

Measurements of $B \rightarrow D^{(*)} \tau \nu$ and $B \rightarrow \mu \nu$ at Belle

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Indications for lepton flavour universality violation in the mode $B \rightarrow D^{(*)} \tau \nu$ have been of interest and can be a hint for the New Physics effect.

We report a new measurement on $R(D)$ and $R(D^*)$, branching ratio of $B \rightarrow D^{(*)} \tau \nu$ over $B \rightarrow D^{(*)} \ell \nu$ where $\ell = e, \mu$, using semi-leptonic tag method.

We also report our new measurement on $B \rightarrow \mu \nu$, which is also sensitive to New Physics.

The analyses are based on the full data set recorded by the Belle detector at the $Y(4S)$ resonance containing 772 million $B\bar{B}$ pairs from $e^+ e^-$ collisions produced by the KEKB collider.

Primary author: KWON , Youngjoon (Yonsei University)

Presenter: KWON , Youngjoon (Yonsei University)

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