29th International Symposium on Lepton Photon Interactions at High Energies



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Search for New Physics with semi-leptonic B Decays at Belle

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Summary

Semi-leptonic B decays B -> D() tau nu have been of interest because of the high sensitivity to the New Physics. Recent indication of a discrepancy of R(D) and R(D) (branching ratio of B \rightarrow D() tau nu over $B \rightarrow$ D() l nu where l + e, mu) from the Standard Model prediction can be a hint for the New Physics effect.

In this talk, the new measurement of R(D) and R(D) based on semileptonically tagged $B\to D^{(1)} \times P$ has decays as well as the first measurement of the D^polarization in $B\to D^{(1)} \times P$ has decays are presented. This talk also covers new Belle search for the purely leptonic decay B $\to \mathbb{R} \times P$ has decays are presented.

The analyses are based on the full data set recorded by the Belle detector at the KEKB $e^+ e^-$ collider containing 772 million B\bar{B} pair events.

Primary authors: NISHIDA, Shohei (KEK); ADAMCZYK, Karol

Presenter: ADAMCZYK, Karol

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