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Sensitivity of T2KK to NSI in propagation

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We study sensitivity to the non-standard interaction in neutrino propagation of the T2KK neutrino long baseline experiment, assuming only the non-zero electron and tau neutrino components epsilon_{ee}, epsilon_{e tau}, epsilon_{tau tau} of the non-standard matter effect, and taking into account the atmospheric neutrino constraint on these parameters. We found that T2KK can restrict the parameters |epsilon_{ee}| < 1, |epsilon_{e tau}|< 0.15. We also discuss how T2KK can distinguish the standard and non-standard CP phases in case these parameters are larger than these bounds.

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