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Sensitivities on NSI parameters from NOvA

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Through the study of neutrino oscillations at the long-baseline NOvA Experiment, it is possible to explore some aspects of physics Beyond the Standard Model (BSM) on the neutrino sector. In this talk, we discuss the current status of the sensitivities on Non-Standard Interactions (NSI) parameters based on the muon (anti)neutrino disappearance simulated data. We focus on how the NSI flavor-changing parameters $|\varepsilon_{\mu\tau}|$ and $\delta_{\mu\tau}$ affect the determination of the standard oscillation parameters $\sin^2(\theta_{23})$ and Δm_{32}^2 , and show the relation between each parameter.

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