

FIG. 1. Standard oscillation regions, varying over all flavor compositions $f_{\alpha,S}$ at the source: normal ordering (NO), upper θ_{23} octant.

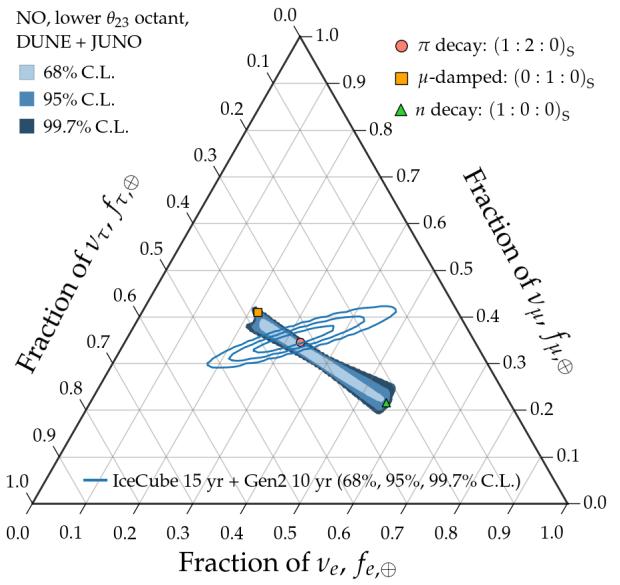
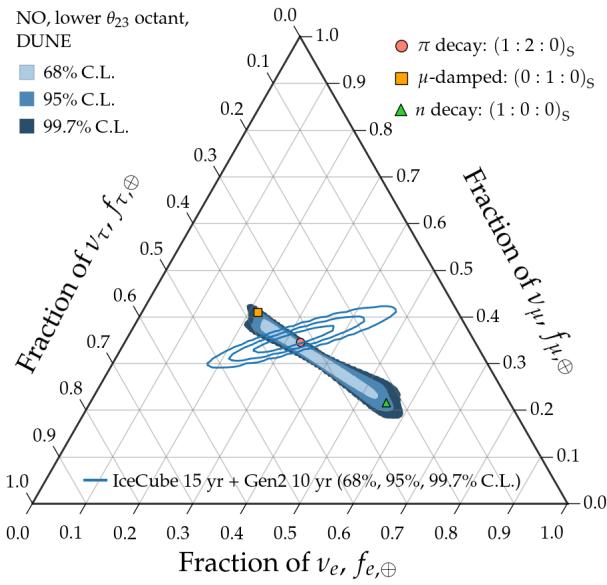
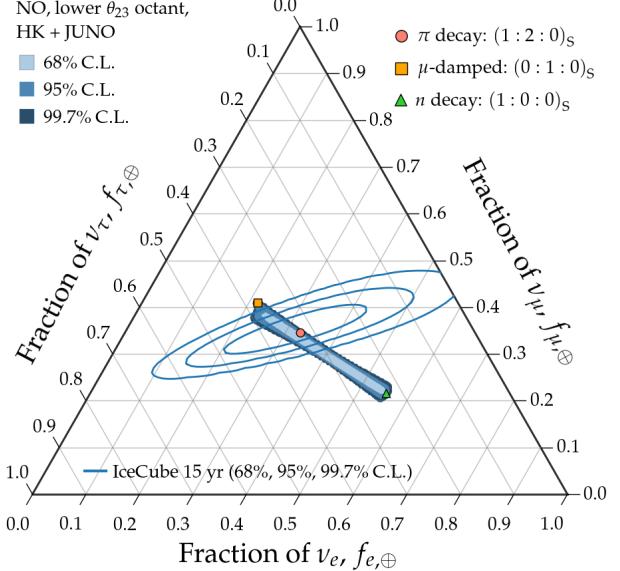
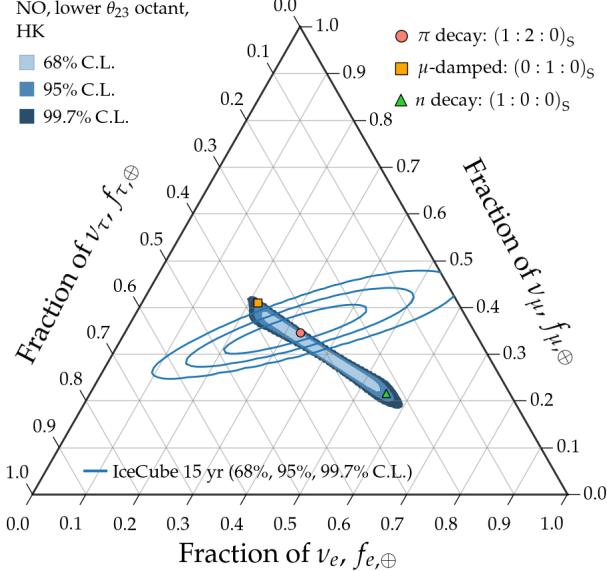


FIG. 2. Standard oscillation regions, varying over all flavor compositions $f_{\alpha,S}$ at the source: normal ordering (NO), lower θ_{23} octant.

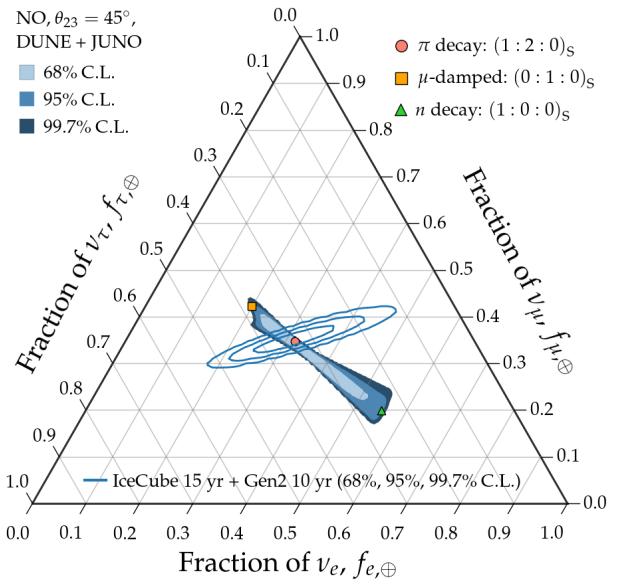
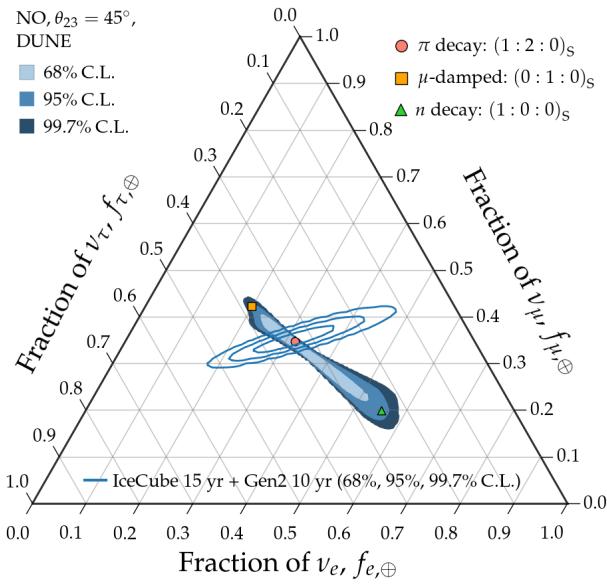
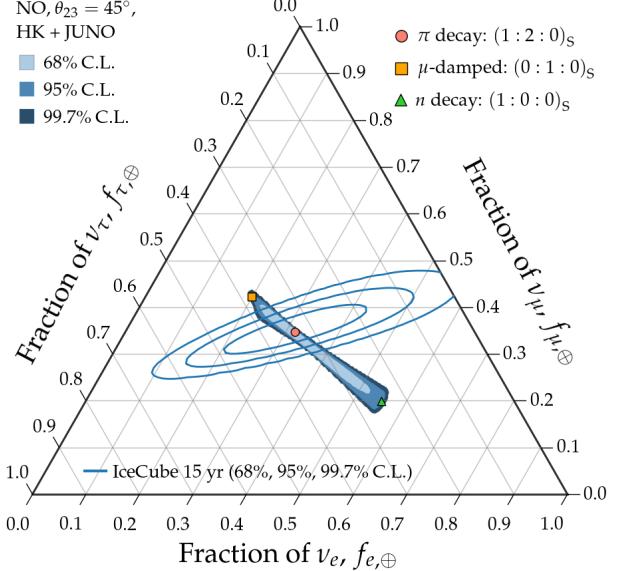
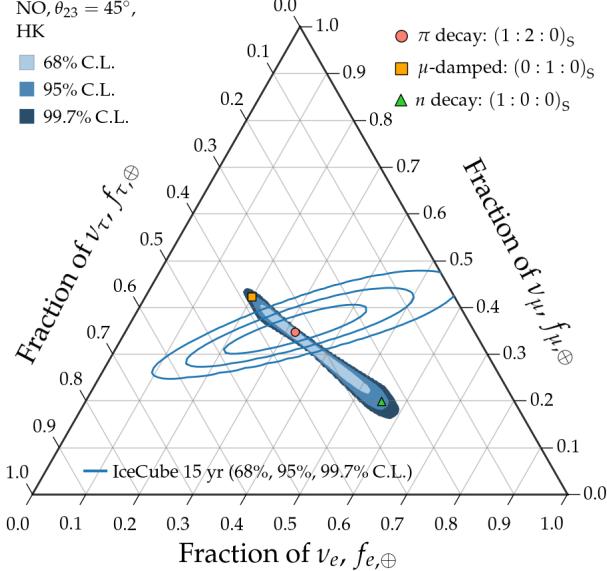


FIG. 3. Standard oscillation regions, varying over all flavor compositions $f_{\alpha,S}$ at the source: normal ordering (NO), $\theta_{23} = 45^\circ$.

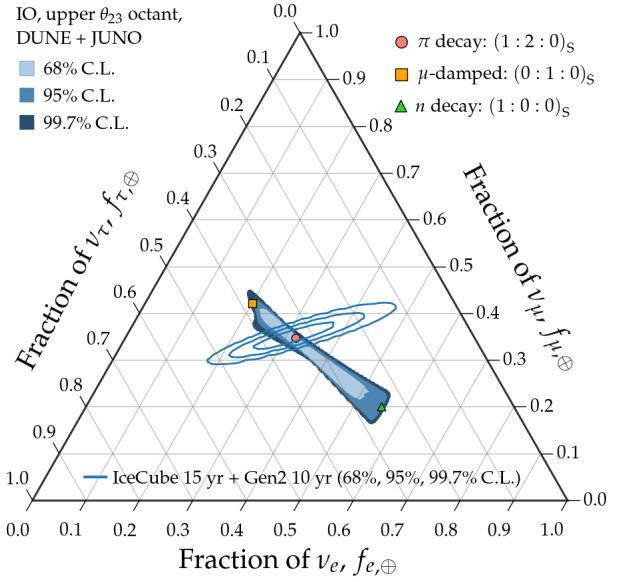
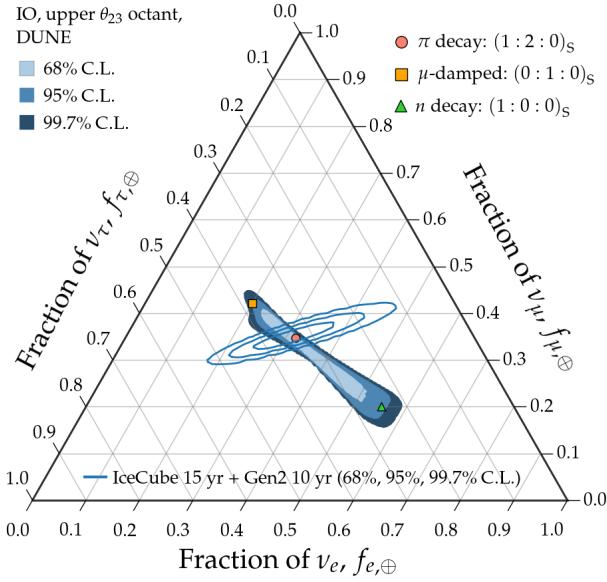
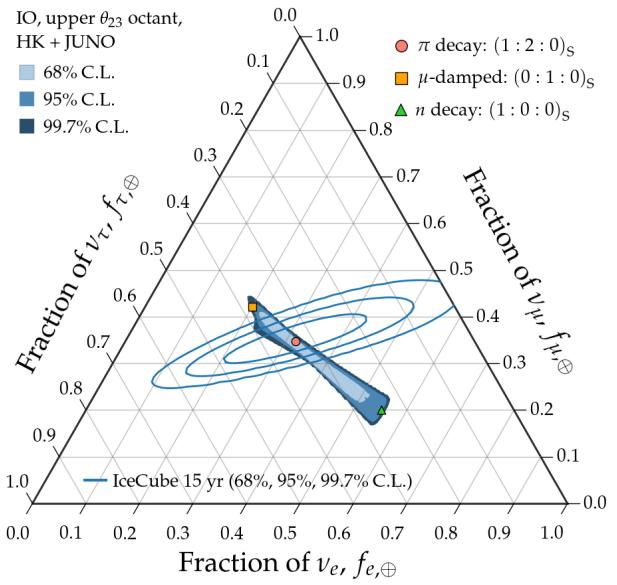
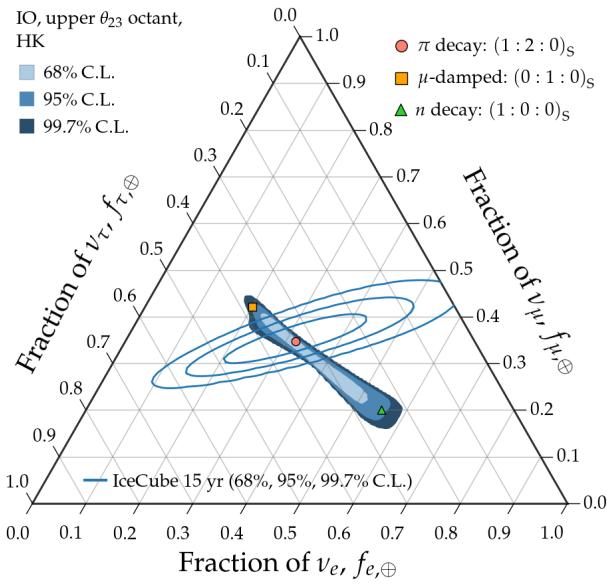
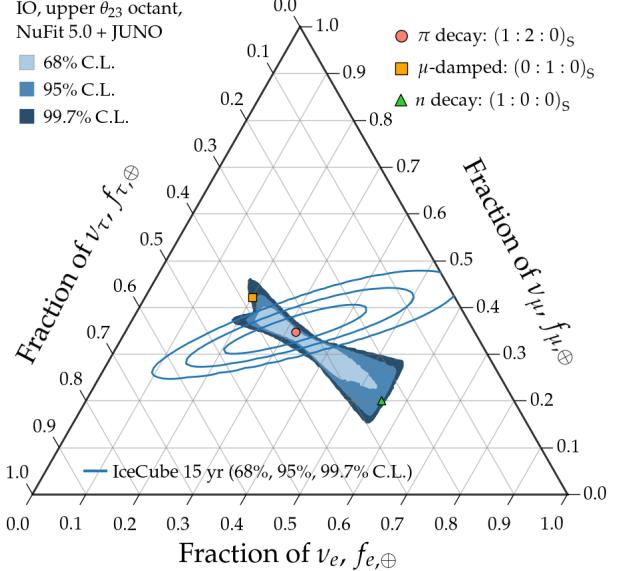
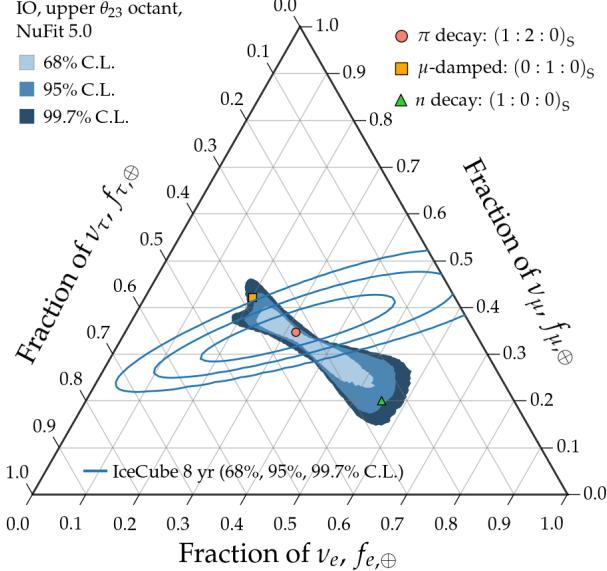


FIG. 4. Standard oscillation regions, varying over all flavor compositions $f_{\alpha,S}$ at the source: inverted ordering (IO), upper θ_{23} octant.

