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Search for $B \rightarrow \tau \nu$

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We present a search for the fully leptonic B decay $B^+ \rightarrow \tau^+ \nu_{\tau}$ in 459M B/anti-B pairs collected at the Upsilon(4S) resonance using the BaBar detector. We select a sample of events with a reconstructed hadronic B decay, $B^- \rightarrow D^0 X^-$, where X represents a combination of charged and neutral light mesons; in the remainder of each event we search for the $B^+ \rightarrow \tau^+ \nu_{\tau}$ signal.

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