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P4.032 Bounds on electromagnetic dipole moments of the tau-neutrino in a $U(1)_{B-L}$ model

M A Hernández-Ruiz and A Gutiérrez-Rodríguez

Universidad Autónoma de Zacatecas, México

We obtain bounds on the anomalous magnetic and electric dipole moments of the tau-neutrino through the process $e^+e^- \rightarrow \nu \bar{\nu} \gamma$ at the Z' pole in the framework of $U(1)_{B-L}$ model. For the parameters of the $U(1)_{B-L}$ model we consider the mixing angle θ' , the coupling constant g'_1 and the heavy gauge boson mass $M_{Z_{B-L}}$. We find that our bounds are of the same order of magnitude as those obtained in other extensions of the standard model.