

Search for the Lepton Flavour Violating decays $\Upsilon(3S) \rightarrow e^\pm \mu^\mp$ and $\Upsilon(2S) \rightarrow e^\pm \mu^\mp$

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Charged lepton flavour violating processes are unobservable in the standard model, but they are predicted to be enhanced in several new physics extensions. We present a search for electron-muon flavour violation in $\Upsilon(3S)$ and $\Upsilon(2S)$ decays to the $e^\pm \mu^\mp$ final state. The search was conducted using data samples consisting of 118 million $\Upsilon(3S)$ and 96 million $\Upsilon(2S)$ mesons, collected at center-of-mass energies of 10.36 and 10.23 GeV, respectively, by the *BABAR* detector at the SLAC PEP-II e^+e^- collider.

I read the instructions

Secondary track (number)

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