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

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We present measurements of the branching fraction and the HQET form factors rho 2 , R_1 and R_2 for the decay $B0 \to D-l^+$ nu using untagged Upsilon(4S) $\to B$ 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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