

Invisible & semi-invisible decays from Belle

Tuesday 21 February 2012 19:00 (20 minutes)

B meson decays to invisible final states. e.g. $B \rightarrow \nu\bar{\nu}$ are very highly suppressed in the Standard Model (SM). Similarly, B decay to semi-invisible final states such as $B \rightarrow K^*\nu\bar{\nu}$ are highly suppressed. As a result, these decays can provide a good probe to search for new physics beyond the SM. Experimentally, it is very difficult to search for these decays due to invisibility of the final state particles. Making use of the event kinematics of the $Y(4S) \rightarrow BB$ decays. Belle has searched for these decays using the hadronic tagging method. We present these searches here.

Presenter: Prof. KWON, Youngjoon (Yonsei Univ.)

Session Classification: Parallel: E2