Summary plots 1

February 21, 2022

List of Figures

Plots with constraints

- Small regions (following previous paper) around

$$\delta a_\mu = (2.5 \pm 0.6) \times 10^{-9}, \qquad \delta a_e = (-8.7 \pm 3.6) \times 10^{-13},$$

- two different perturbativity requirements (dark and light blue regions, respectively)

$$|\mathrm{Re}(n_\ell)| < 100\,\mathrm{GeV} \text{ or } |\mathrm{Re}(n_\ell)| < 250\,\mathrm{GeV}.$$

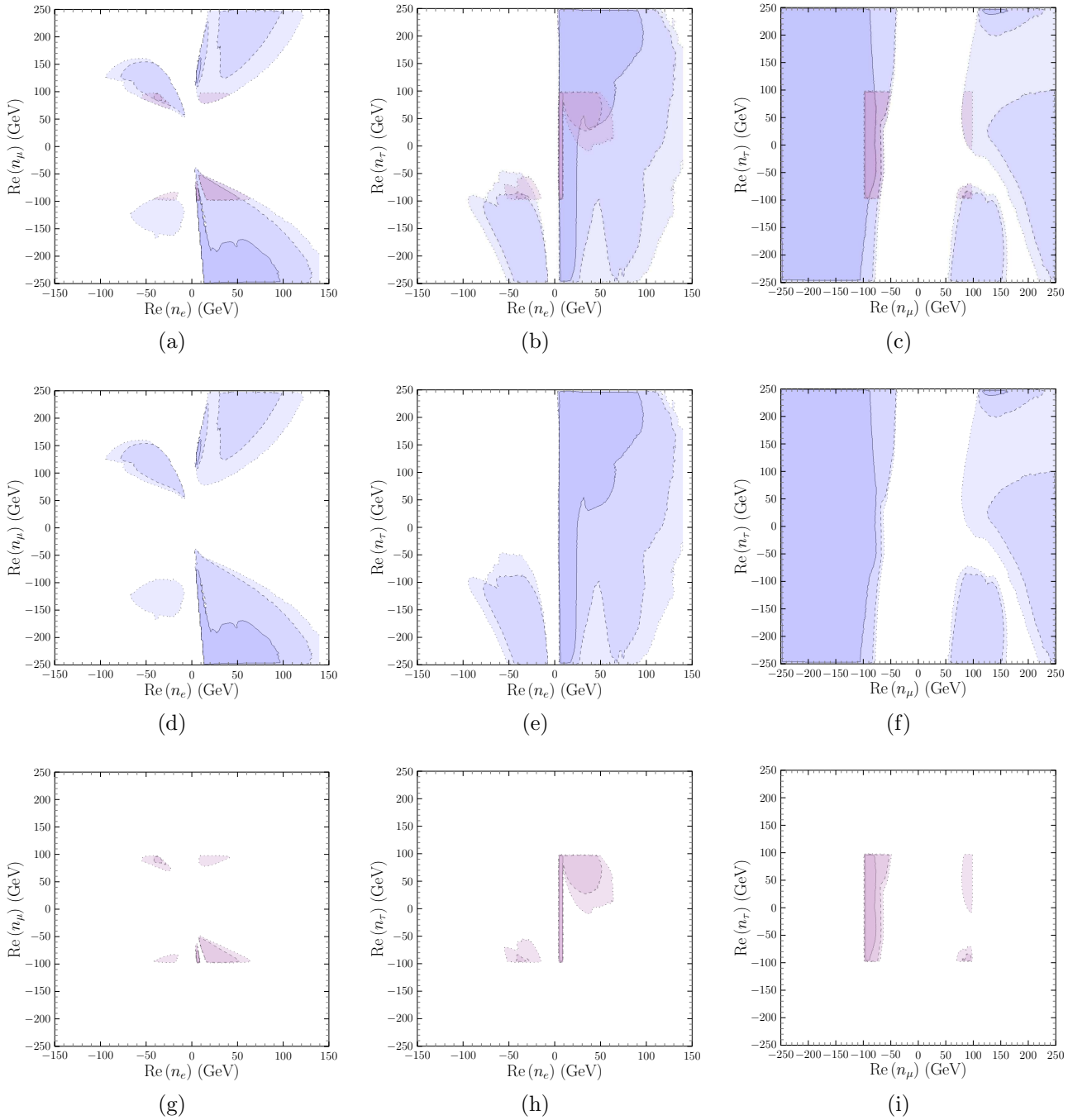

