

## **Posdoctoral position at ICN-UNAM, México, for research in ultra-high energy cosmic rays in the context of the Pierre Auger Collaboration**

The Group of Astroparticle physics of the Department of High Energy Physics at the Institute for Nuclear Sciences of UNAM, has an opening for a postdoctoral fellows in ultra-high energy cosmic rays (UHECR) physics and astrophysics. The position is for one year, renewable for a second one, depending upon funding and performance, and it carries a competitive monthly stipend, as well as basic health insurance for the postdoctoral fellow and his/her dependents. The position is open to researchers from any part of the world, independently of ethnicity, religion and gender.

The selected candidate will research on phenomenological and theoretical aspects of UHECR and multi-messenger high energy astrophysics, in the framework of the Pierre Auger Collaboration. As such, the postdoctoral fellow will have to actively participate in developing original contributions to selected research topics associated with the science objectives of the Collaboration. Specific, but no exclusive, UHECR topics of interests to our group are: (i) nuclei propagation through intergalactic and interstellar magnetic fields and their on-flight interactions, (ii) anisotropy, spectral and composition signatures of various populations of potential astrophysical sources; (iii) data analysis and development of techniques for composition discrimination. Contribution to these topics is welcomed but not mandatory. It is also expected that he or she will also contribute to the day to day operation of the Pierre Auger Observatory through remote and in situ data taking shifts, as well as to the upgrade tasks currently underway.

The Institute of Nuclear Sciences has a stimulating multidisciplinary environment where a fellow can interact with researchers in several areas of high energy physics and astrophysics, and is part of UNAM, which is the largest, most diverse and best funded academic institution in Mexico.

Applications will be reviewed by late January 2018, for positions starting in September of the same year. The successful candidate should have received a PhD in Physics, Astrophysics or closely related fields, no longer than 3 years before the starting date of the position, that is no earlier than September 2015. We strongly encourage interested people to apply by sending a single pdf file with their CV and a research plan, while also arranging for three letters of recommendation to be sent to:

Gustavo Medina-Tanco: [gmtanco\[AT\]nucleares.unam.mx](mailto:gmtanco@nucleares.unam.mx)

Cc: Juan Carlos D'Olivo: [dolivo\[AT\]nucleares.unam.mx](mailto:dolivo@nucleares.unam.mx)

For further information, the candidates are encouraged to contact the same addressees.