List of astronomical key words (Updated on 2017 March)

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 keywords are entered on the manuscript.

General

editorials, notices errata, addenda

extraterrestrial intelligence

history and philosophy of astronomy

miscellaneous

obituaries, biographies publications, bibliography sociology of astronomy

standards

Physical data and processes

acceleration of particles accretion, accretion discs

asteroseismology astrobiology

astrochemistry astroparticle physics

atomic data

atomic processes black hole physics

chaos conduction convection dense matter diffusion dvnamo

elementary particles equation of state

gravitation

gravitational lensing: micro gravitational lensing: strong gravitational lensing: weak

gravitational waves hydrodynamics instabilities line: formation line: identification line: profiles magnetic fields magnetic reconnection

(magnetohydrodynamics) MHD

masers molecular data molecular processes

nuclear reactions, nucleosynthesis, abundances

opacity plasmas polarization radiation: dynamics

radiation mechanisms:general radiation mechanisms: non-thermal radiation mechanisms: thermal

radiative transfer relativistic processes

scattering shock waves

solid state: refractory solid state: volatile

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: atomic methods: laboratory: molecular methods: laboratory: solid state

methods: miscellaneous methods: numerical methods: observational methods: statistical

site testing space vehicles

space vehicles: instruments techniques: high angular resolution techniques: image processing techniques: imaging spectroscopy techniques: interferometric techniques: miscellaneous techniques: photometric techniques: polarimetric techniques: radar astronomy

techniques: radial velocities techniques: spectroscopic

telescopes

Astronomical data bases

astronomical data bases: miscellaneous

catalogues surveys

virtual observatory tools

Astrometry and celestial mechanics

astrometry

celestial mechanics

eclipses ephemerides occultations parallaxes proper motions

reference systems

The Sun

Sun: abundances Sun: activity Sun: atmosphere Sun: chromosphere

Sun: corona

Sun: coronal mass ejections (CMEs)

Sun: evolution Sun: faculae, plages

Sun: filaments, prominences

Sun: flares

Sun: fundamental parameters

Sun: general Sun: granulation Sun: helioseismology Sun: heliosphere Sun: infrared Sun: interior

Sun: magnetic fields Sun: oscillations Sun: particle emission Sun: photosphere 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

Planetary systems

comets: general

comets: individual: . . .

interplanetary medium Kuiper belt: general

Kuiper belt objects: individual: . . .

meteorites, meteors, meteoroids minor planets, asteroids: general

minor planets, asteroids: individual: ...

Moon Oort Cloud

planets and satellites: atmospheres planets and satellites: aurorae planets and satellites: composition planets and satellites: detection

planets and satellites: dynamical evolution and stability

planets and satellites: formation

planets and satellites: fundamental parameters

planets and satellites: gaseous planets

planets and satellites: general

planets and satellites: individual: . . .

planets and satellites: interiors planets and satellites: magnetic fields planets and satellites: oceans

planets and satellites: physical evolution

planets and satellites: rings planets and satellites: surfaces planets and satellites: tectonics

planets and satellites: terrestrial planets

planet-disc interactions planet-star interactions protoplanetary discs zodiacal dust

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: black holes (stars:) blue stragglers (stars:) brown dwarfs

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

(stars:) gamma-ray burst: general (stars:) gamma-ray burst: individual: . . .