Figure 1: $\mathrm{Re}\,(n_\ell)$

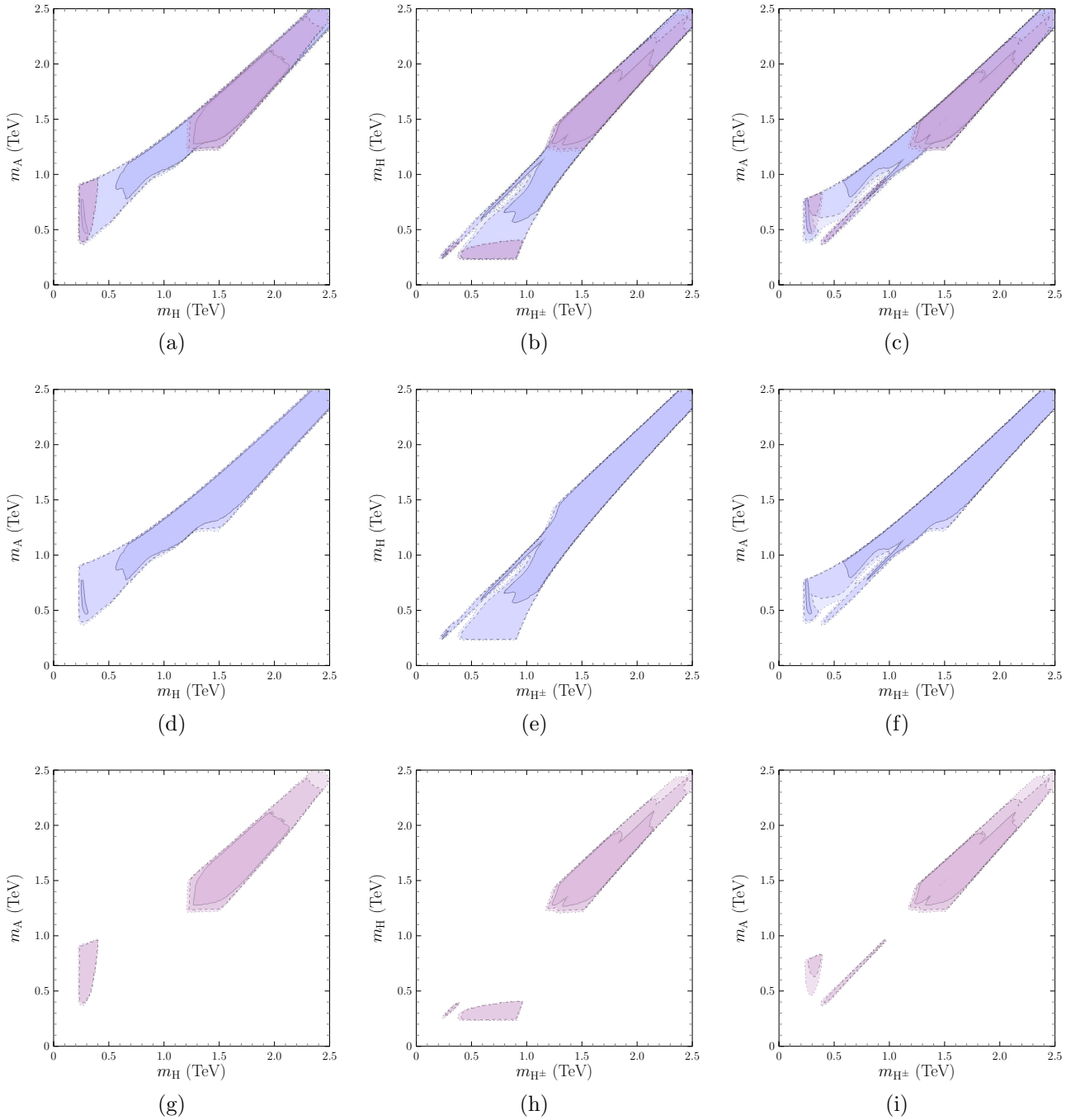

Figure 2: Scalar masses

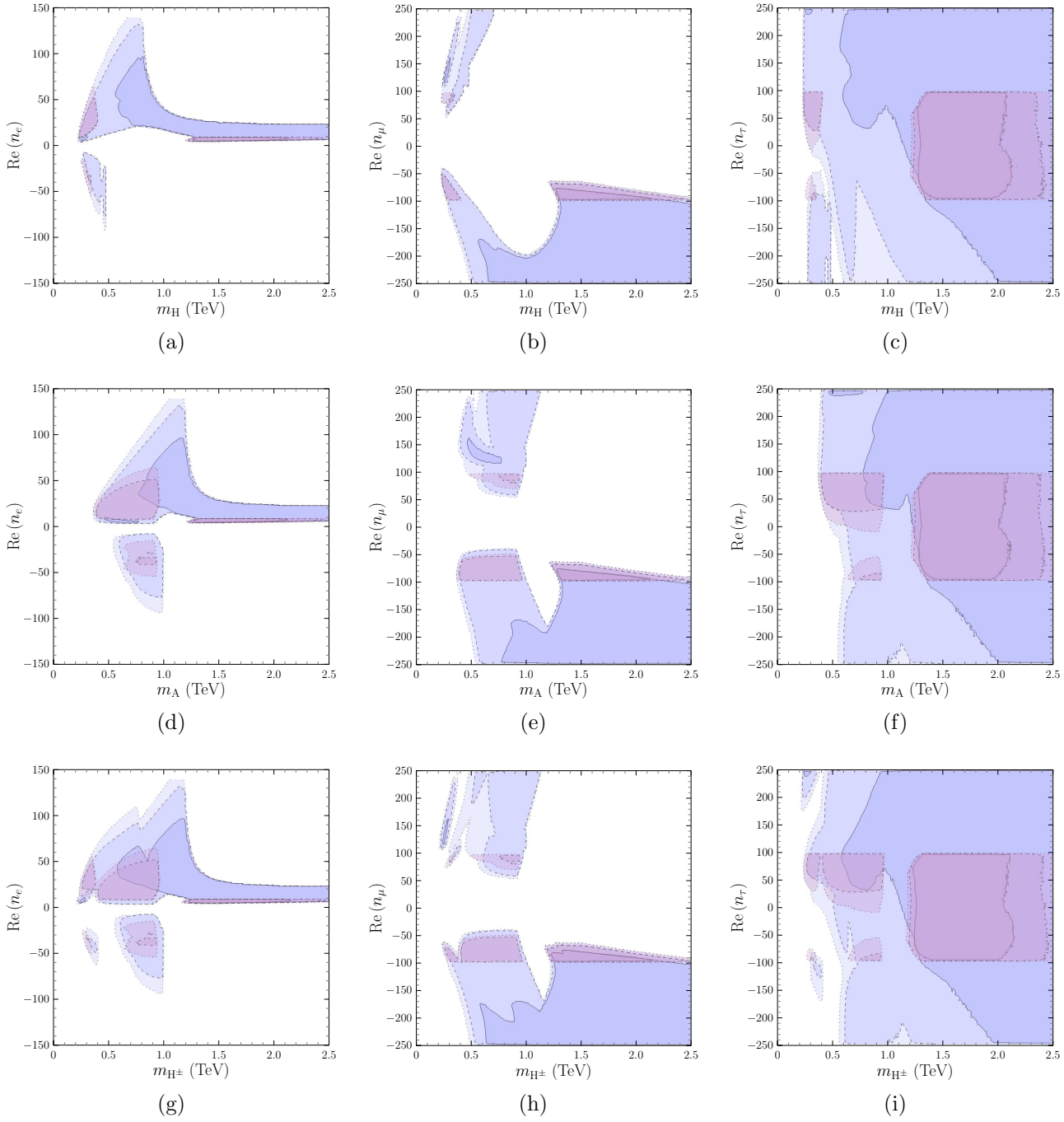

