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Leptonic and semileptonic B decays at Belle

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We present a measurement of the decay $B \rightarrow \tau\nu$ using the full Belle data set including $772 \times 10^6 B\bar{B}$ collected at the KEKB asymmetric-energy e^+e^- collider. The $B\bar{B}$ pair events are tagged by fully reconstructing one B meson decaying in a hadronic mode and detecting the $B \rightarrow \tau\nu$ candidate in the recoil. We obtain the branching fraction for $B \rightarrow \tau\nu$ and present a direct determination of the product of the B meson decay constant f_B and the magnitude of the Cabibbo-Kobayashi-Maskawa matrix element $|V_{ub}|$. The resulting constraints on the charged Higgs boson are also discussed.

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