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Non-Standard $\bar{\nu}_e \to X$ Oscillations in Double Chooz[1] JAVIER DUARTE, MIT — According to a final fit by G. Karagiorgi, et. al. over short base-line (SBL) experiments, which included updated MiniBooNE neutrino and antineutrino results, (3+1) and (3+2) sterile neutrino mixing models and CP violation do not seem sufficient to reconcile the SBL experiment results. Due to these results, exotic oscillation models should be explored. Double Chooz is a reactor antineutrino disappearance experiment that will be sensitive to non-standard $\bar{\nu}_e \to X$ oscillations. We present a study of non-standard neutrino oscillations at Double Chooz, specifically additional mixing at short baselines.

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