

# SÉMINAIRE

**Heure  
inhabituelle**

Lundi 27 mars 2006 à **11 h**

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(CERN)

## **A Proposal to study Rare Kaon Decays at the CERN-SPS**

Rare Kaon Decays provide us with an excellent opportunity to shed light on the flavour structure within the Standard Model and beyond. This is because these processes are dominated by short distance physics and the prediction in the Standard Theory are not affected by hadronic uncertainties, a condition seldomly realised in meson decays. After a brief physics introduction and a review of the experimental state-of-the art, the speaker will illustrate a new experiment proposed at the SPS to measure about 100 SM events of the decay  $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ . The proposal builds on the infrastructure and expertise of the previous CERN kaon experiment (NA48) to provide excellent physics potential at relatively small marginal cost.

**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).*