

RESEARCH PROGRAM NO. 5

Predetermination and publication of the criteria for the evaluation of qualifications and the interview: on **14.12.2022** at **14:00** The Commission in charge announces the criteria for assessing qualifications and the interview by publishing them on the Department's website

Publication of the results of the qualification assessment as well as indication of the names of the candidates admitted to the interview: on **15.12.2022** at **12:00** The Commission in charge discloses the criteria for the evaluation of qualifications and the indication of the names of the candidates admitted to the interview by publication on the Department's website and contextual email communication to each of the candidates

The interview: on **16.12.2022** starting from **10:00** The interview will take place, in any case, electronically (video conference via Skype) by contacting il Prof. Enzo Franco Branchini at the address e-mail: enzo.franco.branchini@unige.it, phone number: +39 3201716011

Such a notice is equivalent to notification to all intents and purposes.

Scientific coordinator: Prof. Enzo Franco BRANCHINI

NO. 1 research fellowship - Duration years 1 – Annual pre-tax amount: € 23.250,00

Funding: PRIN-MIUR 2017 20179P3PKJ “From Darklight to Dark Matter: understanding the galaxy/matter connection to measure the Universe”.

Title: Statistical analysis of the spatial distribution of galaxies in future surveys.

Description: Large galaxy surveys allow us to study the nature of the Dark components of the Universe by analysing the spatial distribution of the galaxies over large scales. This type of study is of great importance at the start on new, large observational campaigns, particularly through the Euclid space mission. The candidate is required to develop, validate and, apply statistical tools to analyse the distribution of the galaxies in the Euclid spectroscopic surveys. The candidate will join the activity of our research group and is expected to collaborate with the members of the Euclid Consortium.

Scientific disciplinary sector: FIS/05 ASTRONOMIA E ASTROFISICA

Place: Dipartimento di Fisica (DIFI)

Required degree: Dottorato di ricerca in Fisica o Astronomia.

Subjects of the interview: The candidate should be familiar with the study of the cosmic structures and with the statistical tools used in their analysis. The candidate should also be familiar with the standard programming languages (C, C++ and/or Python) and with the data analysis pipeline of the Euclid satellite mission.

The candidate will need to prove his/her knowledge of the english language.