

PROJECTS FOR SUMMER STUDENTS 2023

| Nº | TITULO DEL PROYECTO | DIRESTOR/ES |
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| 1 | "Probing the properties of HII regions in starburst and quenched galaxies" | Dr. Sébastien Comerón & Dr. Johan H. Knapen |
| 2 | "Selective comparison of simulated and observed backplash galaxies in clusters" | Dr. Ignacio Ferreras & Andrea Negri |
| 3 | "A machine learning pilot study of the black-hole population" | Dr. Daniel Mata Sánchez |
| 4 | "Resolving the ages of Milky Way stars in the Gaia era" | Dra. G. Battaglia & Emma Fdez-Alvar & Carme Gallart |
| 5 | "Understanding the quasar clustering and halo occupation distribution in different cosmic web environments" | Dra. Ginevra Favole; Dr. Francisco Kitaura y Dr. Andres Balanguera |
| 6 | "Exploring Sulfur in Ultracool Atmospheres" | Dr. Eduardo L. Martín; Dr. Nicolas Lodieu & Junyan Zhang |
| 7 | "Generating A Semi-Empirical MILES Stellar Library With Variable Carbon Abundances" | Dr. Adam Thomas & Dr. Alexandre Vazdekis |
| 8 | "Exploring the angular momentum of protocluster galaxies at $z \approx 1.5$ " | Dr. José Pérez-Martínez & Dr. Helmut Dannerbauer |
| 9 | "Generic and optimal strategies for multi-telescope to follow-up the electromagnetic counterparts of gravitational wave sources" | Dr. Sk Javed Rana |
| 10 | "A statistical study of cluster versus dispersed star formation activity in the solar neighbourhood" | Dr. Eduardo L. Martín & Dra. Marusa Zejal |
| 11 | "Characterization and validation of Lyman-alpha forest mock lightcone simulations for the DESI survey" | Dr. F. Kitaura; F. Sinigaglia y Andrés Balanguera |
| 12 | "Shedding Light on Solar Filament Evolution: The Bright Point Connection" | Dr. Christoph Kukein & Dr. Andrea Diercke |
| 13 | "The dependence of the luminosity function on the magnitude gap in the C-EAGLE numerical simulation" | Dr. Stefano Zarattini & Alfonso Lopez Aguerri |