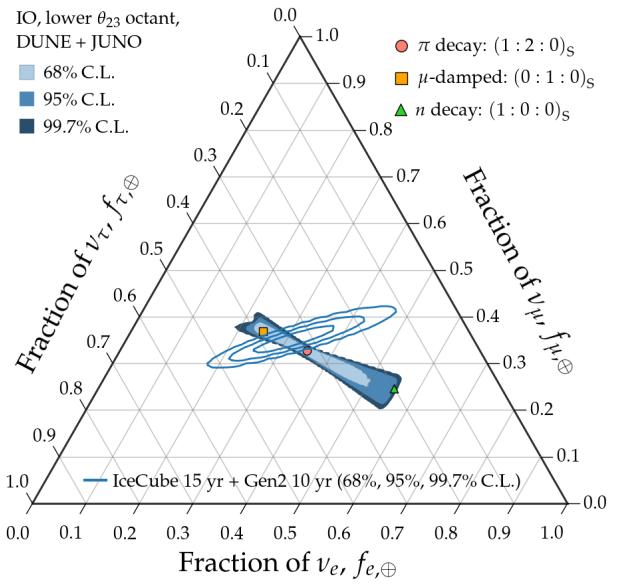
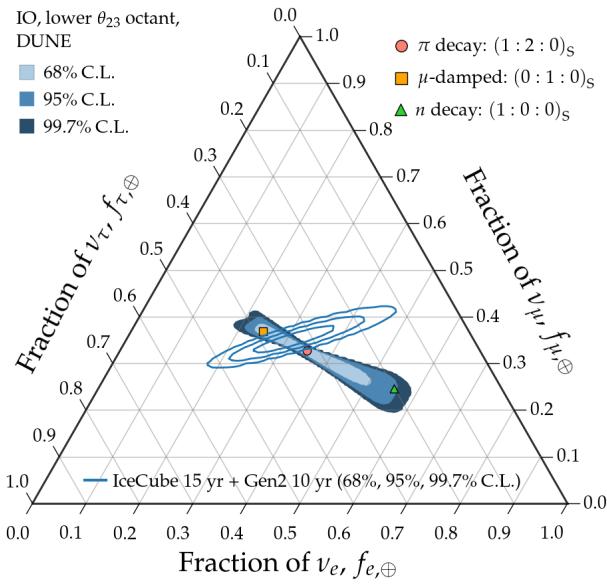
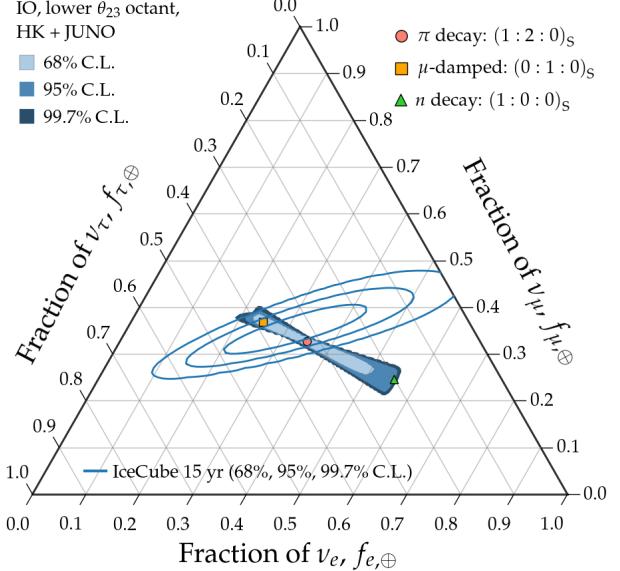
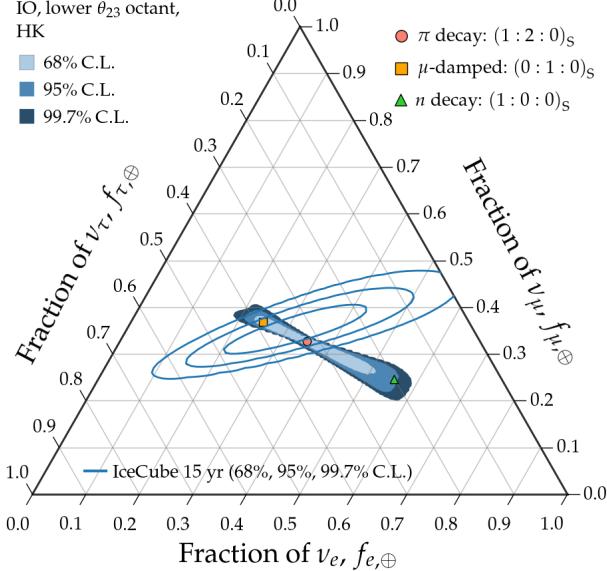


FIG. 5. Standard oscillation regions, varying over all flavor compositions $f_{\alpha,S}$ at the source: normal ordering (NO), lower θ_{23} octant.

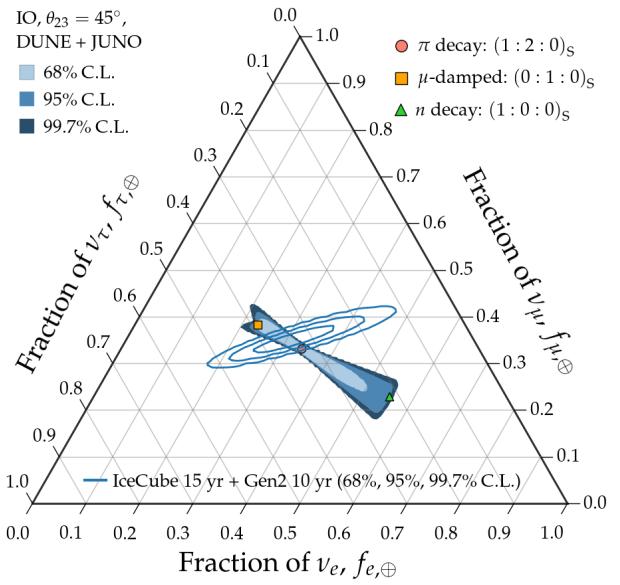
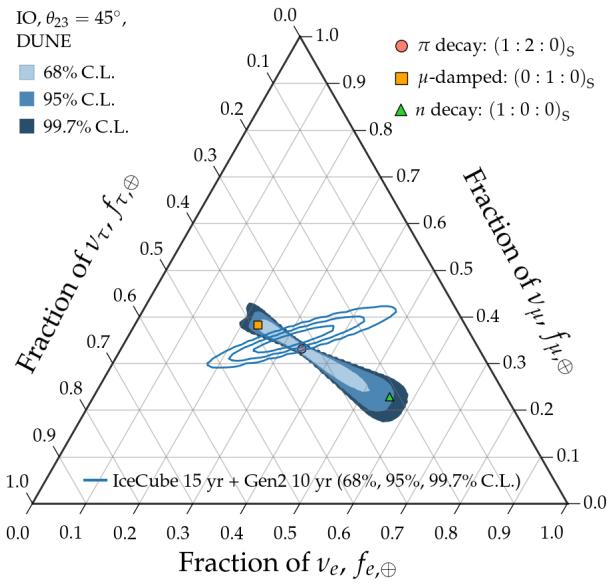
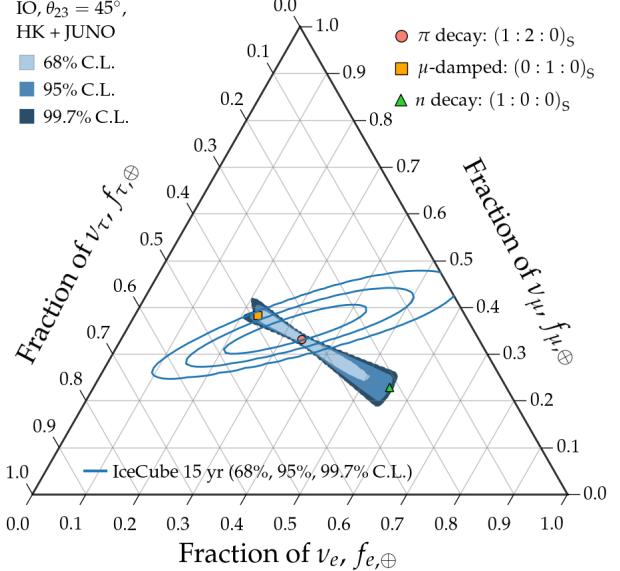
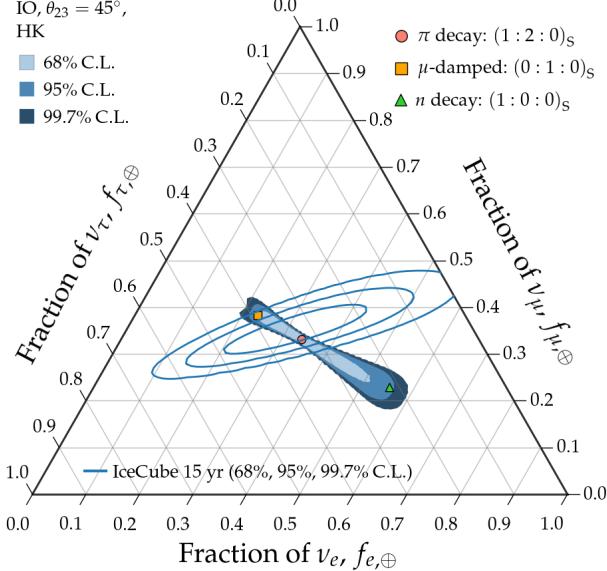


FIG. 6. Standard oscillation regions, varying over all flavor compositions $f_{\alpha,S}$ at the source: normal ordering (NO), $\theta_{23} = 45^\circ$.

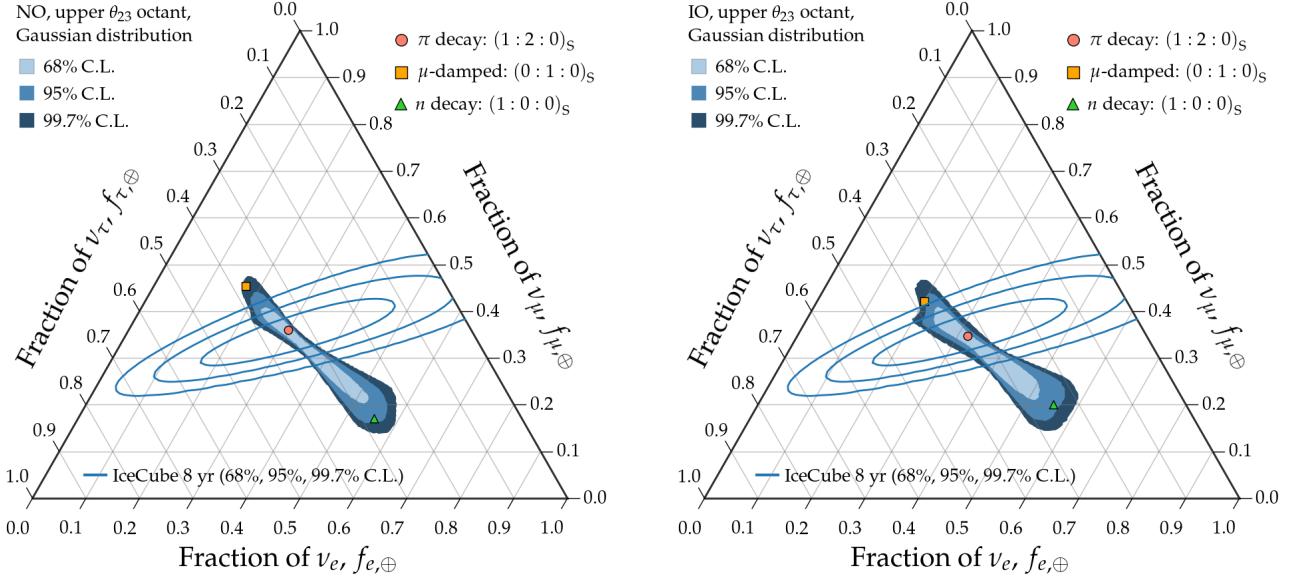


FIG. 7. Standard oscillation regions, varying over all flavor compositions $f_{\alpha,S}$ at the source, assuming Gaussian distributions for the mixing parameters, centered at their present-day best-fit values.

