



**UNIVERSITÉ
DE GENÈVE**

FACULTÉ DES SCIENCES
Département de physique
nucléaire et corpusculaire

SÉMINAIRE DE PHYSIQUE CORPUSCULAIRE

SUJET: High Energy Astroparticle Physics in Space with DAMPE and HERD

PAR: Prof. Xin Wu
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RÉSUMÉ:

High energy astroparticle physics in space is a very active and diverse field of research that is playing a crucial role to connect particle physics with astronomy and cosmology, and is complementary to ground base astroparticle experiments such as large area air-shower detectors, neutrino observatories and Cherenkov gamma-ray telescopes.

A large number of space missions have been successfully launched, including AMS-02, PAMELA, FERMI, with several more in the construction or planning phases, for example DAMPE, CALET, ISS-CREAM, JEM-EUSO, HERD. In this seminar I will give an overview to the current status of research in the field and discuss the science goals, detector concepts and status of two missions that the Département de physique nucléaire et corpusculaire of the University of Geneva is participating: the DArk Matter Particle Explorer (DAMPE) satellite mission and the High Energy Radiation Detection facility (HERD) facility on board the Chinese Space Station.

INFORMATION : <http://dpnc.unige.ch/seminaire/annonce.html>

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