Cumulative Cuts on  $m_{h2}$  against  $\Delta m_3$ , scaled by  $\Omega h_2$ + Theory Constraints + LEP + DM Direct Detection + CMB  $10^3$  $10^{-1}$ g 10<sup>2</sup>  $-10^{-2}$  $10^{1}$  $\frac{1}{10^{-3}}$  $+ Br(H \rightarrow inv) < 0.145$ + LZ 2024 + EWPT + Relic Density 10<sup>3</sup> E 10<sup>2</sup>  $10^{-4}$  $10^1$  $10^{-4}$  $10^{-4}$  $10^{0}$  $10^{-4}$  $10^{0}$  $10^{-4}$  $10^{0}$ 100  $\Delta m_3$  $\Delta m_3$  $\Delta m_3$  $\Delta m_3$