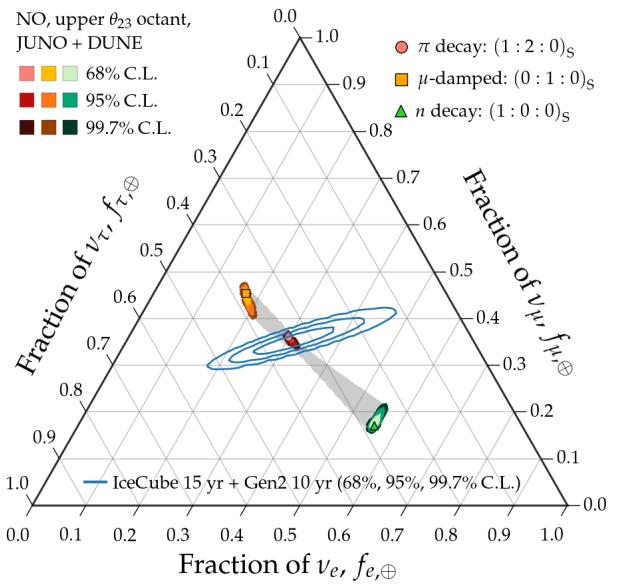
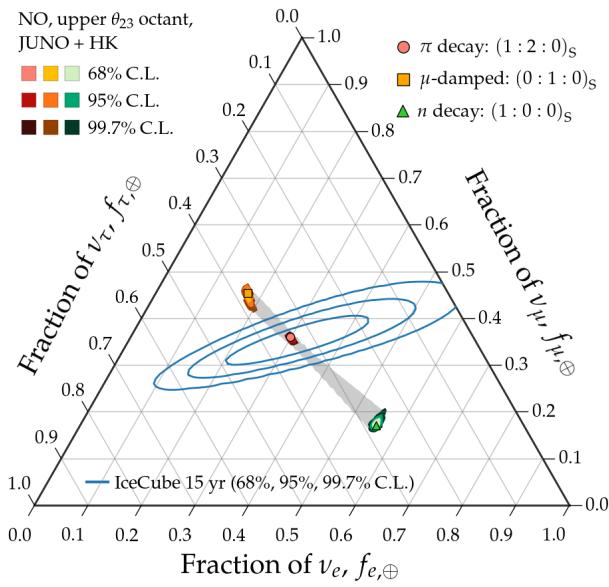
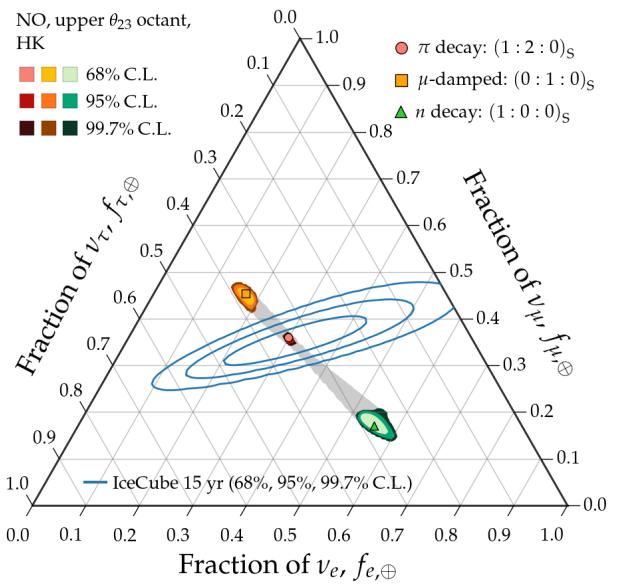
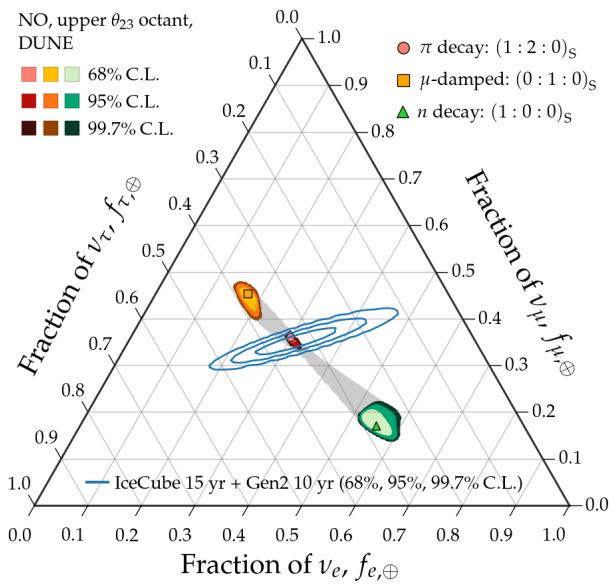
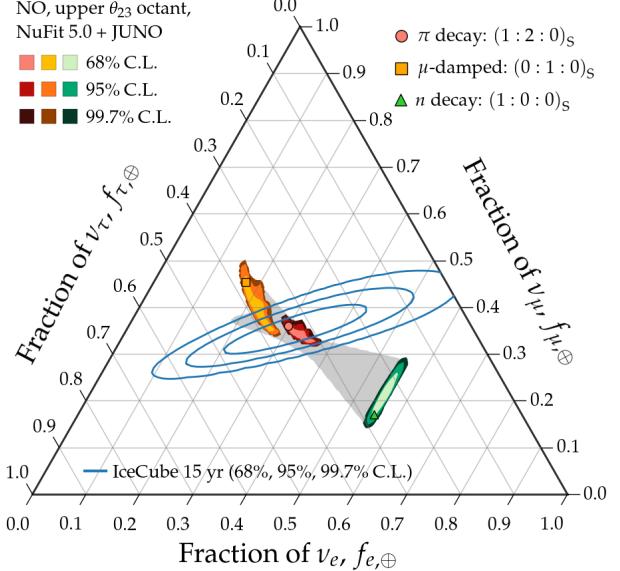
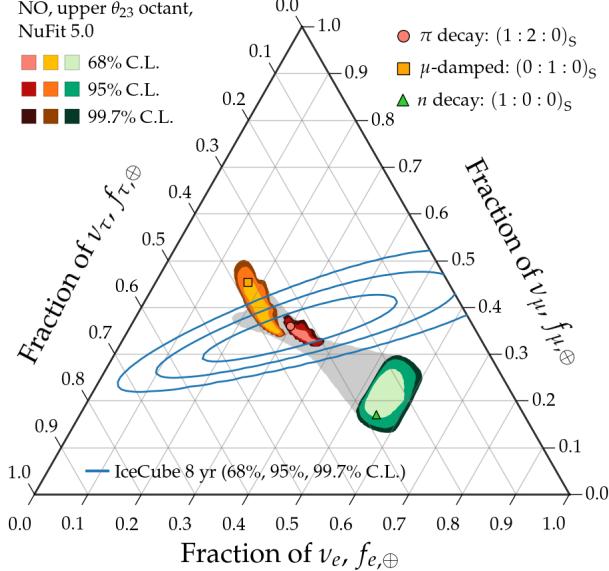


FIG. 8. Standard oscillation regions, for benchmark flavor compositions $f_{\alpha,S}$ at the source: normal ordering (NO), upper θ_{23} octant.

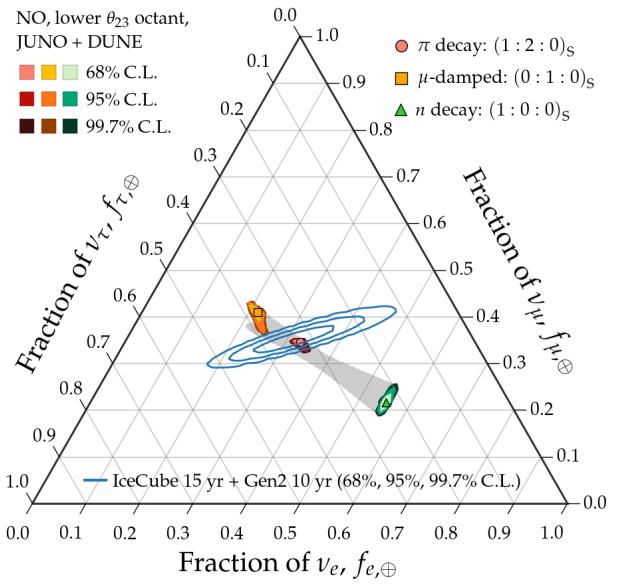
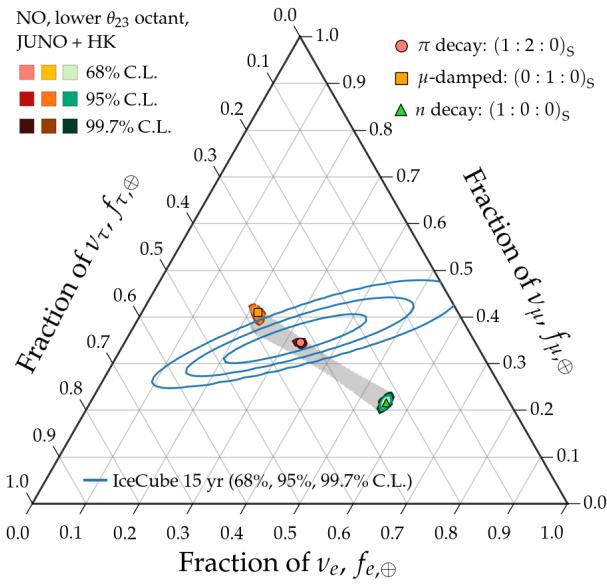
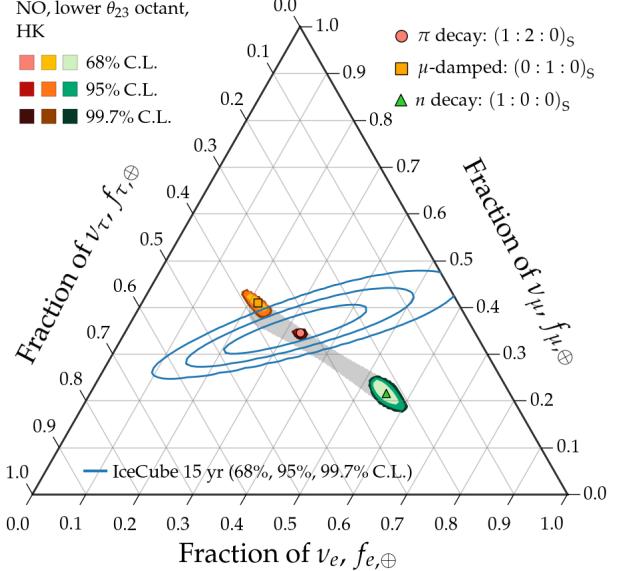
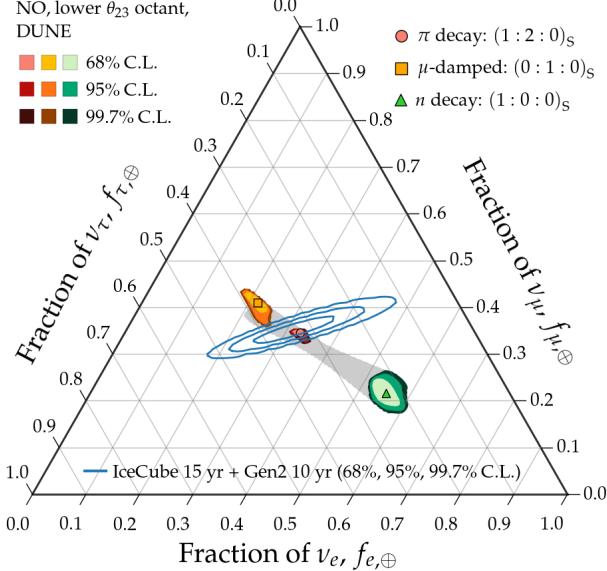


FIG. 9. Standard oscillation regions, for benchmark flavor compositions $f_{\alpha,S}$ at the source: normal ordering (NO), lower θ_{23} octant.

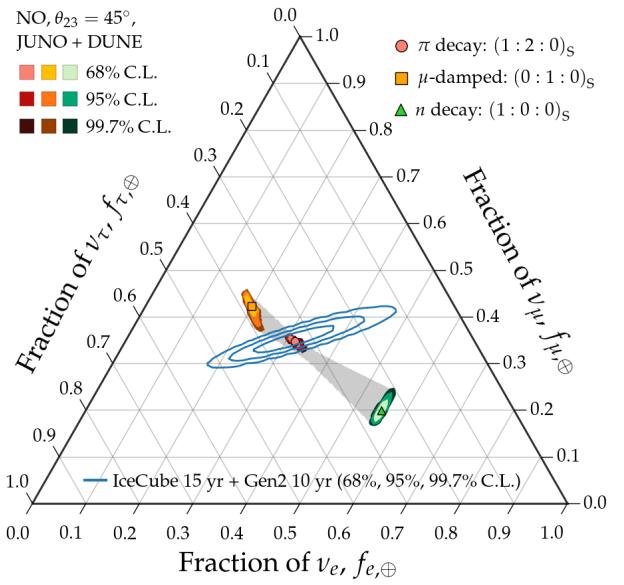
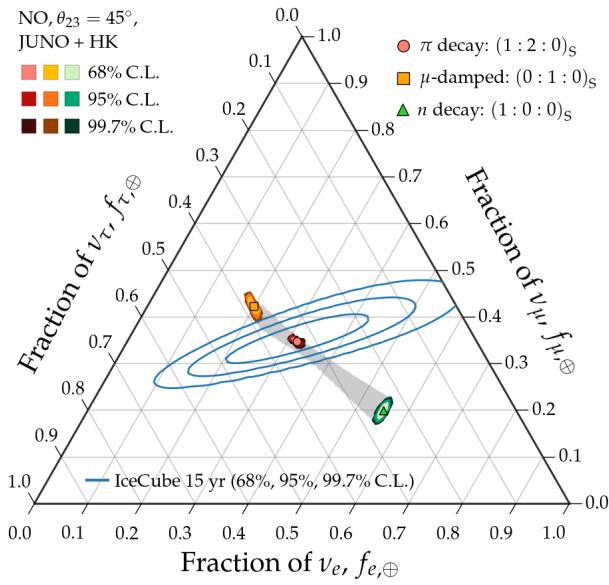
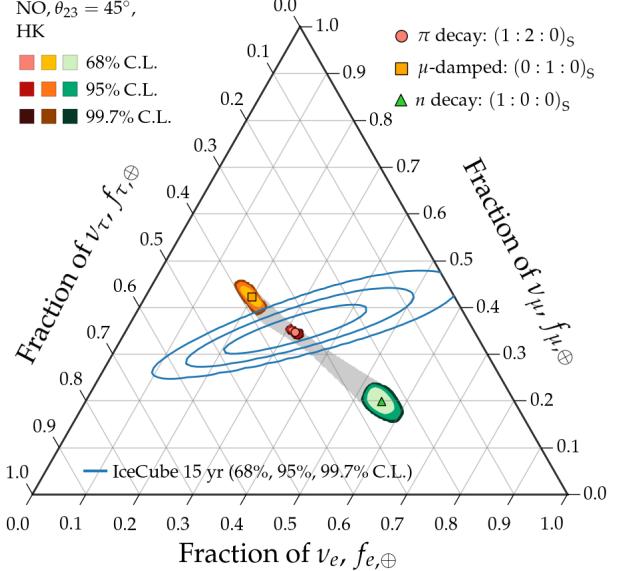
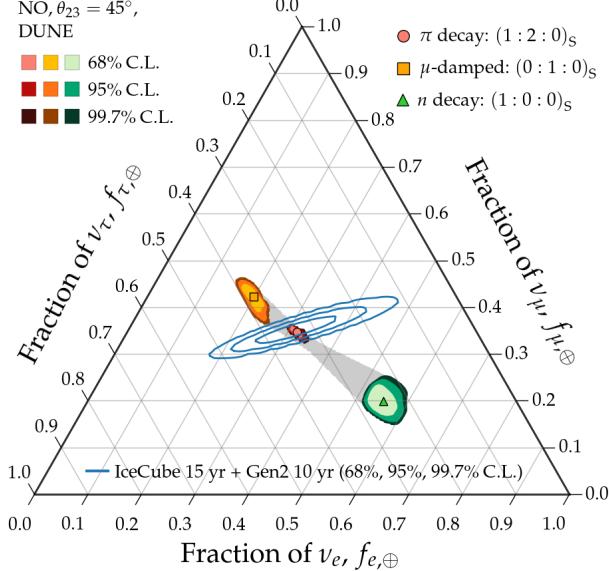


FIG. 10. Standard oscillation regions, for benchmark flavor compositions $f_{\alpha,S}$ at the source: normal ordering (NO), $\theta_{23} = 45^\circ$.

