

Study of $B^0 \rightarrow l^+ \tau^-$ using untagged method at Belle

The lepton-flavor-violating B decays $B^0 \rightarrow l^+ \tau^-$ ($l = e, \mu$) are forbidden in the Standard Model(SM) in the absence of nonzero neutrino masses, but can occur via one-loop diagrams if neutrino oscillations are included. In this presentation, suppression of background using Neural Network and signal sensitivity and expected upper limit will be presented. In addition, systematic uncertainty will be presented a little bit.

Primary author: Ms SOHN, YoungSoo (Yonsei University)

Presenter: Ms SOHN, YoungSoo (Yonsei University)