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Tree-level new physics searches in B decays to τ leptons at Belle

Semileptonic and leptonic B meson decays involving a heavy τ lepton are sensitive to new physics scenarios with an extended Higgs sector, such as the type II two Higgs doublet model. Branching ratios for the decays $B \rightarrow D^* \tau \nu$ and $B \rightarrow D \tau \nu$ in excess of the Standard Model expectation reported by both the Belle and BaBar experiments have thus generated broad interest. In this talk we report on updated results of semileptonic and leptonic B meson decays involving a τ lepton, based on the large data sample accumulated by the Belle experiment at the KEKB asymmetric energy e^+e^- collider at KEK, Japan.

Summary

Primary author(s) : Prof. KWON, Youngjoon (Yonsei University)

Presenter(s) : HASENBUSCH, Jan (Bonn University)

Clasificación de temáticas : Beyond the Standard Model