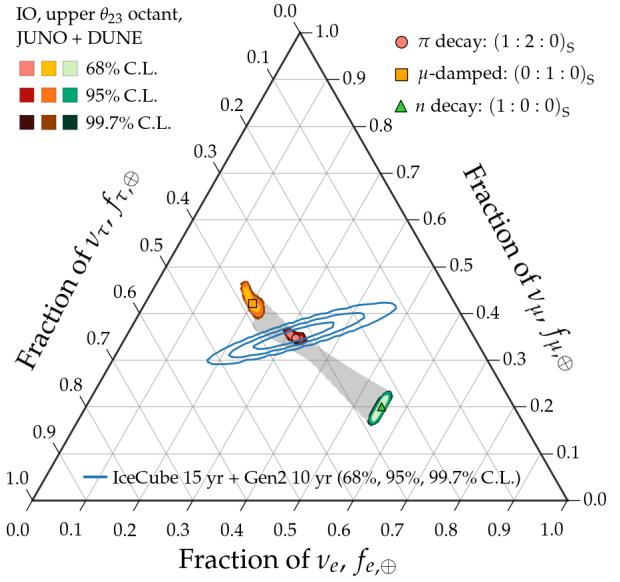
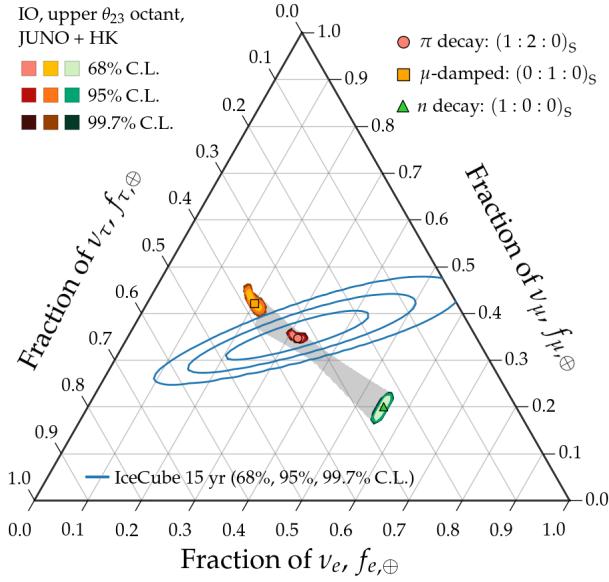
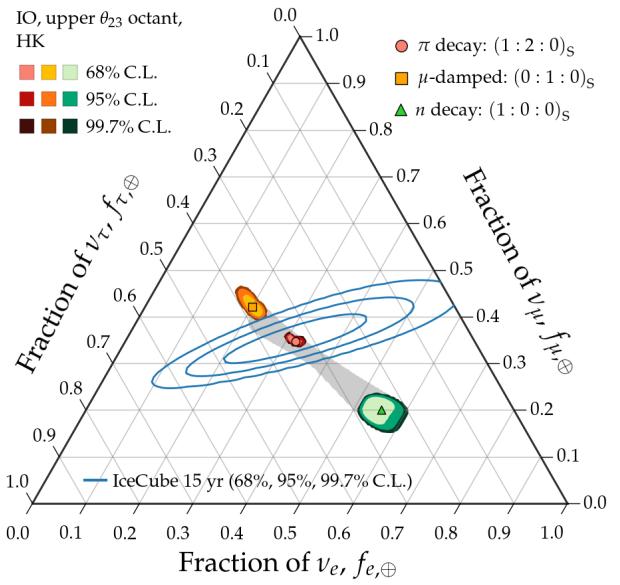
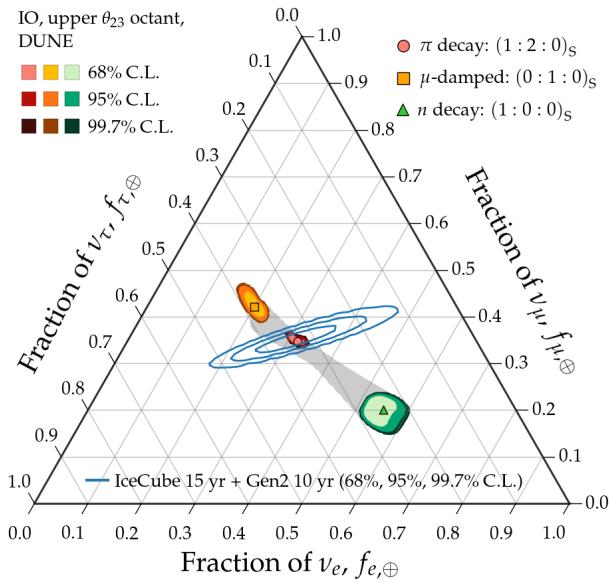
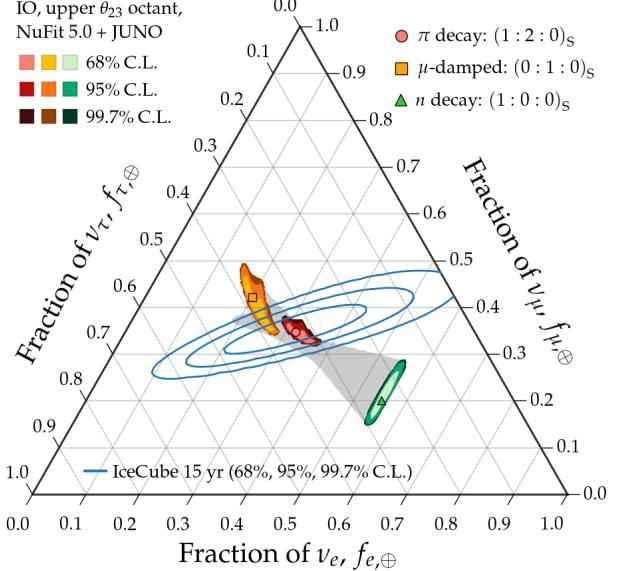
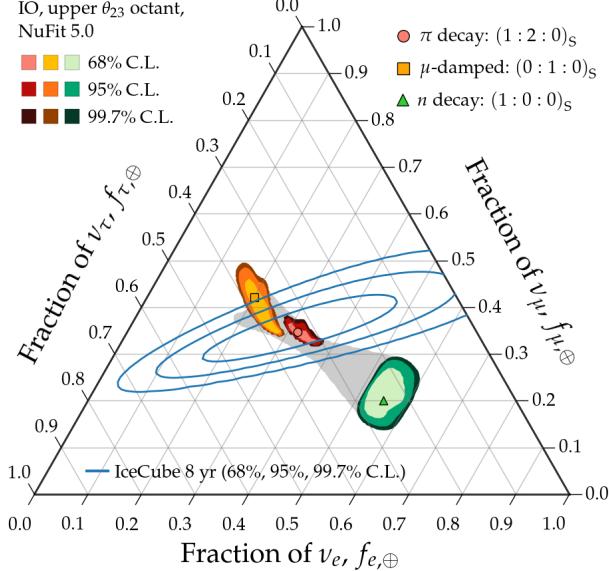


FIG. 11. Standard oscillation regions, for benchmark flavor compositions $f_{\alpha,S}$ at the source: inverted ordering (IO), upper θ_{23} octant.

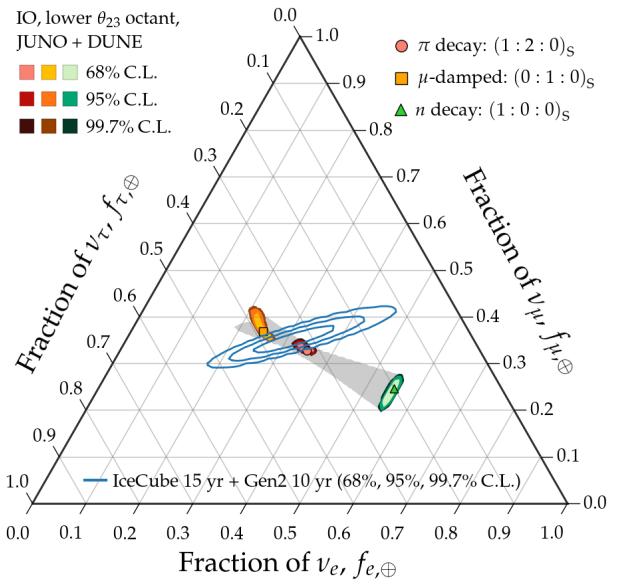
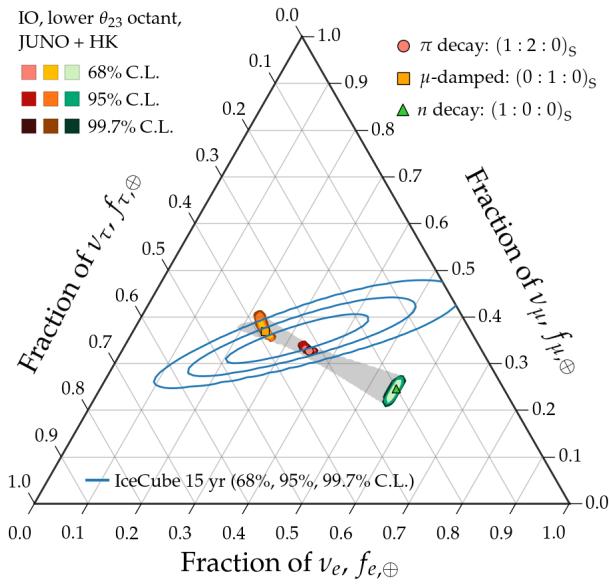
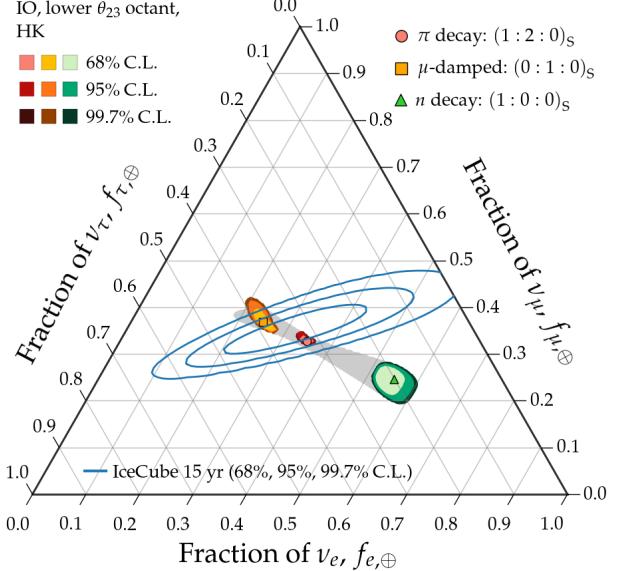
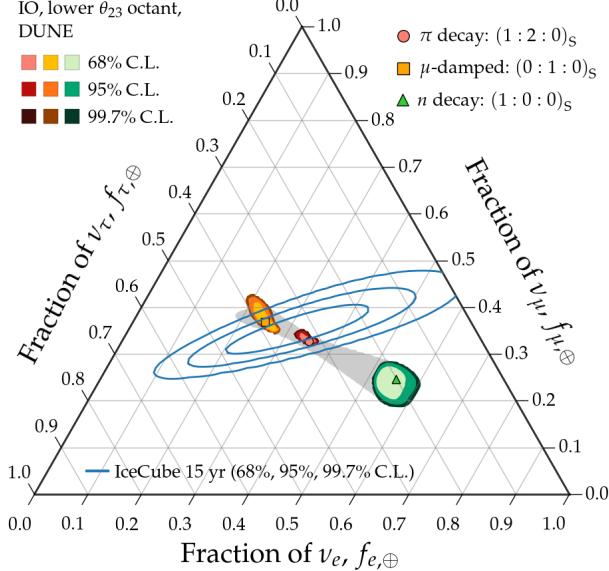


FIG. 12. Standard oscillation regions, for benchmark flavor compositions $f_{\alpha,S}$ at the source: inverted ordering (IO), lower θ_{23} octant.

