

SÉMINAIRE

Lundi 27 novembre 2006 à 15h00

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Black Holes as Dark Matter Annihilation Boosters

After a brief review on the status of indirect Dark Matter (DM) searches, I will discuss how the formation and growth of Intermediate and Supermassive Black Holes can greatly enhance the density of surrounding DM, thus "boosting" its annihilation signal. I will show that, for typical values of mass and cross section of common DM candidates, these so-called "mini-spikes" would be bright sources of gamma-rays, which could be easily detected with GLAST, and further studied with Air Cherenkov Telescopes. Finally, I will discuss the implications of this scenario for anti-matter and high-energy neutrino searches with upcoming km scale experiments.

Salle André Berthelot, bât. 141

Le café sera servi 15 minutes avant

NB : La présentation d'une carte d'identité ou d'un passeport est exigée à l'entrée du centre. Tous les auditeurs extérieurs sont priés de prévenir à l'avance de leur visite Laure Reuter, tél. 01 69 08 23 50 (U.E. : délai de 24h, hors U.E. : délai de 4 jours).