



## Which are the OPC Categories?

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### Which are the OPC Categories?

The Observing Programmes Committee (OPC) is the body in charge of reviewing, evaluating on scientific merit, and ranking the proposals submitted in response to a call for the use of ESO observing facilities of the La Silla Paranal Observatory and thereby advise the Director General on the distribution of observing time, taking account of ESO's scientific policy. The OPC is assisted in its task by Expert Panels covering specific scientific areas, called *Categories*. The OPC Categories are listed below. When submitting a proposal, the Principal Investigator and Co-investigators are requested to choose the appropriate OPC category for their proposal.

#### A - COSMOLOGY AND THE INTERGALACTIC MEDIUM

- A1 Galaxies in their environment (e.g. galaxies in groups and clusters, merging galaxies, galaxy interactions, ram-pressure stripping of galaxies in groups and clusters)
- A2 Global properties of galaxy groups, clusters and proto-structures including the intracluster medium
- A3 Dark matter and gravitational lensing
- A4 Intergalactic medium, circumgalactic medium and intervening absorption systems (e.g. Lyman alpha clouds, damped Lyman alpha systems and associated galaxies)
- A5 Discovery surveys and the statistical study of galaxy properties (e.g. spectroscopic and redshift surveys, identifications, large scale structure, galaxy luminosity function and mass function, surveys for active galactic nuclei)
- A6 Reionization and cosmic dawn (probes of reionization, galaxies in the epoch of reionization)

A7 Cosmological parameters (e.g. distance scale, dark energy, fundamental physics).

## B - GALAXIES

B1 The Milky way and local group galaxies

B2 Resolved and unresolved stellar populations in galaxies beyond the Local Group (e.g. stellar metallicity, star formation histories)

B3 Galaxy structure, dynamics and kinematics (e.g. bulges, disks, morphology, in/outflows, dark matter inside galaxies, stellar orbits)

B4 Dwarf galaxies, stellar clusters in galaxies and satellite galaxies

B5 Galactic centre, galaxy nuclei and supermassive black holes

B6 Physics of Active Galactic Nuclei

B7 Interstellar medium and star formation in galaxies (e.g., in/outflows, starburst galaxies, gas-phase metallicity, dust in galaxies)

## C - INTERSTELLAR MEDIUM, STAR FORMATION and PLANETARY SYSTEMS

C1 Gas and dust, giant molecular clouds, cool and hot gas, diffuse and translucent clouds

C2 Chemical processes in the interstellar medium

C3 Star forming regions, globules, protostars, HII regions

C4 Pre-main-sequence stars (massive PMS stars, Herbig Ae/Be stars and T Tauri stars)

C5 Outflows, stellar jets, HH objects

C6 Main-sequence stars with circumstellar matter, early evolution

C7 Young binaries, brown dwarfs, exosolar planet searches

C8 Solar system (planets, comets, small bodies)

## D - STELLAR EVOLUTION

D1 Main-sequence stars

- D2 Post-main-sequence stars, giants, supergiants, AGB stars, post-AGB stars
- D3 Pulsating stars and stellar activity
- D4 Mass loss and winds
- D5 Supernovae, pulsars
- D6 Planetary nebulae, nova remnants and supernova remnants
- D7 Pre-white dwarfs and white dwarfs, neutron stars
- D8 Evolved binaries, black-hole candidates, novae, X-ray binaries, CVs
- D9 Gamma-ray and X-ray bursters
- D10 OB associations, open and globular clusters, extragalactic star clusters
- D11 Individual stars in external galaxies, resolved stellar populations
- D12 Distance Scale - stars

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categories

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Phase 1

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