



**UNIVERSITÉ
DE GENÈVE**

FACULTÉ DES SCIENCES

SECTION DE PHYSIQUE
DÉPARTEMENT DE PHYSIQUE NUCLÉAIRE
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The IceCube and CTA group of the Department of Particle Physics has two openings for

Doctoral Assistant

to pursue doctoral studies and research in Astroparticle Physics.

Candidates must have a Master degree in Physics. They will work in a group composed of Prof. Teresa Montaruli, a Maître d'Enseignement et de Recherche D. della Volpe, Maître Assistant M. Heller, an electronic engineer and a mechanical and an electronic workshop, two postdocs and two PhD students. The PhD student will mainly work on gamma-ray data analysis and setting up a telescope for PeV cosmic rays on the roof of the Geneva Observatory. Its camera will then be used for a CTA gamma-ray telescope currently in Krakow.

She/he will have continuous interactions with more experienced members of the group. This is a great occasion to learn on data analysis and advanced software, to understand physics problems regarding high-energy particle physics and astrophysics while keeping hands on instrumentation in laboratory. CTA has just started construction. It is an observatory composed of two arrays of order of hundred telescopes. Geneva is in charge of the construction of small size telescopes.

The group has developed a new camera for CTA based on SiPM. It is involved in R&D on SiPMs and it has designed a new large area SIPM for CTA in collaboration with Hamamatsu.

Interested candidates have (or will soon receive) the equivalent of a Master degree with a specialisation in Particle Physics or related activities, and outstanding grades.

Candidates should forward at their earliest convenience their curriculum vitae to Prof. T. Montaruli (Teresa.montaruli@unige.ch) who can also provide further information on the positions.