stars: general

(stars:) Hertzsprung-Russell and colour-magnitude

diagrams

stars: horizontal branch stars: imaging stars: individual: ... stars: interiors

stars: jets stars: kinematics and dynamics The Galaxy stars: late-type Galaxy: abundances stars: low-mass Galaxy: bulge stars: luminosity function, mass function Galaxy: centre Galaxy: disc stars: magnetars Galaxy: evolution stars: magnetic field Galaxy: formation stars: massive stars: mass-loss Galaxy: fundamental parameters Galaxy: general stars: neutron (Galaxy:) globular clusters: general (stars:) novae, cataclysmic variables stars: oscillations (including pulsations) (Galaxy:) globular clusters: individual: . . . stars: peculiar (except chemically peculiar) Galaxy: halo Galaxy: kinematics and dynamics (stars:) planetary systems stars: Population II (Galaxy:) local interstellar matter stars: Population III Galaxy: nucleus stars: pre-main-sequence (Galaxy:) open clusters and associations: general stars: protostars (Galaxy:) open clusters and associations: individual: ... (stars:) pulsars: general (Galaxy:) solar neighbourhood (stars:) pulsars: individual: . . . Galaxy: stellar content stars: rotation Galaxy: structure stars: solar-type (stars:) starspots Galaxies stars: statistics galaxies: abundances (stars:) subdwarfs galaxies: active (stars:) supergiants (galaxies:) BL Lacertae objects: general (galaxies:) BL Lacertae objects: individual: . . . (stars:) supernovae: general (stars:) supernovae: individual: . . . galaxies: bulges stars: variables: Cepheids galaxies: clusters: general stars: variables: Scuti stars: variables: general galaxies: clusters: individual: . . . stars: variables: RR Lyrae galaxies: clusters: intracluster medium galaxies: distances and redshifts stars: variables: S Doradus stars: variables: T Tauri, Herbig Ae/Be galaxies: dwarf (stars:) white dwarfs galaxies: elliptical and lenticular, cD stars: winds, outflows galaxies: evolution stars: Wolf-Rayet galaxies: formation galaxies: fundamental parameters Interstellar medium (ISM), nebulae galaxies: general galaxies: groups: general ISM: abundances ISM: atoms ISM: bubbles galaxies: groups: individual: . . . ISM: clouds galaxies: haloes (ISM:) cosmic rays galaxies: high-redshift (ISM:) dust, extinction ISM: evolution galaxies: individual: . . . ISM: general galaxies: interactions (ISM:) HII regions (galaxies:) intergalactic medium (ISM:) Herbig-Haro objects galaxies: irregular galaxies: ISM ISM: individual objects: . . . galaxies: jets (except planetary nebulae) galaxies: kinematics and dynamics ISM: jets and outflows (galaxies:) Local Group ISM: kinematics and dynamics galaxies: luminosity function, mass function ISM: lines and bands (galaxies:) Magellanic Clouds ISM: magnetic fields galaxies: magnetic fields ISM: molecules galaxies: nuclei (ISM:) photodissociation region (PDR) galaxies: peculiar (ISM:) planetary nebulae: general galaxies: photometry (ISM:) planetary nebulae: individual: ... (galaxies:) quasars: absorption lines (galaxies:) quasars: emission lines ISM: structure ISM: supernova remnants (galaxies:) quasars: general

(galaxies:) quasars: individual: . . .

(galaxies:) quasars: supermassive black holes

galaxies: Seyfert galaxies: spiral galaxies: starburst

galaxies: star clusters: general

galaxies: star clusters: individual: . . .

galaxies: star formation galaxies: statistics galaxies: stellar content galaxies: structure

Cosmology

(cosmology:) cosmic background radiation (cosmology:) cosmological parameters

(cosmology:) dark ages, reionization, first stars

(cosmology:) dark energy (cosmology:) dark matter (cosmology:) diffuse radiation (cosmology:) distance scale (cosmology:) early Universe (cosmology:) inflation

(cosmology:) large-scale structure of Universe

cosmology: miscellaneous cosmology: observations

(cosmology:) primordial nucleosynthesis

cosmology: theory

Resolved and unresolved sources as a function of wavelength

gamma-rays: diffuse background

gamma-rays: galaxies

gamma-rays: galaxies: clusters

gamma-rays: general gamma-rays: ISM gamma-rays: stars

infrared: diffuse background

infrared: galaxies infrared: general infrared: ISM

infrared: planetary systems

infrared: stars

radio continuum: galaxies radio continuum: general radio continuum: ISM

radio continuum: planetary systems

radio continuum: stars radio continuum: transients radio lines: galaxies

radio lines: ganaxies radio lines: general radio lines: ISM

radio lines: planetary systems

radio lines: stars

submillimetre: diffuse background

submillimetre: galaxies submillimetre: general submillimetre: ISM

submillimetre: planetary systems

submillimetre: stars ultraviolet: galaxies ultraviolet: general ultraviolet: ISM

ultraviolet: planetary systems

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