

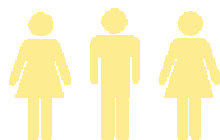
SEMINAIRE SACM

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Juin 2007

11 H 00 Laszlo Liskay
DAPNIA/SACM/LEDA
Bât.130 Pièce 52

Antimatter in materials research: defect spectroscopy and study of porous systems using positrons



Positrons implanted in a solid annihilate within 100 ps-142 ns with an electron of the host material. The lifetime components as well as the momentum distribution of the annihilation radiation carry valuable information on important properties of the sample. Positrons can be used as very sensitive and selective probes of vacancy defects in metals and semiconductors and to study cavities in polymers and properties of porous insulators. After a short review of positron annihilation spectroscopy the potential use of the SELMA/SOPHI intense positron source in materials research will be discussed.



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 : Geneviève
VERON, Tél. : 01 69 08 69 49 (UE : délai de 24h, hors UE : délai de 4 jours) .

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