

## Frequently Used Keywords

\*The frequently used keywords for each session are listed below.

It is not a problem that you use the other keywords.

### M: Sun

- Sun: flares
- Sun: activity
- Sun: magnetic fields
- Sun: chromosphere
- Sun: filaments, prominences
- Sun: radio radiation
- Sun: coronal mass ejections (CMEs)
- Sun: UV radiation
- sunspots

### N: Stars and Stellar Evolution

- supernovae: general
- supernovae: individual (... , ...)
- stars: evolution
- stars: mass-loss
- stars: AGB and post-AGB
- stars: winds, outflows
- stars: massive
- stars: activity
- binaries: close
- binaries: eclipsing
- ISM: supernova remnants
- circumstellar matter
- dust, extinction
- nuclear reactions, nucleosynthesis, abundances

### P1: Formation of Stars and Planets (Star Formation)

- stars: formation
- stars: protostars
- stars: low-mass
- stars: massive
- stars: jets
- stars: variables: T Tauri, Herbig Ae/Be
- ISM: cloud
- ISM: molecules
- ISM: individual objects (... , ...)
- ISM: magnetic fields
- accretion, accretion disks
- astrochemistry

### P2: Formation of Stars and Planets (Protoplanetary Disks)

- protoplanetary disks
- planet-disk interactions
- planets and satellites: formation
- planets and satellite: gaseous planets

method: numerical

### **P3: Formation of Stars and Planets (Planetary Systems)**

planets and satellites: atmospheres  
planets and satellites: dynamical evolution and stability  
planets and satellites: formation  
planets and satellites: terrestrial planets  
planets and satellites: gaseous planets  
planets and satellites: oceans  
planets and satellites: individual (... , ...)  
gravitational lensing: micro  
techniques: radial velocities  
comets: individual(... , ...)  
minor planets, asteroids: individual(... , ...)

### **Q: Interstellar Phenomena**

ISM: clouds  
ISM: molecules  
ISM: supernova remnants  
ISM: structure  
ISM: abundances  
Galaxy: center  
X-rays: ISM  
infrared: ISM  
cosmic rays  
dust, extinction  
acceleration of particles

### **R: Galaxies**

galaxies: individual(... , ...)  
galaxies: spiral  
galaxies: ISM  
galaxies: star formation  
galaxies: starburst  
ISM: molecules  
methods: data analysis

### **S: Active Galactic Nuclei**

galaxies: active  
galaxies: individual(... , ...)  
galaxies: jets  
galaxies: nuclei  
quasars: individual(... , ...)  
quasars: absorption lines  
black hole physics  
magnetohydrodynamics (MHD)  
radiative transfer  
relativistic processes  
techniques: interferometric  
techniques: high angular resolution  
radio continuum: galaxies

**T: Clusters of Galaxies**

galaxies: cluster: general  
large-scale structure of universe  
X-rays: galaxies: clusters

**U: Cosmology**

cosmology: theory  
cosmology: observations  
large-scale structure of universe  
cosmological parameters  
dark matter  
cosmic background radiation

**V1: Instrumentation (Radio)**

telescopes  
instrumentation: detectors  
techniques: interferometric  
techniques: spectroscopic  
space vehicles: instruments  
cosmic background radiation  
cosmology: observations  
radio lines: ISM  
polarization

**V2: Instrumentation (Optical, Infrared, Gravitational Waves, and Others)**

instrumentation: adaptive optics  
instrumentation: spectrographs  
instrumentation: detectors  
instrumentation: high angular resolution  
instrumentation: miscellaneous  
instrumentation: photometers  
space vehicles: instruments  
telescopes  
techniques: high angular resolution  
techniques: image processing  
techniques: imaging spectroscopy  
methods: data analysis  
astronomical databases: miscellaneous  
surveys  
astrometry  
atmospheric effects  
infrared: general

**V3: Instrumentation (X-Ray and Gamma-Ray)**

instrumentation: detectors  
instrumentation: high angular resolution  
instrumentation: polarimeters  
techniques: imaging spectroscopy  
space vehicles: instruments  
telescopes

gamma-ray burst: general

X-rays: general

### **W: Compact Objects**

accretion, accretion disks

stars: neutron

stars: black holes

stars: dwarf novae

binaries: close

X-ray: binaries

black hole physics

gravitational waves

radiative transfer

supernovae: general

gamma-ray burst: individual(..., ...)

hydrodynamics

magnetohydrodynamics (MHD)

neutrinos

radiation: dynamics

shock waves

### **X: Galaxy Formation**

galaxies: evolution

galaxies: formation

galaxies: high-redshift

galaxies: active

galaxies: nuclei

galaxies: ISM

galaxies: star formation

galaxies: luminosity function, mass function

galaxies: clusters: general

galaxies: dwarf

galaxies: interactions

galaxies: starburst

quasars: supermassive black holes

quasars: general

intergalactic medium

methods: numerical