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Jeudi 12 mars 2009 à 14h00

"Status of flavour physics and opportunities for the new physics search in the $b \rightarrow s \ell^+ \ell^-$ mode at LHCb and at SuperB"

I first review the status of flavour physics, discuss the importance of the interplay of high P_T and flavour physics for the new physics search, and then show in the rare decay mode $B \rightarrow K^* \ell^+ \ell^-$ in an exemplary mode how well new physics signals can be separated from hadronic uncertainties using soft-collinear effective theory. Moreover, I show how to design new observable in this decay mode optimized for the detection of specific new physics structures. Finally, I briefly discuss the opportunities in the corresponding inclusive mode $\bar{B} \rightarrow X_s \ell^+ \ell^-$.

Salle 101 du LAL - Bât. 200, Orsay

Thé et café seront servis ¼ h avant le séminaire.

Organisation : François Couchot (LAL)

3/03/09