



**Deadline on Dec 15, 2019**

**Job description:**

We announce a 3-yr (2+1) CNRS/ANR postdoctoral position at the LAPTh, Annecy, France, starting in Fall 2020 (earlier/later start possible). Application and selection will be carried out starting in October 2019, until the position is filled.

We expect the successful candidate to work on theoretical predictions for compact object populations in the Galactic bulge, modelling the formation and evolution of different classes of high-energy emitters. Multi-wavelength and multi-messenger signatures of such populations will also be explored, from radio to gamma rays.

We look for a person with extensive know-how in compact object population synthesis codes, solid formation in the theory of compact object formation and evolution, as well as knowledge of formation and evolution of nuclear stellar clusters, globular clusters, and the Galactic bulge. We invite also candidates having a background in high-energy astrophysics of compact objects (radio, X, and gamma rays and their multi wavelength connection) to apply.

She/he should be skilled in both analytical and numerical calculations, and have a track record at the level of international standards. Strong motivation to work at the frontier of different fields

will be particularly appreciated (galactic or gravitational dynamics, particle astrophysics/cosmology, dark matter indirect searches and phenomenology).

This position is embedded in the context of the project "Galactic high-energy Emission from Compact Objects" (GECO), funded by the French National Agency for Research (ANR), PI: F. Calore. This incentive starting grant aims to scrutinise and understand the origin of high-energy, multi-wavelength, emissions from the Galactic bulge, characterising point-source populations therein and sharpening our diagnostic capabilities on dark matter.

The candidate will be hosted in the Astroparticle & Cosmology team of LAPTh.

Applicants must hold a PhD at the start of the contract, and experienced candidates are strongly encouraged to apply.

The net salary is ~2.4-2.8k€/month depending on experience, and includes social insurance and up to ~35 days of vacation. Travel and research funding is guaranteed by the ANR starting grant.

Application: The application file should include a CV, a list of publications, a research summary, a research statement (everything in one single PDF). Email header for application file: "Application file of applicant's name, applicant's first name"

Reference letters: A maximum of 3 letters of recommendation should be sent directly by the candidate's referees. Email header for letters: "Letter for applicant's name, applicant's first name"

Application file and letters of recommendation should be addressed to Francesca Calore at [postdoc\\_geco@lapth.cnrs.fr](mailto:postdoc_geco@lapth.cnrs.fr)

An official application procedure through the CNRS portal will open soon. We will guide all the

candidates through it in due time. Priority will be given to applications received by the 10th of December.

Contact:

Francesca Calore ( [postdoc\\_geco@lapth.cnrs.fr](mailto:postdoc_geco@lapth.cnrs.fr))