planets and satellites: individual:...**  
Solar system: formation  
Solar system: general

### **Stars**

stars: abundances  
stars: activity  
stars: AGB and post-AGB  
stars: atmospheres  
(*stars:*) binaries (*including multiple*): close  
(*stars:*) binaries: eclipsing  
(*stars:*) binaries: general  
(*stars:*) binaries: spectroscopic  
(*stars:*) binaries: symbiotic  
(*stars:*) binaries: visual  
(*stars:*) blue stragglers  
stars: carbon  
stars: chemically peculiar  
stars: chromospheres  
(*stars:*) circumstellar matter  
stars: coronae  
stars: distances  
stars: dwarf novae  
stars: early-type  
stars: emission-line, Be  
stars: evolution  
stars: flare  
stars: formation  
stars: fundamental parameters (*classification, colours, luminosities, masses, radii, temperatures, etc.*)  
stars: general  
(*stars:*) Hertzsprung–Russell (HR) diagram  
stars: horizontal branch  
stars: imaging  
**stars: individual:...**  
stars: interiors  
stars: kinematics  
stars: late-type  
stars: low-mass, brown dwarfs  
stars: luminosity function, mass function  
stars: magnetic fields  
stars: mass-loss  
stars: neutron  
(*stars:*) novae, cataclysmic variables  
stars: oscillations (*including pulsations*)  
(*stars:*) planetary systems  
(*stars:*) planetary systems: formation  
(*stars:*) planetary systems: protoplanetary discs  
stars: Population II  
stars: pre-main-sequence  
(*stars:*) pulsars: general  
(*stars:*) **pulsars: individual:...**  
stars: rotation  
stars: spots  
stars: statistics  
(*stars:*) subdwarfs  
(*stars:*) supergiants  
(*stars:*) supernovae: general  
(*stars:*) **supernovae: individual:...**  
(*stars: variables:*) Cepheids  
(*stars: variables:*)  $\delta$  Scuti  
stars: variables: other  
(*stars:*) white dwarfs  
stars: winds, outflows  
stars: Wolf–Rayet

## Interstellar medium (ISM), nebulae

ISM: abundances  
 ISM: atoms  
 ISM: bubbles  
 ISM: clouds  
 (ISM:) cosmic rays  
 (ISM:) dust, extinction  
 ISM: evolution  
 ISM: general  
 ISM: globules  
 (ISM:) H II regions  
 ISM: Herbig–Haro objects  
**ISM: individual:...**  
 (except planetary nebulae)  
 ISM: jets and outflows  
 ISM: kinematics and dynamics  
 ISM: lines and bands  
 ISM: magnetic fields  
 ISM: molecules  
 (ISM:) planetary nebulae: general  
 (ISM:) **planetary nebulae: individual:...**  
 (ISM:) reflection nebulae  
 ISM: structure  
 (ISM:) supernova remnants

## The Galaxy

Galaxy: abundances  
 Galaxy: bulge  
 Galaxy: centre  
 Galaxy: disc  
 Galaxy: evolution  
 Galaxy: formation  
 Galaxy: fundamental parameters  
 Galaxy: general  
 (Galaxy:) globular clusters: general  
 (Galaxy:) **globular clusters: individual:...**  
 Galaxy: halo  
 Galaxy: kinematics and dynamics  
 Galaxy: nucleus  
 (Galaxy:) open clusters and associations: general  
 (Galaxy:) **open clusters and associations: individual:...**  
 (Galaxy:) solar neighbourhood  
 Galaxy: stellar content  
 Galaxy: structure

## Galaxies

galaxies: abundances  
 galaxies: active  
 (galaxies:) BL Lacertae objects: general  
 (galaxies:) **BL Lacertae objects: individual:...**  
 galaxies: bulges  
 galaxies: clusters: general  
**galaxies: clusters: individual:...**  
 (galaxies:) cooling flows  
 galaxies: distances and redshifts  
 galaxies: dwarf  
 galaxies: elliptical and lenticular, cD  
 galaxies: evolution  
 galaxies: formation

galaxies: fundamental parameters  
 (classification, colours, luminosities, masses, radii, etc.)  
 galaxies: general  
 galaxies: haloes  
 galaxies: high-redshift  
**galaxies: individual:...**  
 galaxies: interactions  
 (galaxies:) intergalactic medium  
 galaxies: ISM  
 galaxies: irregular  
 galaxies: jets  
 galaxies: kinematics and dynamics  
 (galaxies:) Local Group  
 galaxies: luminosity function, mass function  
 (galaxies:) Magellanic Clouds  
 galaxies: magnetic fields  
 galaxies: nuclei  
 galaxies: peculiar  
 galaxies: photometry  
 (galaxies:) quasars: absorption lines  
 (galaxies:) quasars: emission lines  
 (galaxies:) quasars: general  
 (galaxies:) **quasars: individual:...**  
 galaxies: Seyfert  
 galaxies: spiral  
 galaxies: starburst  
 galaxies: star clusters  
 galaxies: statistics  
 galaxies: stellar content  
 galaxies: structure

## Cosmology

(cosmology:) cosmic microwave background  
 (cosmology:) cosmological parameters  
 cosmology: miscellaneous  
 cosmology: observations  
 cosmology: theory  
 (cosmology:) dark matter  
 (cosmology:) diffuse radiation  
 (cosmology:) distance scale  
 (cosmology:) early Universe  
 (cosmology:) large-scale structure of Universe

## Sources as a function of wavelength

gamma-rays: bursts  
 gamma-rays: observations  
 gamma-rays: theory  
 infrared: galaxies  
 infrared: general  
 infrared: ISM  
 infrared: Solar system  
 infrared: stars  
 radio continuum: galaxies  
 radio continuum: general  
 radio continuum: ISM  
 radio continuum: Solar system  
 radio continuum: stars  
 radio lines: galaxies  
 radio lines: general

## *Index key words*

radio lines: ISM  
radio lines: Solar system  
radio lines: stars  
submillimetre  
ultraviolet: galaxies  
ultraviolet: general  
ultraviolet: ISM  
ultraviolet: Solar system  
ultraviolet: stars

X-rays: binaries  
X-rays: bursts  
X-rays: diffuse background  
X-rays: galaxies  
X-rays: galaxies: clusters  
X-rays: general  
**X-rays: individual:...**  
X-rays: ISM  
X-rays: stars