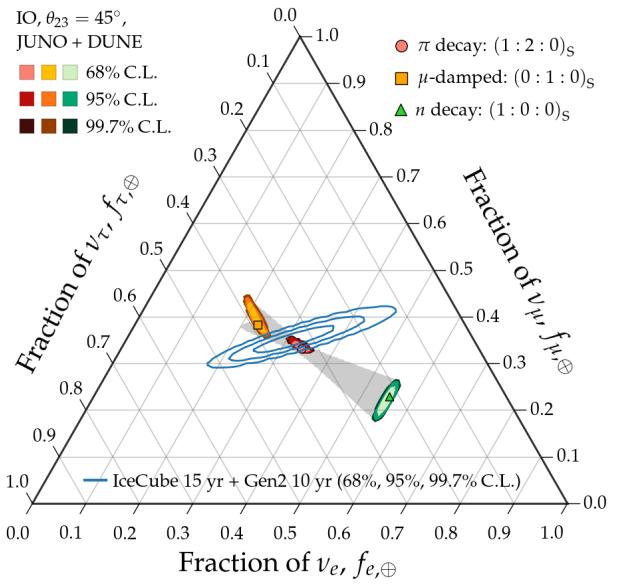
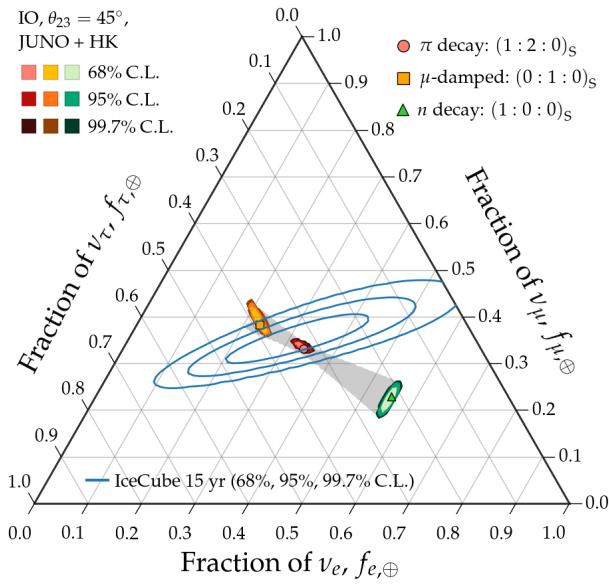
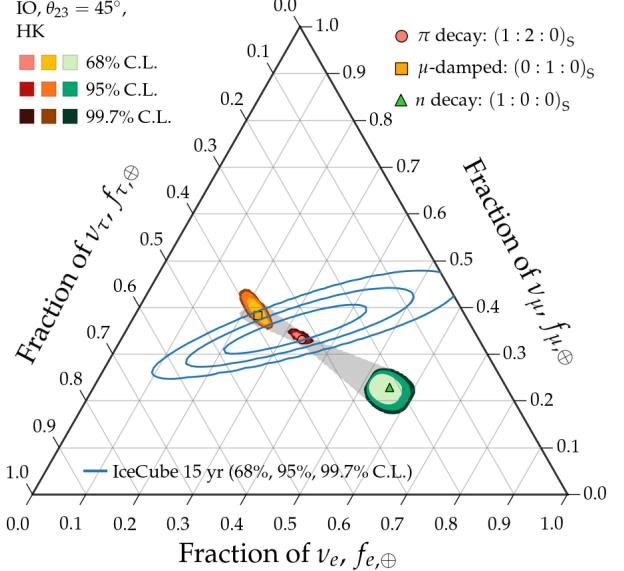
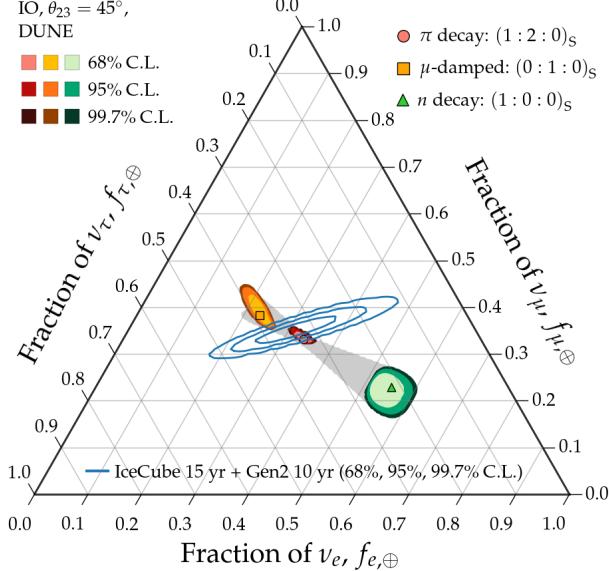


FIG. 13. Standard oscillation regions, for benchmark flavor compositions $f_{\alpha,S}$ at the source: inverted ordering (IO), $\theta_{23} = 45^\circ$.

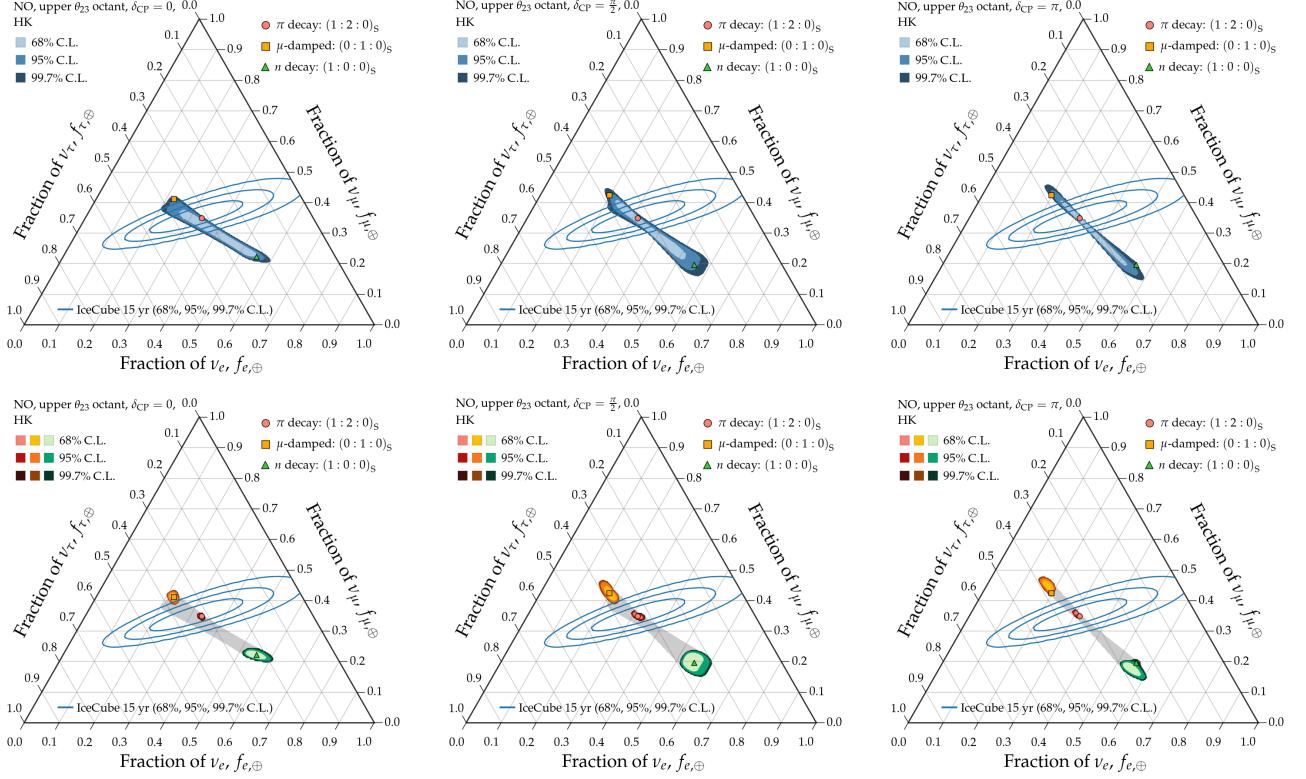


FIG. 14. Standard oscillation regions for normal ordering (NO), upper θ_{23} octant, and fixed values of $\delta_{CP} = 0$ (left), $\pi/2$ (center), π (right), using HK projections. *Top:* Varying over all flavor compositions $f_{\alpha,S}$ at the source. *Bottom:* For benchmark compositions.

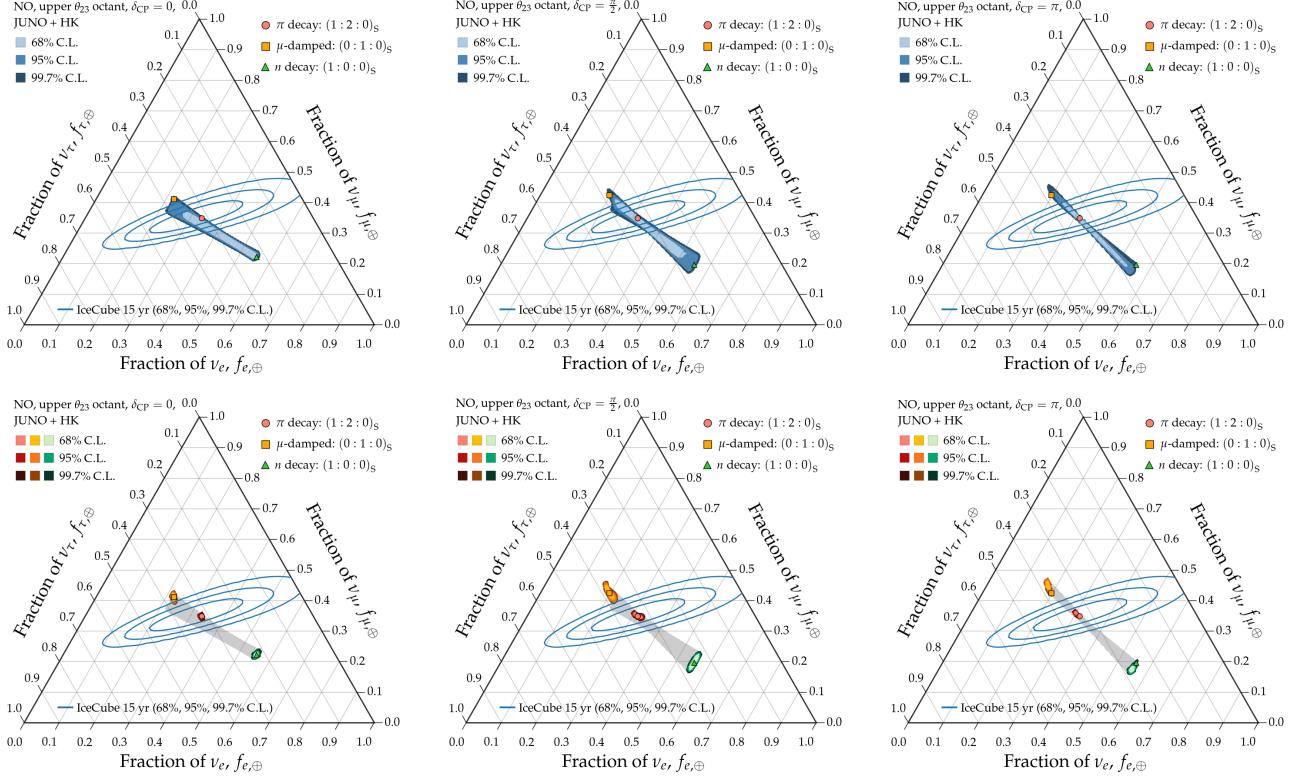


FIG. 15. Standard oscillation regions for normal ordering (NO), upper θ_{23} octant, and fixed values of $\delta_{CP} = 0$ (left), $\pi/2$ (center), π (right), using **HK** + **JUNO** projections. *Top:* Varying over all flavor compositions $f_{\alpha,S}$ at the source. *Bottom:* For benchmark compositions.

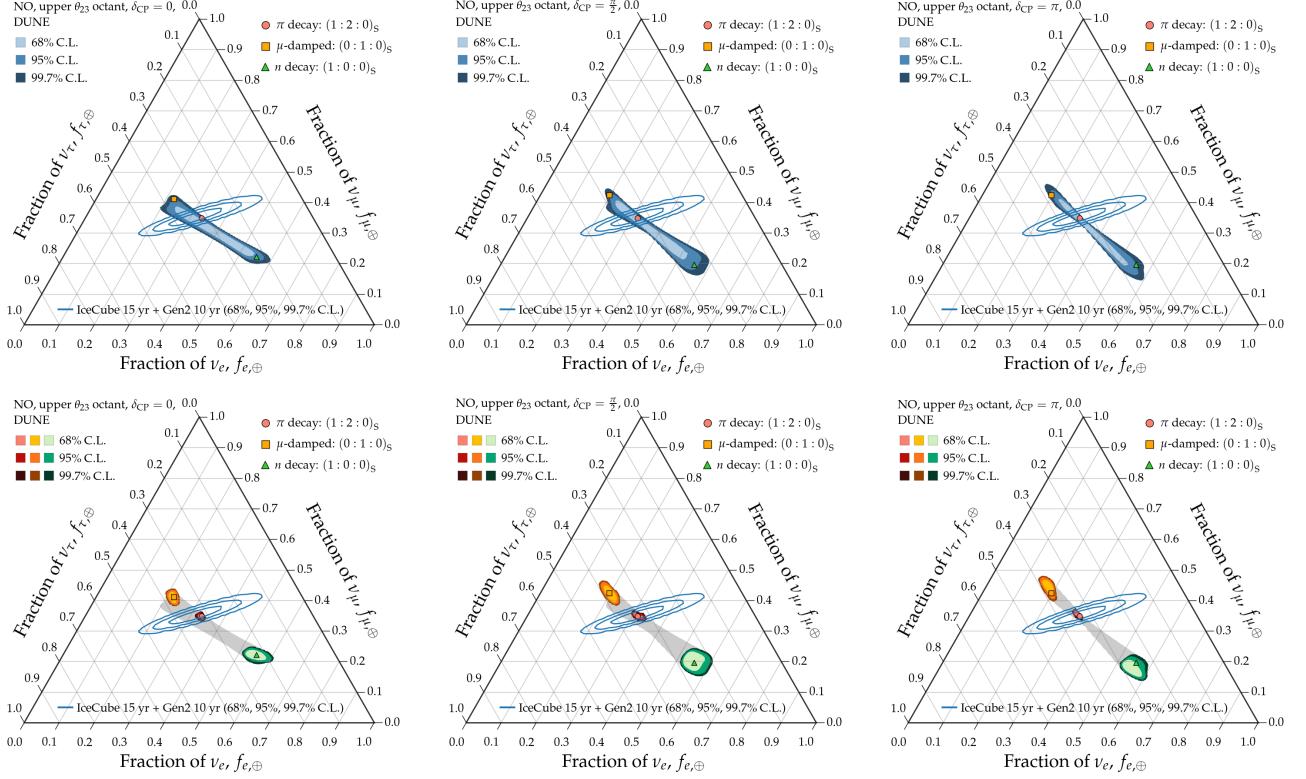


FIG. 16. Standard oscillation regions for normal ordering (NO), upper θ_{23} octant, and fixed values of $\delta_{CP} = 0$ (left), $\pi/2$ (center), π (right), using DUNE projections. Top: Varying over all flavor compositions $f_{\alpha,S}$ at the source. Bottom: For benchmark compositions.

