

Measurement of the tau EDM at Belle

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We have measured the electric dipole moment (EDM) of the tau lepton using an 833 fb^{-1} data sample collected with the Belle detector at the KEKB asymmetric-energy e^+e^- collider. Using an optimal observable method, we obtain the EDM result with $O(10^{-17})$ ecm uncertainty. The result is consistent with no EDM at the present level of experimental sensitivity and improves the sensitivity by about a factor of three compared with the previous result.

What is your topic?

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