

# Galaxy surveys: star formation, environment and AGN feedback as drivers of Galaxy Evolution



**Galaxy surveys: star formation, environment and AGN feedback as drivers of Galaxy Evolution**

- \* Star formation content
- \* Gas content and scaling laws
- \* AGN feedback
- \* Properties of galaxies in voids, groups and clusters

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**KEYWORDS:** galaxy: evolution; galaxies: stellar content; galaxies: star formation; galaxies: ISM; galaxies: structures; galaxy: groups; galaxies: clusters

**SUMMARY:** Galaxy Evolution is at the core of Extragalactic Astronomy. Star formation, environment, and AGN feedback drive Galaxy Evolution. In the era of the large facilities and big data, Galaxy Surveys have an undeniable role in investigating how galaxies form and evolve. The purpose of this symposium is to discuss recent results in the field with the Spanish community, with a special focus on findings delivered from current surveys on Galaxy Evolution facilities, such as CAVITY, J-PAS, J-PLUS, WEAVE, and SKA(-pathfinders). The symposium will consist of several sessions covering the following topics: 1) Star formation and stellar content: Integrated and spatially resolved properties of star formation history in nearby galaxies. Identification and characterization of galaxy populations and connections between morphology and galaxy populations at the local and far-way Universe. 2) Gas content and scaling laws: Molecular gas content in galaxies, and scaling laws: Gas accretion and the mass assembly history of galaxies in different environments. 3) AGN-feedback: Outflows of ionized or neutral gas in galaxies with AGNs. Connection with winds. Co-evolution of star formation in galaxies and nuclear activity. 4) Properties of galaxy groups, and clusters: Identification of voids, groups, clusters and proto-clusters in galaxy surveys. Characterization of galaxy populations in proto-clusters, voids, and galaxy overdensities. The role of groups, clusters and proto-clusters in driving the star formation in galaxies.

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