

COMMISSION J1

**GALAXY SPECTRAL ENERGY
DISTRIBUTIONS**

*GALAXY SPECTRAL ENERGY
DISTRIBUTIONS*

**PRESIDENT
VICE-PRESIDENT
SECRETARY
ADVISOR**

**Nikolaos D. Kylafis
Ralf Siebenmorgen
Ignacio P. Ferreras
Cristina C. Popescu**

ORGANIZING COMMITTEE

**Mederic Boquien, Michael J. I. Brown,
Elisabete da Cuhna
Samir Salim**

Annual REPORT 2022–2023

The spectral energy distributions (SEDs) of galaxies contain information on the stellar, gaseous, and dust content in galaxies, as well as on their cosmic rays and magnetic fields. Because of the multi-wavelength dimension and the large variety of physical processes involved, galaxy SEDs are of interest for many different astrophysical communities, both observational and theoretical. Accordingly, the mission of Commission J1 continues to be that of providing a forum for observers and theoreticians working in different fields of galaxy formation and evolution, cosmology, interstellar matter, our Galaxy and the nearby universe, stars and stellar evolution, high energy astrophysics, and astro-particle physics to tackle current challenges in modern astrophysics through galaxy SEDs.

The Galaxy Spectral Energy Distribution Commission (Galaxy SED, C.J1) is an Inter-Commission, shared among Division D (High Energy Phenomena and Fundamental Physics), Division G (Stars and Stellar Physics), Division H (Interstellar Matter and Local Universe), and Division J (Galaxies and Cosmology). The parent division is Division J.

To date the commission has a total of 227 members, of which 9 are junior members. The number of members continue to increase each year, following the trend from previous years.

In the 2022-2023 period, the President of Commission J1 participated in

the parent Division's meetings. He read, ranked, and advised on the selection of IAU symposia. He also participated in the ranking and the selection of the IAU PhD Thesis prize.

The Commission will start a series of talks on relevant topics, to be given on a virtual basis via Zoom. The talks will be recorded and distributed to its members and beyond. The talks are meant to also provide a forum for discussion on hot problems in the field. The talks will run every other month, on the second Monday of the month. The speakers will alternate between senior and junior members, including young postdocs and fellows not yet members of the IAU. The first talk will be given by Aaron Robotham on the 8th of May.