Figure 3: $\mathrm{Re}\,(n_\ell)$ vs Masses

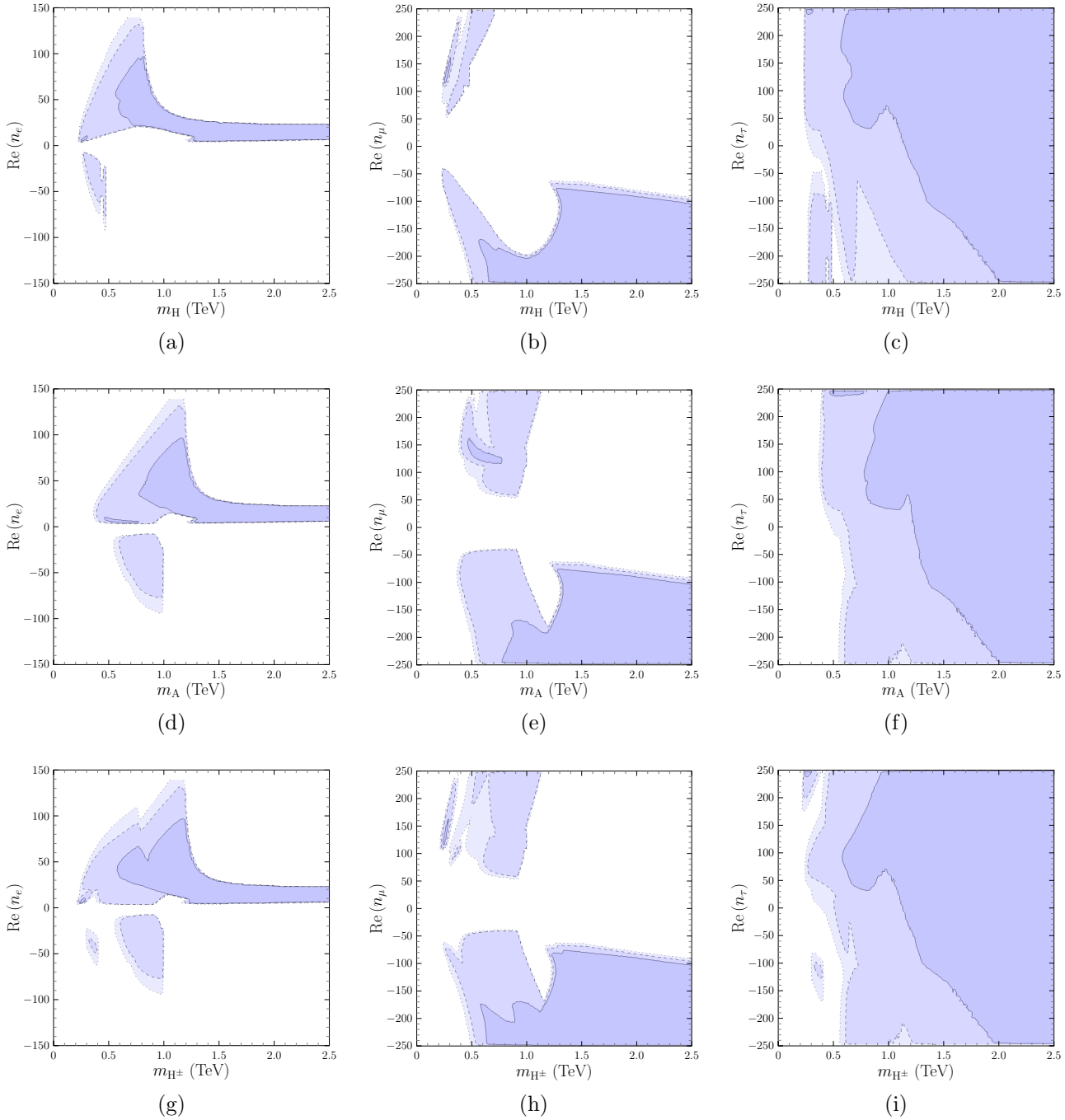

Figure 4: $\mathrm{Re}\,(n_\ell)$ vs Masses

