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

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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 $\theta'$, 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.