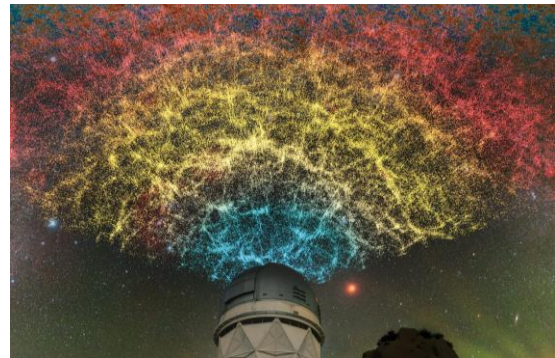
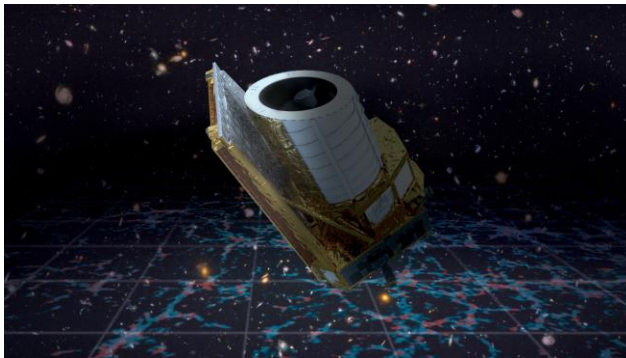


Predocctoral position in Observational Cosmology at CIEMAT (Madrid)

Cosmology and Fundamental Physics with Euclid and DESI (409-PREAT1-PDI24)

The CIEMAT (Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas) Department of Basic Research announces the upcoming opening of a **4-year predoctoral position** for outstanding MSc graduates interested in working in observational cosmology with the goal of obtaining a PhD Thesis. The 4-year PhD contract is funded by the “César Nombela” Research Talent Attraction Aid (2023) from the Community of Madrid (Ref. 2023-T1/TEC-29011).



CIEMAT currently participates in several ongoing galaxy surveys with the aim of pinning down the nature of dark energy: DESI (Dark Energy Spectroscopic Instrument) survey at the Kitt Peak Observatory (<https://www.desi.lbl.gov/>), LSST (Large Survey for Space and Time) at the Rubin Observatory (<https://lsstdesc.org/>), and the Euclid mission (<https://www.euclid-ec.org/>), launched on 1st July 2023. The PhD student will be expected to work with the huge datasets of these projects, with a particular focus on Euclid and DESI, performing statistical analyses of the characteristics of the detected objects, in order to understand the large-scale structure of the Universe and the influence of the dark energy revealed by them. We also encourage new ideas and directions that our students may want to pursue.

We seek candidates with a Master's Degree in Physics at the time of appointment (expected during **Spring 2025**). The main considerations for selection are excellent grades, very good English knowledge and a strong training in cosmology. Research and programming experience will be valued. A background in astrophysics and/or fundamental physics is desirable as well.

We offer close supervision and a stimulating international environment with expected **research stays in international institutions and laboratories**, presentation of results at meetings and conferences, and observation shifts.

For any question related to this position, please contact: Anna Porredon (annamaria.porredon@ciemat.es) and/or Eusebio Sánchez (eusebio.sanchez@ciemat.es).

CIEMAT is an affirmative action/equal opportunity employer. Eliminating gender inequalities by promoting equal opportunities for everyone is a core compromise of our group, and we are committed to taking the necessary actions to close the gender gap.