

Annual Report for Commission J1's WG RELIGAS

In the previous triennial period commission J1 on Galaxy Spectral Energy Distributions had two working groups: Reference Library of Galaxy Spectral Energy Distributions (RELIGAS) and From Databases to Spectral Energy Distributions (DB2SED). Both groups produced reports that included specific science recommendations and presented them at the IAU General Assembly in 2018.

Because it was felt that some of the goals of the two groups overlap, it was decided in 2019 to merge the two WGs, but keep the name Reference Library of Galaxy Spectral Energy Distributions (RELIGAS). Merger was approved by the Division J president.

One chair from each of the previous working groups was reappointed as chair of the new merged group, while the other two chairs were appointed in advisory roles. As such the chairs of the merged WG are Samir Salim and Carlotta Gruppioni, and the advisors are Anja Schroeder (President Commission B2) and Michael Brown (OC Commission J1).

The WG has been working to address the following goals:

(i) to analyze the availability and fidelity of observed SEDs of galaxies, and to compare them with what would be necessary to represent the SEDs of actual populations of galaxies (as a function of the environment, mass, redshift, morphology, etc).

(ii) to analyse the availability and fidelity of modeled SEDs and modelling algorithms to represent the SEDs of galaxy populations.

(iii) survey existing databases, models and SED fitting tools and provide recommendations for their use.

WG co-chairs

Samir Salim

Carlotta Gruppioni