



Séminaire du Laboratoire de l'Accélérateur Linéaire

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KEK/Belle, Japan

Jeudi 17 Avril 2008 à 16 :00

Future B Physics Program at KEK

KEKB is an asymmetric energy B factory with the highest luminosity in the world. The Belle group at KEKB has played an important role in establishing the Standard Model by precise test of Kobayashi-Maskawa model of quark mixing and CP violation in the various aspects together with BaBar. If new physics exists at the TeV energy scale, it is quite conceivable that deviations from the predictions of the Standard Model will be observed in the decays of heavy flavors such as B, D and tau. By increasing the luminosity of KEKB by a factor of ~ 50 , the flavor physics will enter a new era of precision measurements in which the possibility of detecting new physics effects will be greatly improved. Therefore, detailed measurements at the upgraded KEKB facility can provide an excellent opportunity to examine the fundamental properties of CP violation and flavor mixing in new physics. In this talk, physics program and design of the machine and the detector will be reviewed. Especially, our strategy to reach the luminosity close to 10^{36} will be presented in detail.

Salle 101 du LAL - Bât. 200, Orsay

Thé et café seront servis 1/4 h avant le séminaire



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