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Lundi 31 mars 2008 à 11:00

Searching for signals beyond SM in B meson decays.

I will discuss the recent topics from the B factory experiments and their theoretical issues. In the first part of my talk, I will overview the new physics search in the CP violating phenomena in the $b \rightarrow s$ transition processes and the complementarity of the e^+e^- machines (Babar, Belle and SuperB) and the hadronic machines (LHCb and Tevatron). In the second part of my talk, I will discuss the issue of the hadronic uncertainties in B physics. I will discuss how to improve our theoretical predictions of the strong interaction effect in the heavy quark systems in the future high statistic measurements. As an example, I will discuss the radiative leptonic $B \rightarrow l\nu\gamma$ decay, which may allow us to extract some information on the $B \rightarrow \gamma$ transition form-factor. I will show that it could be particularly important to control the photon background in the leptonic B decays ($B \rightarrow l\nu$ and $B \rightarrow ll$ etc.) where a new physics effect is under investigation.

Salle 101 du LAL - Bât. 200, Orsay

Thé et café seront servis ¼ h avant le séminaire.

Organisation : François Couchot (LAL)

26/03/08