

../plots/UeN.pdf

FIG. 1. Constraints on  $C_{\text{HN}\ell}^e/\Lambda^2$  ( $\text{GeV}^{-2}$ ) as a function of the HNL mass  $m_N$ . Limits shown: ATLAS (2019) [? ], ATLAS (2022) [? ], BEBC(Barouki et al) [? ], Belle [? ], Borexino [? ], CHARM [? ], CMS (2018) [? ], CMS (2022) [? ], KENU (Bryman et al) [? ], NA62 [? ], PIENU (2017) [? ], PIENU (Bryman et al) [? ], PMNS Unitarity [? ], T2K [? ], TRIUMF [? ].

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../plots/UmuN.pdf

FIG. 2. Constraints on  $C_{\text{HN}\ell}^{\mu}/\Lambda^2$  ( $\text{GeV}^{-2}$ ) as a function of the HNL mass  $m_N$ . Limits shown:  $\mu\text{BooNE}$  (Kelly et al) [? ],  $\mu \rightarrow Ne\nu_e$  [? ], ATLAS (2019) [? ], ATLAS (2022) [? ], BEBC [? ], CMS (2018) [? ], CMS (2022) [? ], KEK [? ], NA3 [? ], NA62 [? ], NuTeV [? ], PIENU [? ], PIENU(low  $\mu$  energy) [? ], PMNS Unitarity [? ], PSI [? ], T2K [? ], T2K (Argüelles et al) [? ].

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../plots/UtauN.pdf

FIG. 3. Constraints on  $C_{\text{HN}\ell}^\tau/\Lambda^2$  ( $\text{GeV}^{-2}$ ) as a function of the HNL mass  $m_N$ . Limits shown:  $B \rightarrow N\tau$  [? ],  $D \rightarrow N\tau$  [? ],  $D_s \rightarrow N\tau$  [? ],  $\tau \rightarrow N\mu\nu_\mu$  [? ],  $\tau \rightarrow Ne\nu_e$  [? ], PMNS Unitarity [? ].

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