



I N T E G R A L  
S C I E N C E D A T A C E N T R E

Centre attaché à l'Observatoire de Genève



UNIVERSITÉ DE GENÈVE

## ASTROPHYSICS SEMINAR



Monday, 22 May 2006 at 14:00

# Possible origin of low energy positrons in our galaxy

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**Abstract.** The precise determination by INTEGRAL/SPI of the 511 keV emission properties in our galaxy has proven the existence of anti-matter in our galaxy. Its origin is unknown. However, thanks to SPI findings, it is now possible to exclude a great number of astrophysical sources. Shortly after INTEGRAL's announcement it was realized that Dark Matter could be at the origin of the low energy positrons. After summarizing the implication of SPI findings on possible astrophysical sources, I'll explain the Dark Matter model and discuss its implication for astrophysics, cosmology and particle physics.

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### Additional Information

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The seminars are given in the ISDC "Pavillon" building  
Address: INTEGRAL Science Data Centre, ch. d'Écogia 16, CH-1290 Versoix  
WWW: ISDC Seminars: <http://isdc.unige.ch/?Science+seminars>