

The Galaxy, High-Energy Astrophysics and Cosmology group at IRAP (Toulouse, France, <http://www.irap.omp.eu/>) is pleased to announce the opening of a 3-year PhD fellowship in Astroparticles and Cosmology at the Institute for Research in Astrophysics and Planetology (IRAP), University of Toulouse, to work on the project “*Probing the universe with cosmological, electromagnetic cascade*” funded by Labex OCEVU.

The PhD work will consist in modelling the high energy electromagnetic cascades that develop on cosmological scales and prepare future observations with the Cherenkov Telescope Array. The aim is to provide constraints on the intergalactic magnetic field, the electron-positron production rate in the Universe, and on other processes such as dark matter decay. More information about the project can be found at <https://www.labex-ocevu.univ-amu.fr/?q=en/node/159>

IRAP (<http://www.irap.omp.eu/>) is located in the south of France, in the beautiful city of Toulouse. It is the largest french institute in astrophysics and covers most fields of astronomy and planetary sciences. Within IRAP, the successful candidate will join a team formed of Dr Julien Malzac, Prof Pierre Jean, and Dr Renaud Belmont. He/she will have access to excellent computing infrastructure, as well as generous travel and research fundings. He/she will also have the opportunity to travel frequently to LUPM (<http://web.lupm.univ-montp2.fr/>) in Montpellier to work in collaboration with Dr Alexandre Marcowith and Dr Johann Cohen-Tanugi.

The deadline for application is April 30th 2014, and the position is expected to start in the fall. Instructions for applying can be found at <https://www.labex-ocevu.univ-amu.fr/?q=en/node/141> Feel free to contact Julien Malzac or Renaud Belmont directly (jmalzac@irap.omp.eu <<mailto:jmalzac@irap.omp.eu>>, rbelmont@irap.omp.eu <<mailto:rbelmont@irap.omp.eu>>)