The Department of Nuclear and Particle Physics (DPNC) of University of Geneva has an opening, for a

Ph.D. Position in Experimental Astroparticle Physics

We are offering a Ph.D assistant position to an outstanding and highly motivated candidate to join the space experimental astroparticle physics group. Our group is strongly involved in several leading space astroparticle experiments, including the Alpha Magnetic Spectrometer (AMS-02) on board the International Space Station, the DAark Matter Particle Explorer (DAMPE) satellite launched in December 2015, the gamma-ray burst polarization experiment POALR, launched in 2016, and its follow-up mission POLAR-2, to be installed on the Chinese Space Station in 2027.

The opened position is on the analysis of DAMPE data, although candidates interested in POLAR-2 instrument development and data analysis will also be considered. The Geneva group has led the construction, commissioning, and operation of the DAMPE Silicon Tracker (STK), and are playing major roles in DAMPE data analysis, including cosmic electron, proton, Helium, Carbon and other ions flux measurements. The group has also implemented several Machine Learning algorithms for DAMPE event reconstruction and data analysis. The successful candidate is expected to use the large data sample collected by DAMPE, as well as advanced data analysis algorithm developed by the group, to extend the cosmic ray flux measurement to higher energies and to improve measurement precisions.

The candidate is expected to complete the Ph.D program in 4 years.

The candidate is required to have or be about to obtain a Master degree in experimental particle or astroparticle physics and is capable to carry out independent research.

Interested candidates should submit their CV, a letter of motivation, and to arrange at least one letter of recommendations to be sent, by email to Prof. Xin Wu at xin.wu@unige.ch. Applications will be accepted until the position is filled. Further inquiries can be sent to the same address.