



## SÉMINAIRE DE PHYSIQUE CORPUSCULAIRE

- SUJET:** Compton-Pair Production Space Telescope: Extending Fermi-LAT Discoveries in MeV Gamma-Ray Astronomy
- PAR:** Dr Regina CAPUTO  
University of California, Santa Cruz & SCIPP
- DATE:** Mercredi 7 septembre 2016, 11h15
- LIEU:** Science III, Auditoire 1S081  
Boulevard d'Yvoy, 1211 Genève 4

### RÉSUMÉ:

The gamma-ray energy range from several hundred keV to a hundred MeV has remained largely unexplored since the observations by instruments on the Compton Gamma-Ray Observatory (1991- 2000) and on INTEGRAL (since 2002). This energy range is particularly challenging because it is firmly in the Compton-dominated regime where the interaction cross section is minimized. Accurate measurements are critical for answering a broad range of astrophysical questions. We are developing a MIDEX-scale wide-aperture discovery mission, Compton-Pair Production Space Telescope (ComPair), to investigate the energy range from 200 keV to >500 MeV with good energy and angular resolution and with sensitivity approaching a factor of 20-50 better than previous measurements. This instrument will be capable of measuring both Compton-scattering events at lower energies and pair-production events at higher energies. ComPair will build on the heritage of successful space missions including Fermi-LAT, AGILE, AMS and PAMELA.

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

ORGANISATEURS: [Sergio.Gonzalez@unige.ch](mailto:Sergio.Gonzalez@unige.ch) & [Domenico.Dellavolpe@unige.ch](mailto:Domenico.Dellavolpe@unige.ch)