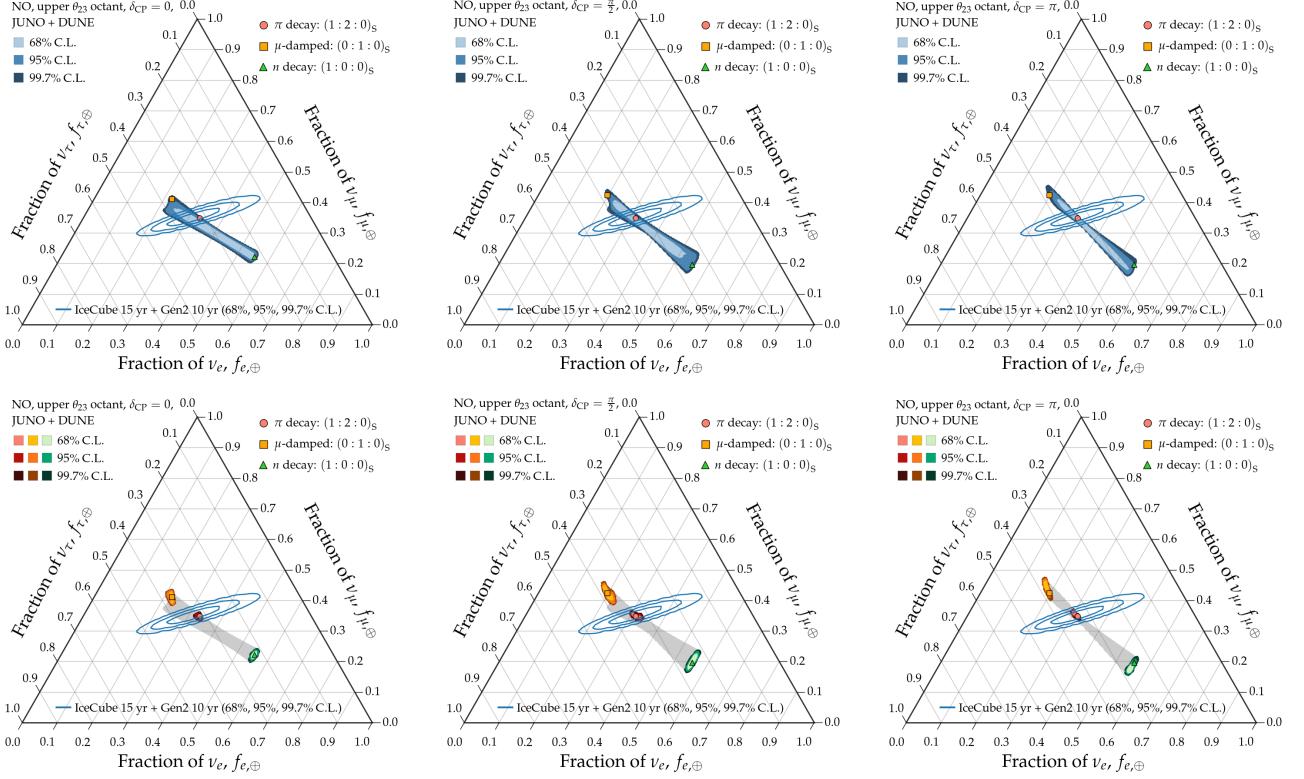


FIG. 17. Standard oscillation regions for normal ordering (NO), upper θ_{23} octant, and fixed values of $\delta_{\text{CP}} = 0$ (left), $\pi/2$ (center), π (right), using **DUNE + JUNO** projections. *Top:* Varying over all flavor compositions $f_{\alpha,S}$ at the source. *Bottom:* For benchmark compositions.

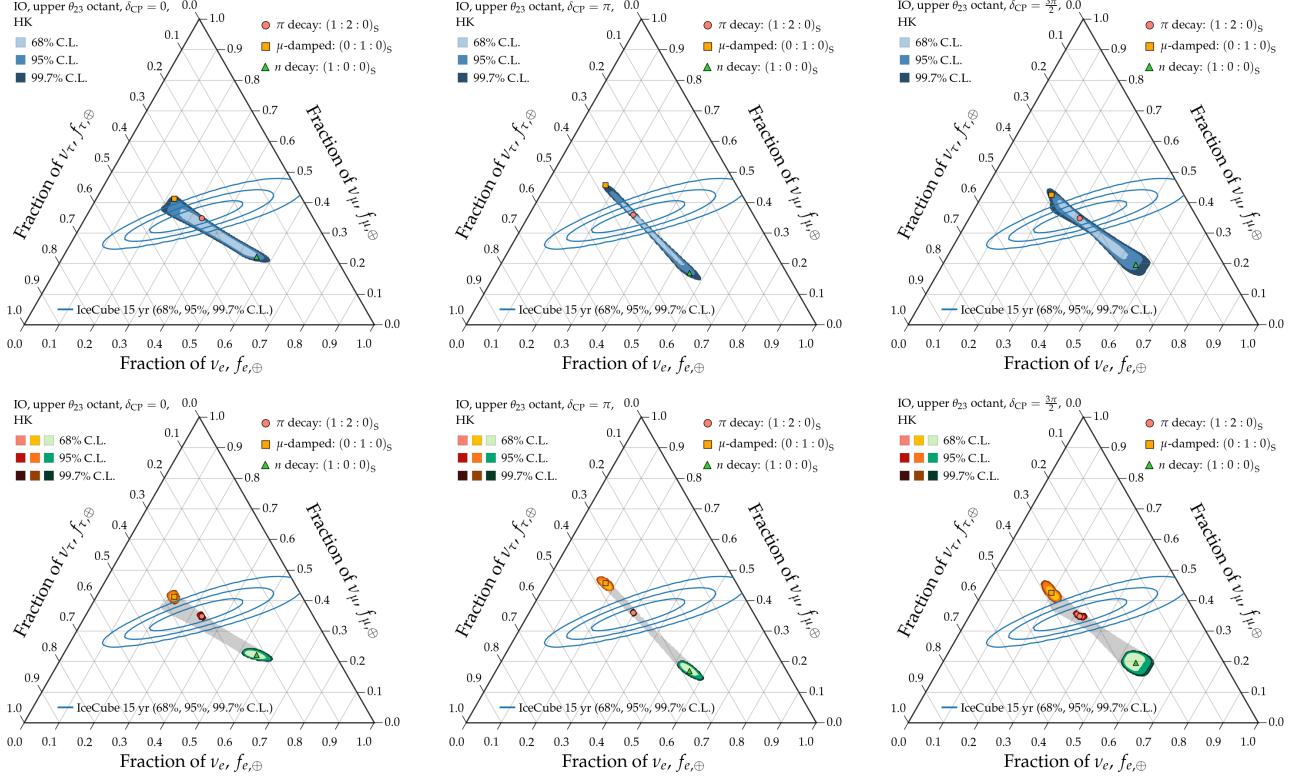
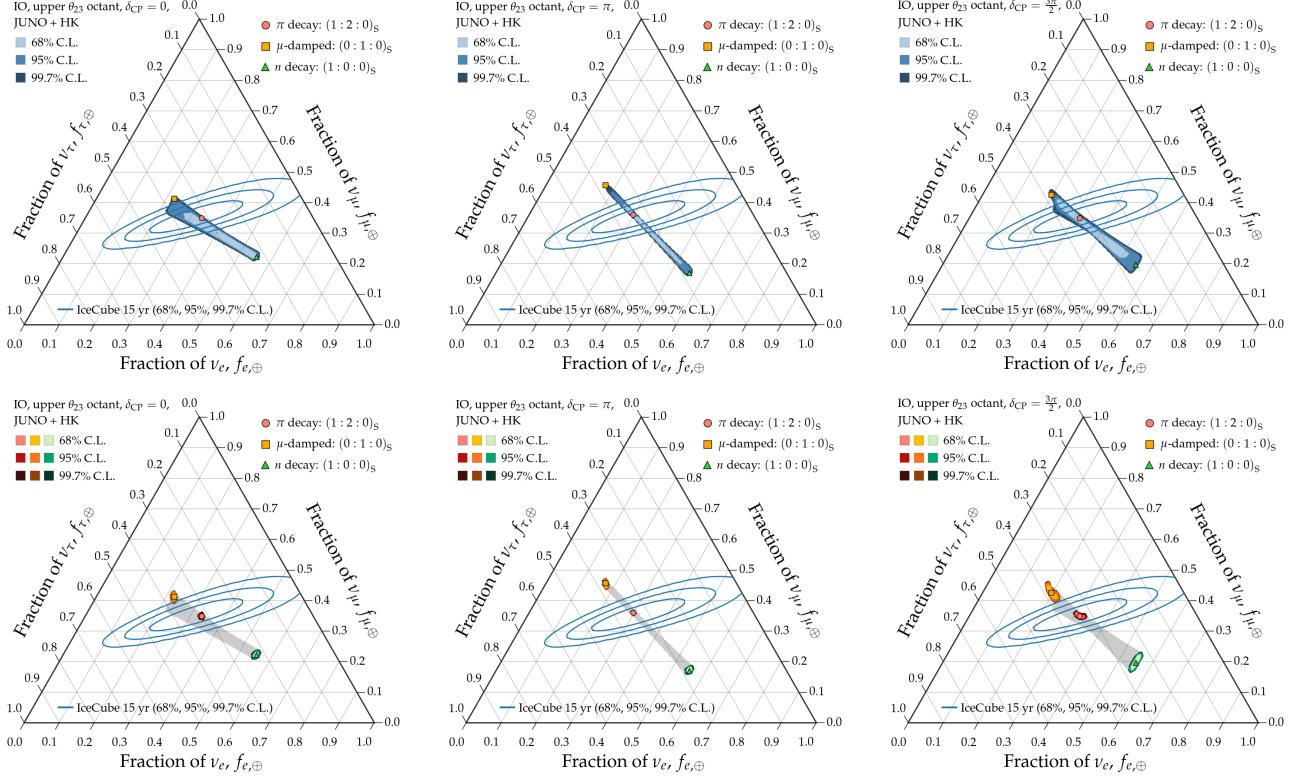


FIG. 18. Standard oscillation regions for normal ordering (NO), upper θ_{23} octant, and fixed values of $\delta_{CP} = 0$ (left), π (center), $3\pi/2$ (right), using HK projections. Top: Varying over all flavor compositions $f_{\alpha,S}$ at the source. Bottom: For benchmark compositions.



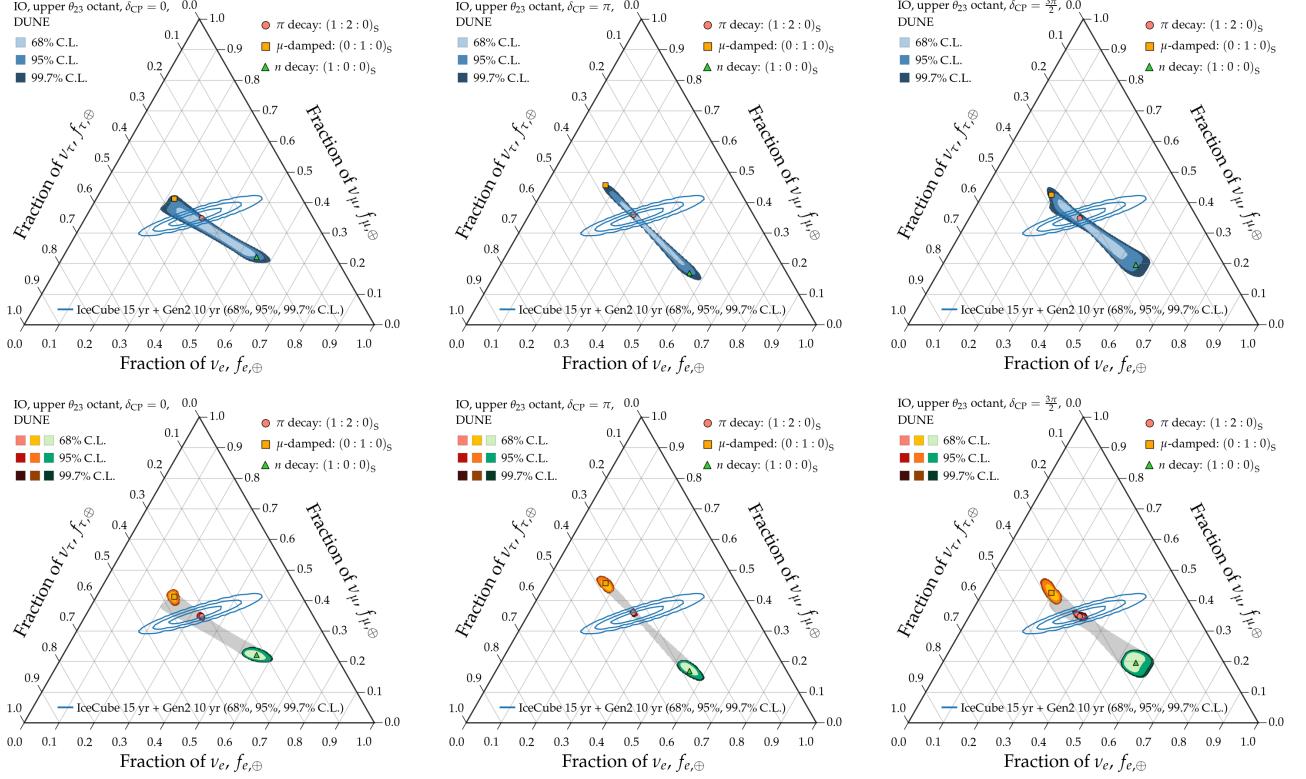
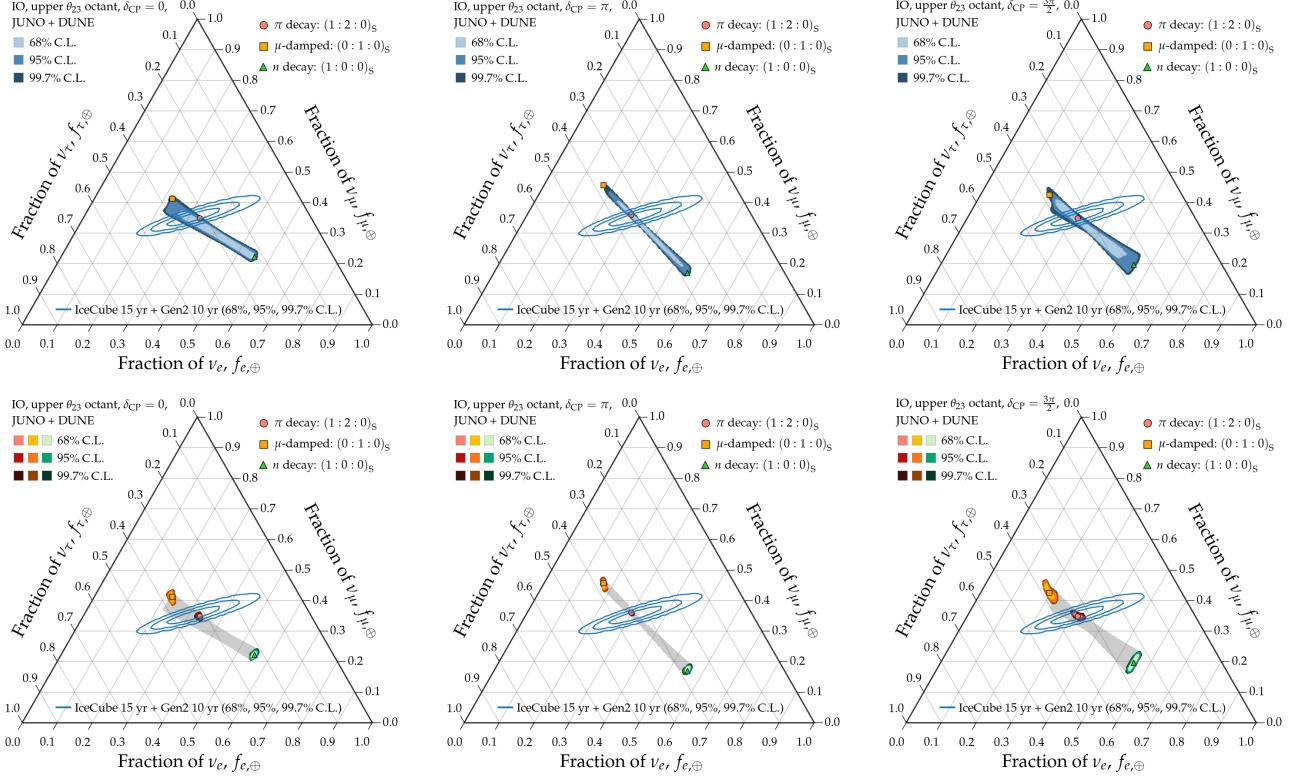


FIG. 20. Standard oscillation regions for inverted ordering (IO), upper θ_{23} octant, and fixed values of $\delta_{CP} = 0$ (left), π (center), $3\pi/2$ (right), using **DUNE** projections. *Top:* Varying over all flavor compositions $f_{\alpha,S}$ at the source. *Bottom:* For benchmark compositions.



