



Contribution ID: 61

Type: Oral

Lepton Flavour Universality in B Decays and Other Recent Results at Belle

Wednesday, 5 June 2019 15:00 (30 minutes)

Indications for lepton flavour universality violation in the mode $B \rightarrow D^{(*)} \tau \nu$ and $B \rightarrow K^{(*)} l \nu$ have been of interest

and can be a hint for the New Physics effect.

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

and on $R(K^{(*)})$ (branching ratio of $B \rightarrow K^{(*)} \mu^+ \mu^-$ over $B \rightarrow K^{(*)} e^+ e^-$).

A few more results from Belle experiment are also covered.

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

Collaboration name

Belle

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Session Classification: Flavor and Precision Physics

Track Classification: Flavor and Precision Physics