

FIG. 1. Constraints on $|U_{eN}|^2$ as a function of the HNL mass m_N . Limits shown: ATLAS (2019) [1], ATLAS (2022) [2], BEBC(Barouki et al) [3], Belle [4], Borexino [5], CHARM [6], CMS (2018) [7], CMS (2022) [8], Cosmology [9], DELPHI (long) [10], DELPHI (short) [10], KENU (Bryman et al) [11], L3 (2001) [12], NA62 [13], PIENU (2017) [14], PIENU (Bryman et al) [11], PMNS Unitarity [?], T2K [15], TRIUMF [16].

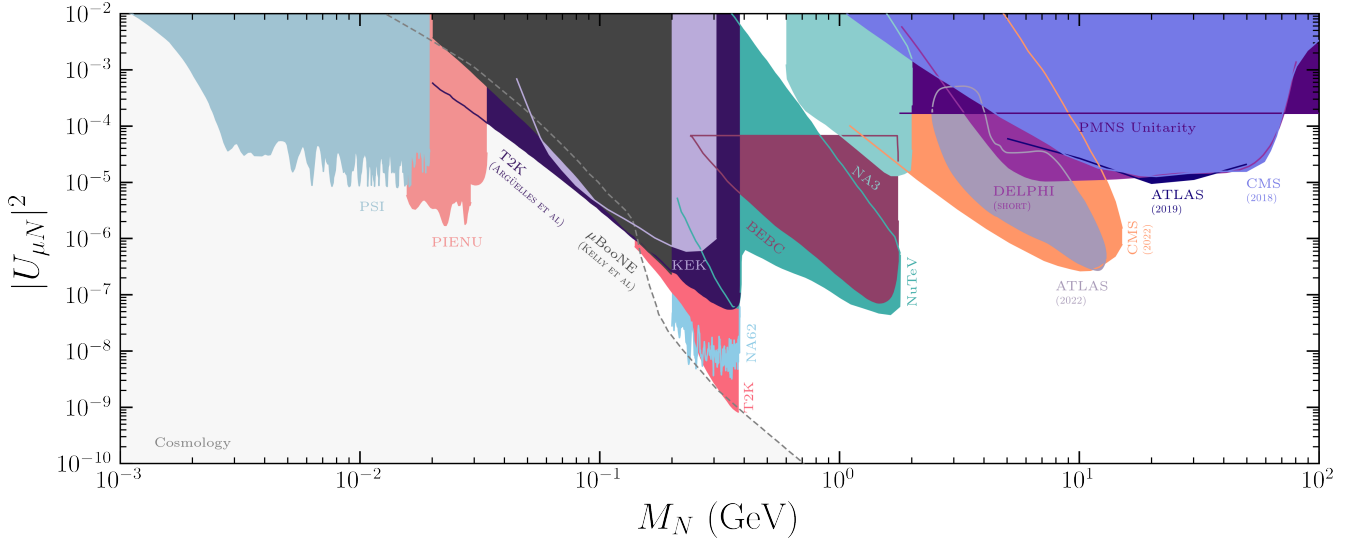


FIG. 2. Constraints on $|U_{\mu N}|^2$ as a function of the HNL mass m_N . Limits shown: μ BooNE (Kelly et al) [17], ATLAS (2019) [1], ATLAS (2022) [2], BEBC [18], CMS (2018) [7], CMS (2018-dilepton) [19], CMS (2022) [8], CMS (8TeV) [20], Cosmology [9], DELPHI (short) [10], KEK [11], NA3 [21], NA62 [22], NuTeV [23], PIENU [24], PIENU(low μ energy) [24], PMNS Unitarity [?], PSI [25], T2K [15], T2K (Argüelles et al) [26].

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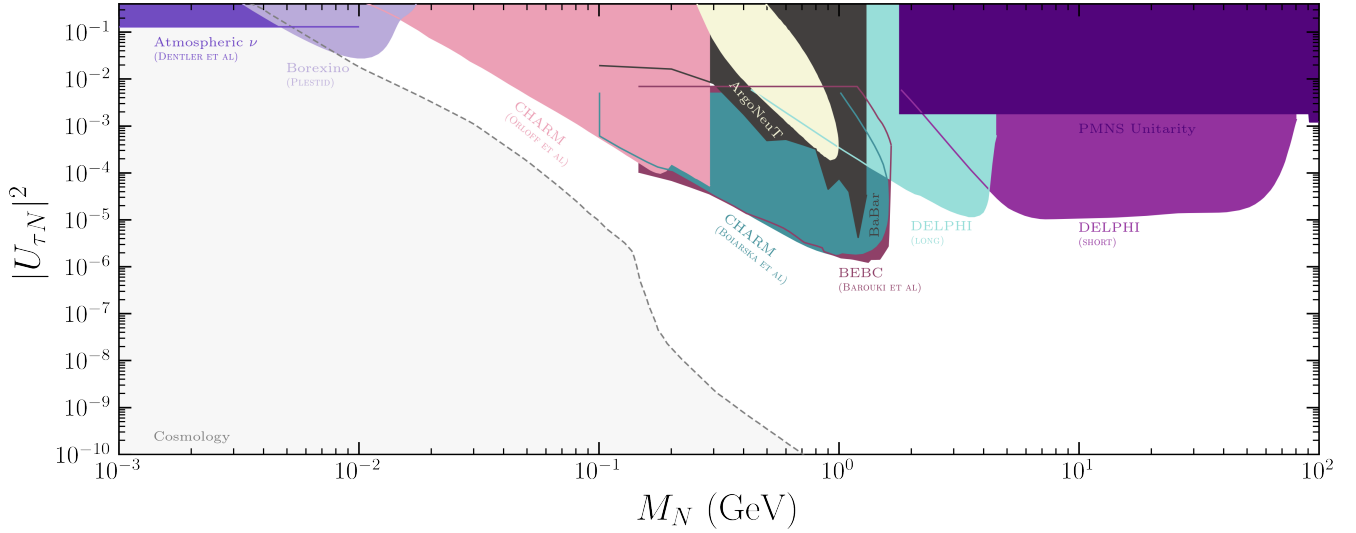


FIG. 3. Constraints on $|U_{\tau N}|^2$ as a function of the HNL mass m_N . Limits shown: ArgoNeuT [27], Atmospheric ν (Dentler et al) [28], BEBC(Barouki et al) [3], BaBar [29], Borexino (Plestid) [30], CHARM (Boiarska et al) [31], CHARM (Orloff et al) [32], Cosmology [9], DELPHI (long) [10], DELPHI (short) [10], PMNS Unitarity [?].

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