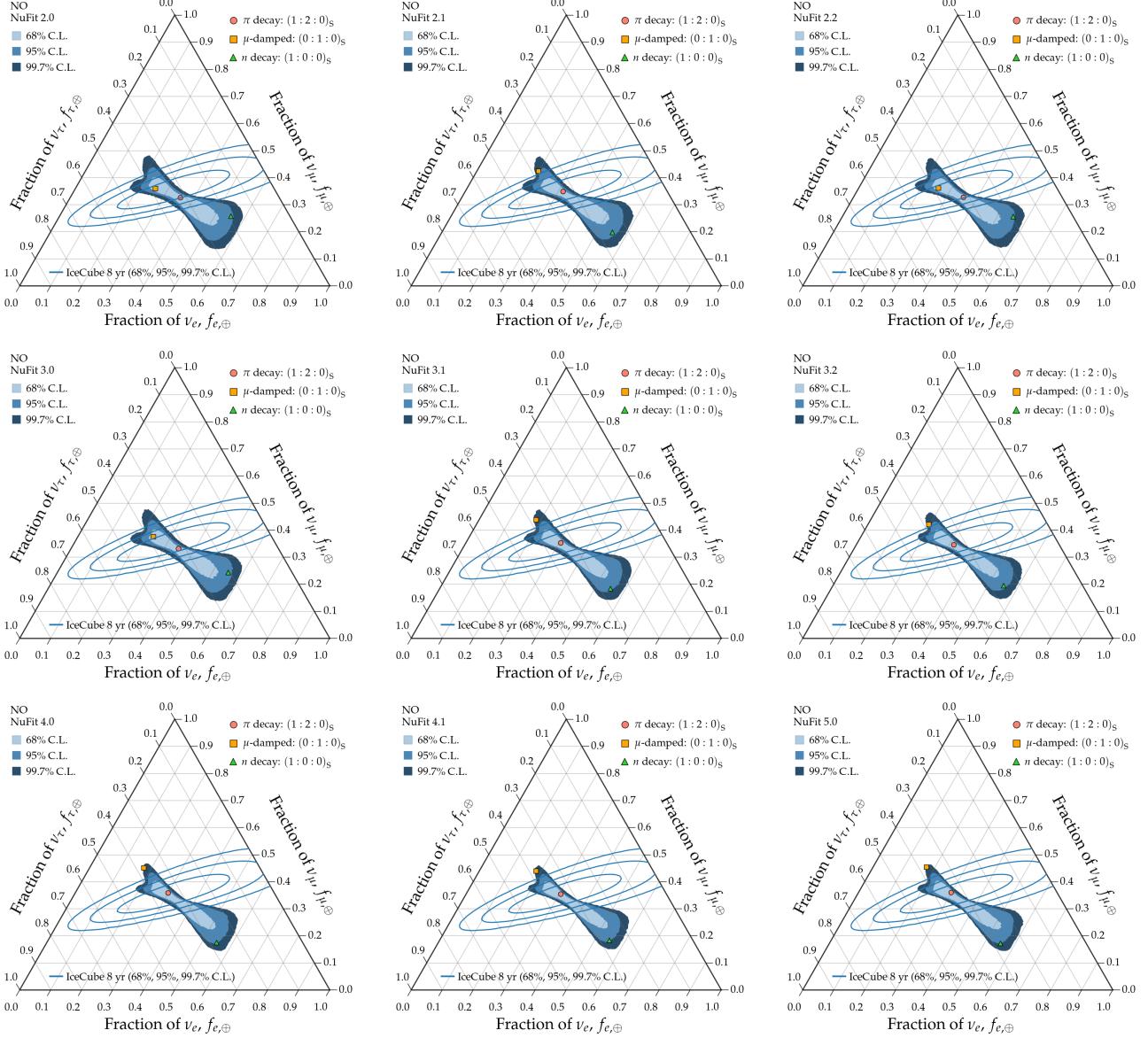


FIG. 22. Standard oscillation regions for normal ordering (NO), varying over all flavor compositions $f_{\alpha,S}$ at the source, for different versions of NuFit.

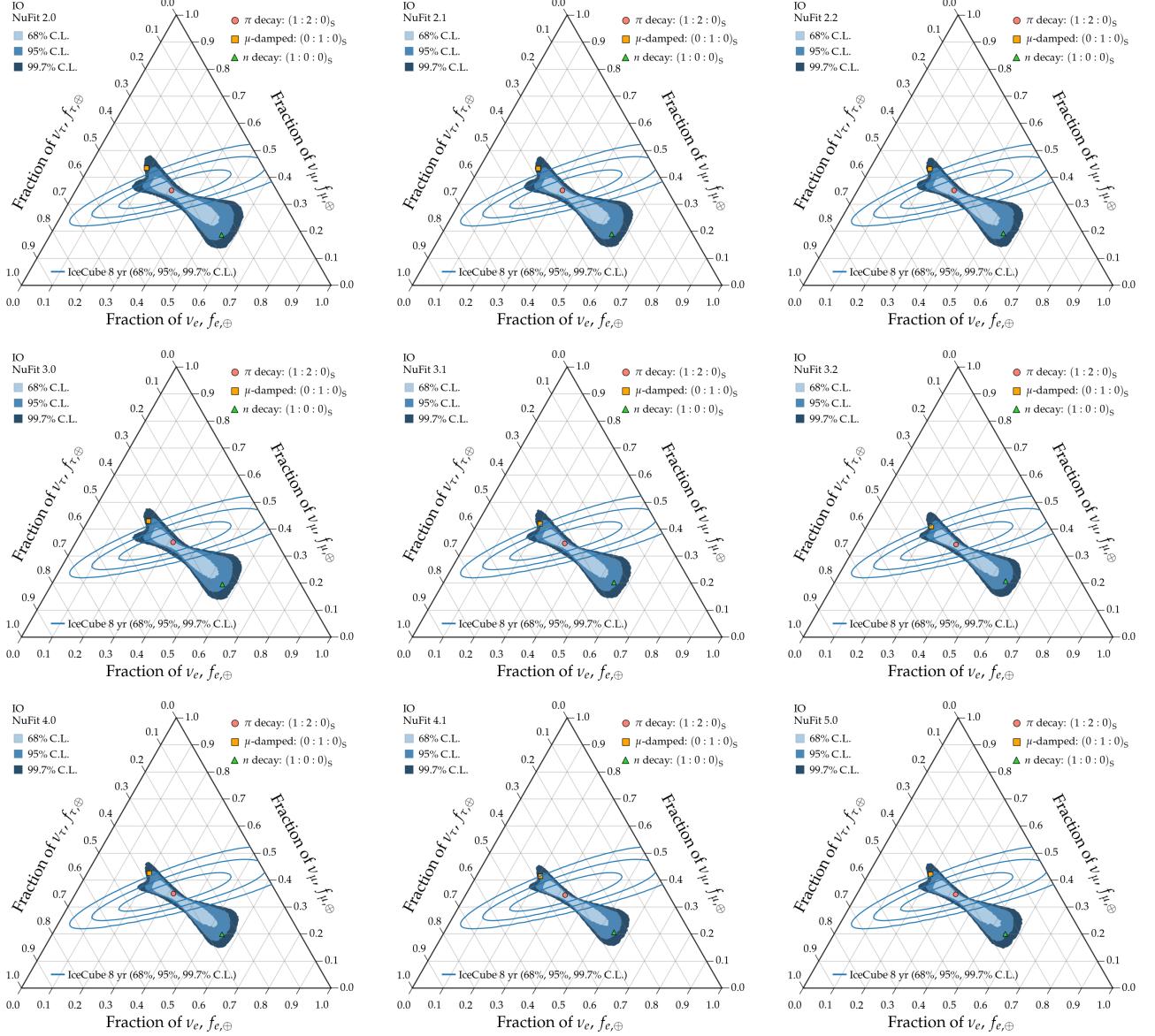


FIG. 23. Standard oscillation regions for inverted ordering (IO), varying over all flavor compositions $f_{\alpha,S}$ at the source, for different versions of NuFit.

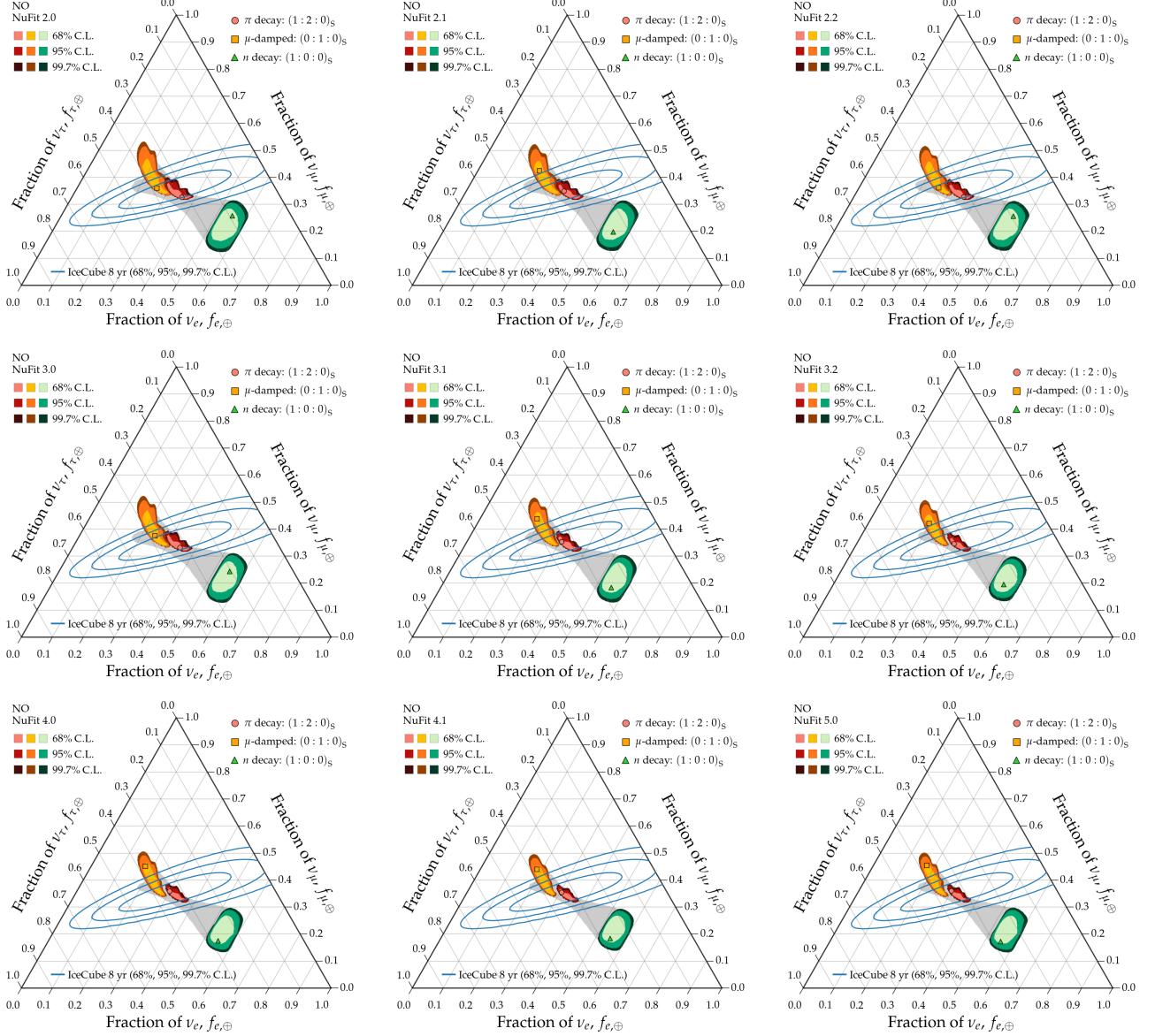


FIG. 24. Standard oscillation regions for normal ordering (NO), for fixed flavor compositions $f_{\alpha,S}$ at the source, for different versions of NuFit.

