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Measurement of the decay B -> D^{*} l⁺ nu and determination of |V_{cb}| at Belle

Saturday, 24 July 2010 11:00 (13 minutes)

We present measurements of the branching fraction and the HQET form factors rho², R₁ and R₂ for the decay B0 -> D-l⁺ nu using untagged Upsilon(4S) -> B anti-B events. The Cabibbo-Kobayashi-Maskawa matrix element $|V_{cb}|$ is extracted and a test of the form factor parametrization is presented. The results are based on a large data sample recorded by the Belle detector at the KEKB e+ e- collider.

The measurement of the decay $B + \rightarrow$ anti-D0 l nu does not rely on charged slow pion reconstruction, and thus allows us to cross-check measurements of B0 -> D*- l+ nu. We also present measurements of the branching fraction and of the HQET form factors rho^2, R_1 and R_2 obtained with this decay.

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