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Testing Lepton Flavor Universality at the Z Pole

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$b \to s\tau\tau$ and $b \to c\tau\nu$ measurements are highly motivated for addressing lepton-flavor-universality-violating (LFUV) puzzles, such as $R_{D^{(*)}}$, $R_{J/\psi}$ and $R_{K^{(*)}}$ anomalies, raised by the data of LHCb, BELLE and BarBar. The planned operation of future e^-e^+ colliders as a Z factory provides a great opportunity to conduct such measurements, because of its relatively high production rates and reconstruction efficiency for B mesons at Z pole. In this project we will pursue a systematic sensitivity study on these measurements at future Z factories. The implications of the outcomes for LFUV new physics will be also explored.

Summary

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