



Contribution ID: 14

Type: **not specified**

CP Violation in B Meson Decays

Wednesday 29 August 2007 11:00 (45 minutes)

In particle physics, a theory called Standard Model has been established in the last two decades, which successfully describes almost all the known experimental results up to O(100) GeV energy scale. However it is widely believed that the Standard Model is only an approximation of an unrevealed theory that governs physics at O(1000) GeV energy scale, and purposes of the modern high energy physics experiments are to search for and elucidate the new physics. Among several possible approaches to this, flavor physics challenges the new physics through high precision measurements of decays of B mesons, D mesons, tau leptons and so on, which provide complementary informations to the experiments at energy frontier experiments such as the ones at LHC. In this talk, I will describe the quantitative confirmation of Kobayashi-Maskawa scheme of quark mixing and CP violation in B Factory experiments, and describe the upgrade program of the B factory at KEK to challenge the new physics from the studies of flavor physics.

Presenter: Prof. YAMAUCHI, Masanori (KEK, Japan)

Session Classification: CP and T Violation