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Type: **Ordinary**

Lepton universality and searches for lepton flavor violation

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We present some recent results obtained by the \babar\ experiment on the search for new physics in leptonic and lepton flavor violating (LFV) decays, exploiting the complete datasets collected at the $\Upsilon(4S)$, $\Upsilon(3S)$ and $\Upsilon(2S)$ energies.

We present new limits on the ratio $\Gamma(\Upsilon(1S) \rightarrow \tau^+\tau^-)/\Gamma(\Upsilon(1S) \rightarrow \mu^+\mu^-)$, on LFV decays of the $\Upsilon(3S)$ and $\Upsilon(2S)$, and on τ decays to three charged leptons or $\tau \rightarrow e/\mu\gamma$.

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Classification de Session: Rare processes as probes of beyond the SM

Classification de thématique: Experiment