



LAPTh PhD in theoretical physics:

**" Multi-Wavelengths probes of the Fermi GeV excess: from radio to X rays
" (H/F)**

The project aims to shed light onto nature of the Fermi GeV excess discovered by the Fermi-LAT telescope at GeV energie towards the Galactic bulge.

The nature of this excess is still a mystery: high-energy emitting compact objects in the Galactic bulge can be responsible of the emission at GeV energies. The topic of the PhD thesis proposed articulates along two main research axis: 1) Predict multi-wavelength signatures of this new population of compact objects from radio to X-ray; 2) Develop dedicated search strategies to look for this population in radio and X rays, with the final goal of discovering (or refuting) the evidence for high-energy emitting compact objects in the Galactic bulge also responsible for the GeV emission.

[Apply](#)