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Measurement of $R(D)$ and $R(D^*)$ using semileptonic B tags and leptonic τ decays

We report a measurement of $R(D) = B(B \rightarrow D\tau\bar{\nu}_\tau)/B(B \rightarrow D\ell\bar{\nu}_\ell)$ and $R(D^*) = B(B \rightarrow D^*\tau\bar{\nu}_\tau)/B(B \rightarrow D^*\ell\bar{\nu}_\ell)$, where ℓ refers to either an electron or muon. The dataset consists of 426 fb^{-1} collected at the $\Upsilon(4S)$ resonance by the BABAR detector at the PEP-II asymmetric storage ring collider. We select samples by reconstructing tag-side B mesons in semileptonic decays and signal-side τ in a purely leptonic decay.

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