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Flavour Violating τ -Decays in Magnetic Interaction and E_6 Models

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Abstract: In the view of future c - τ -factories, we report an analysis of the rare decays of the τ lepton via $\tau \rightarrow \mu e \overline{e}$, $\tau \rightarrow e \mu \overline{\mu}$, $\tau \rightarrow \mu \mu \overline{\mu}$ and $\tau \rightarrow ee \overline{e}$ in the two models, i.e., in Barut's magnetic interaction model (MIM) and in an E_6 model proposed by Gürsey and his collaborators. The energy distributions of one of the final leptons are given for both models. Numerical estimates reveal that these decays can be as large as 10^{-6} , which may be observed in LEP experiments or at other c - τ factories.



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