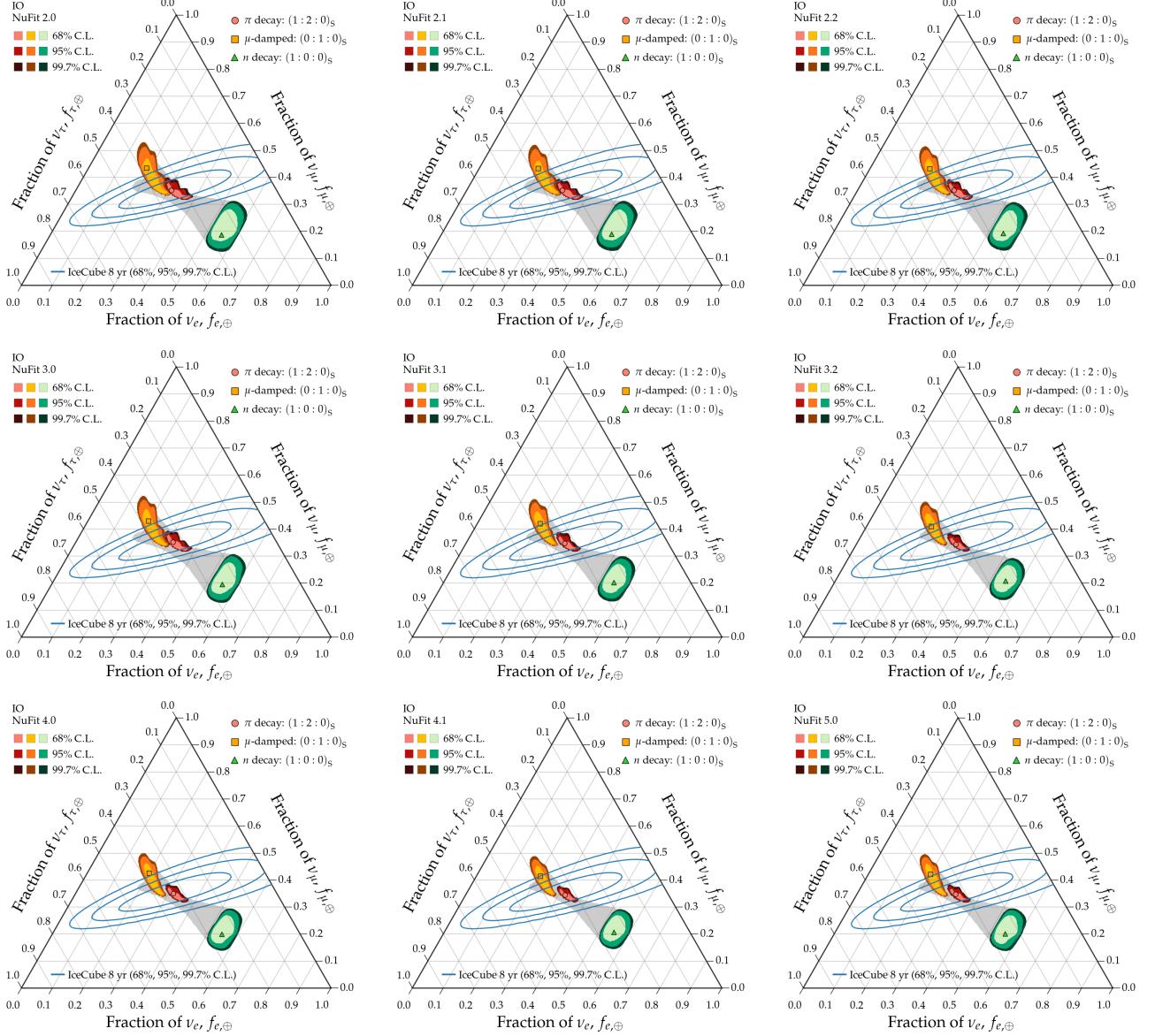


FIG. 25. Standard oscillation regions for inverted ordering (IO), for fixed flavor compositions $f_{\alpha,S}$ at the source, for different versions of NuFit.

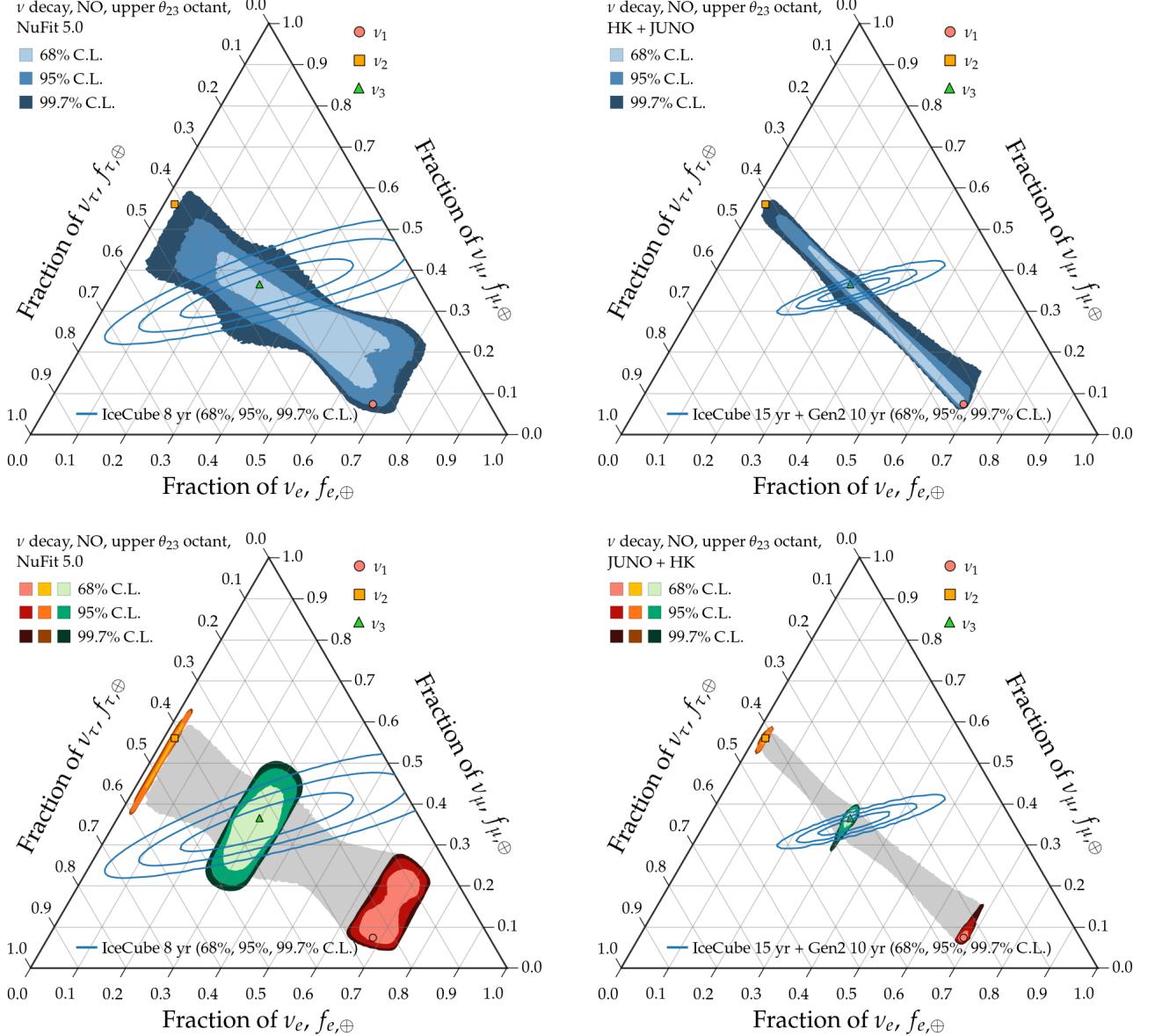


FIG. 26. Regions of flavor composition with neutrino decay for normal ordering (NO).

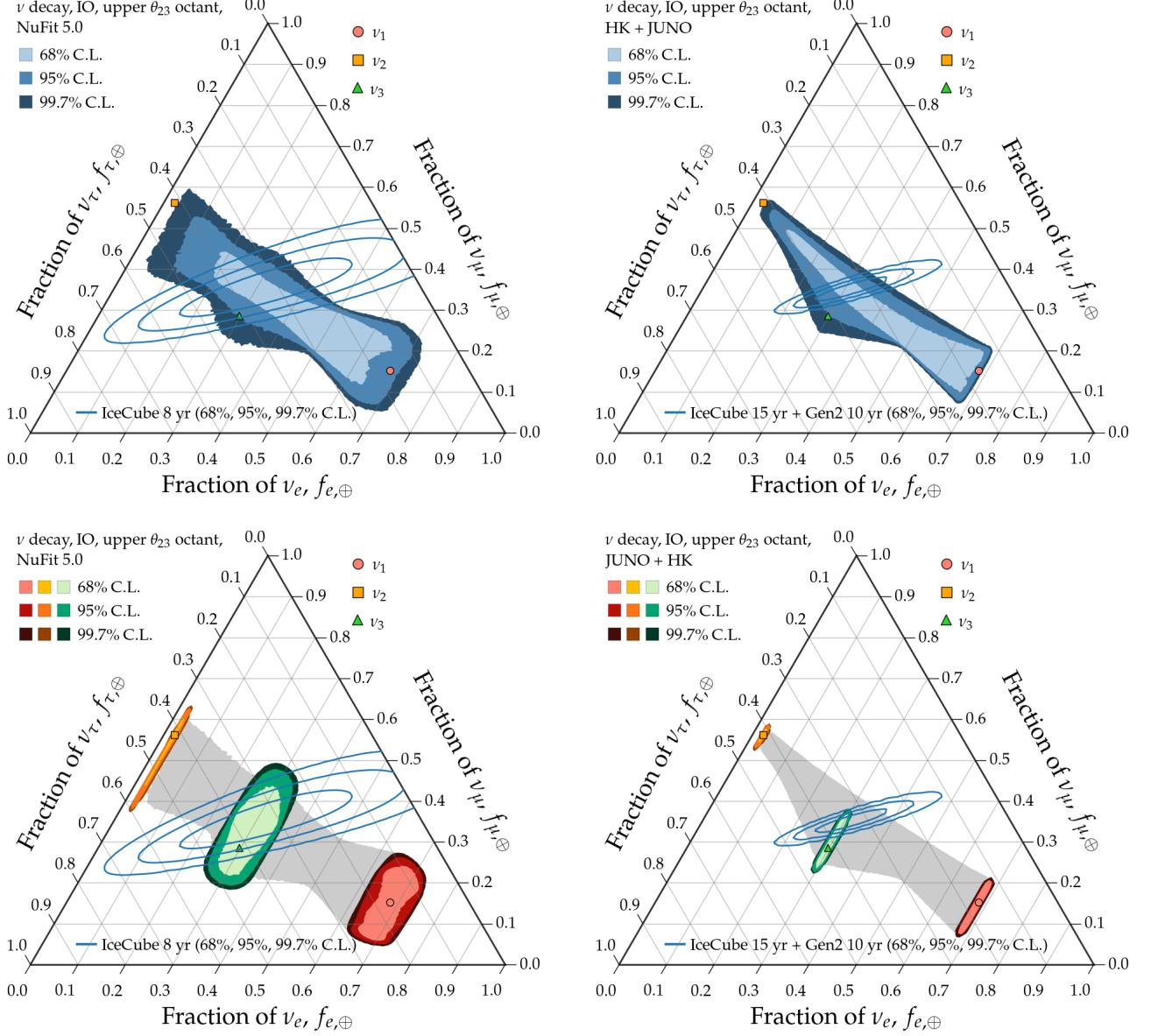


FIG. 27. Regions of flavor composition with neutrino decay for inverted ordering (IO).

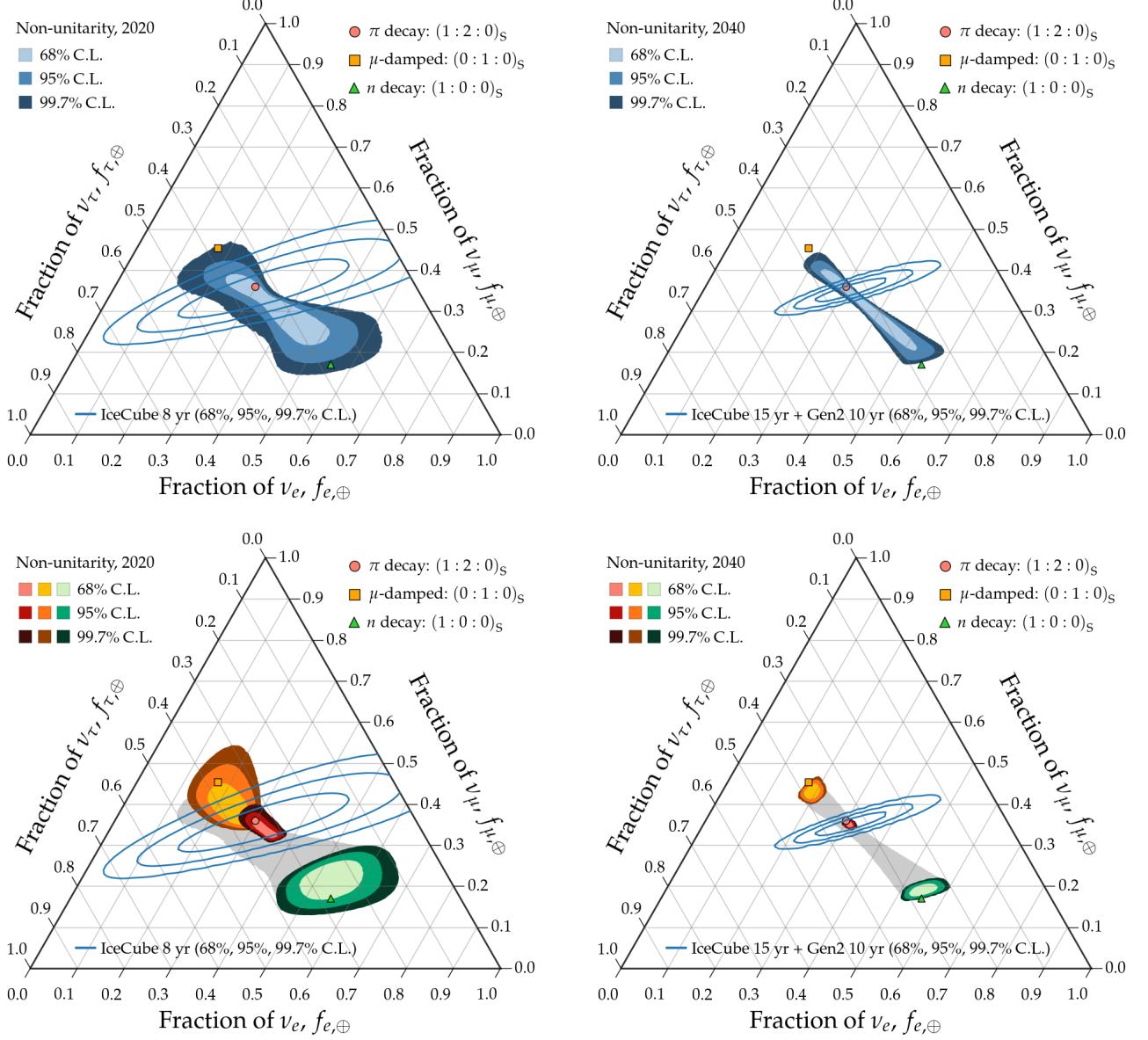


FIG. 28. Regions of flavor composition obtained under non-unitary mixing.