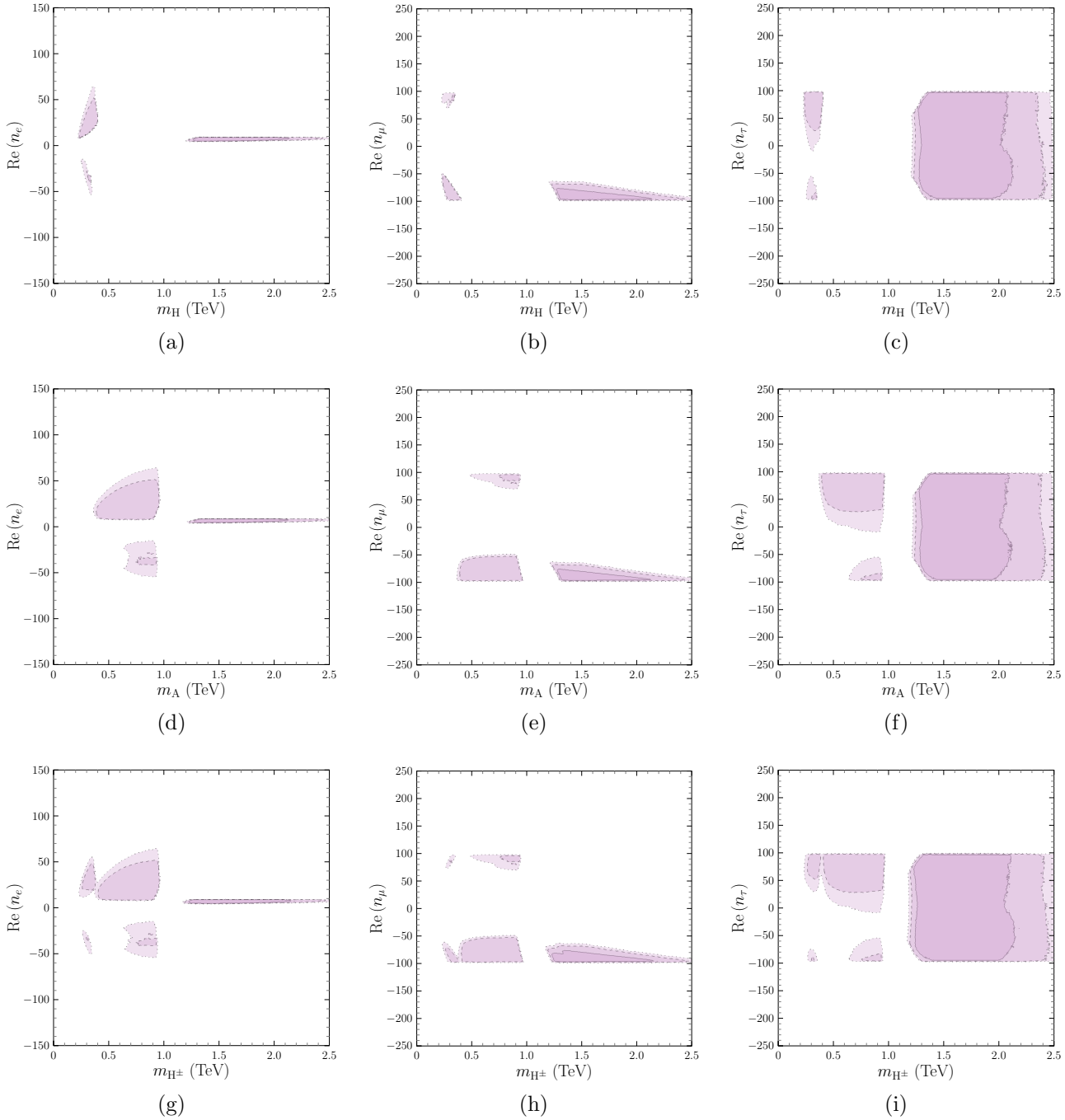

Figure 5: Re (n_ℓ) vs Masses

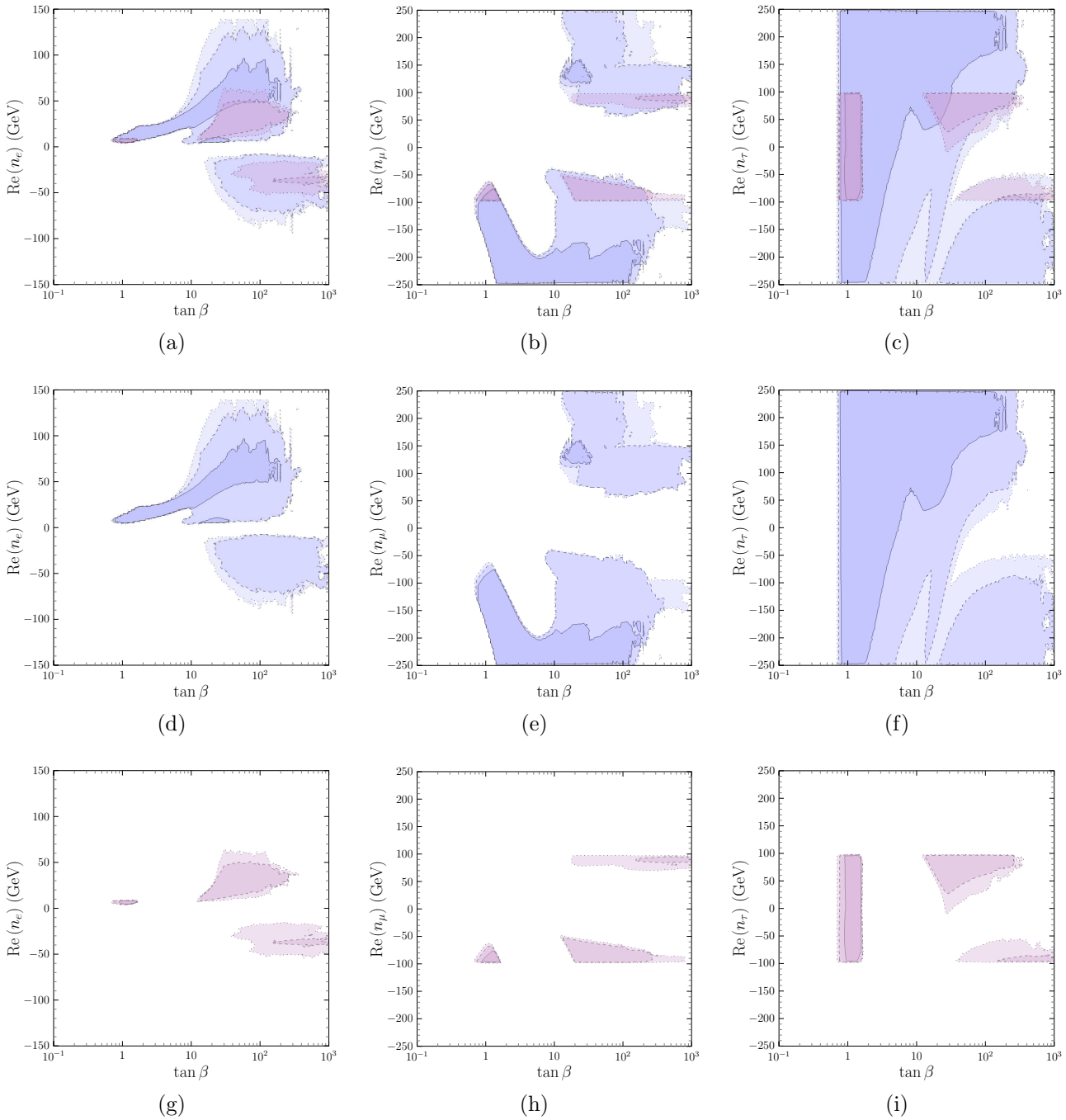

Figure 6: $\mathrm{Re}\,(n_\ell)$ vs. $\tan\beta$

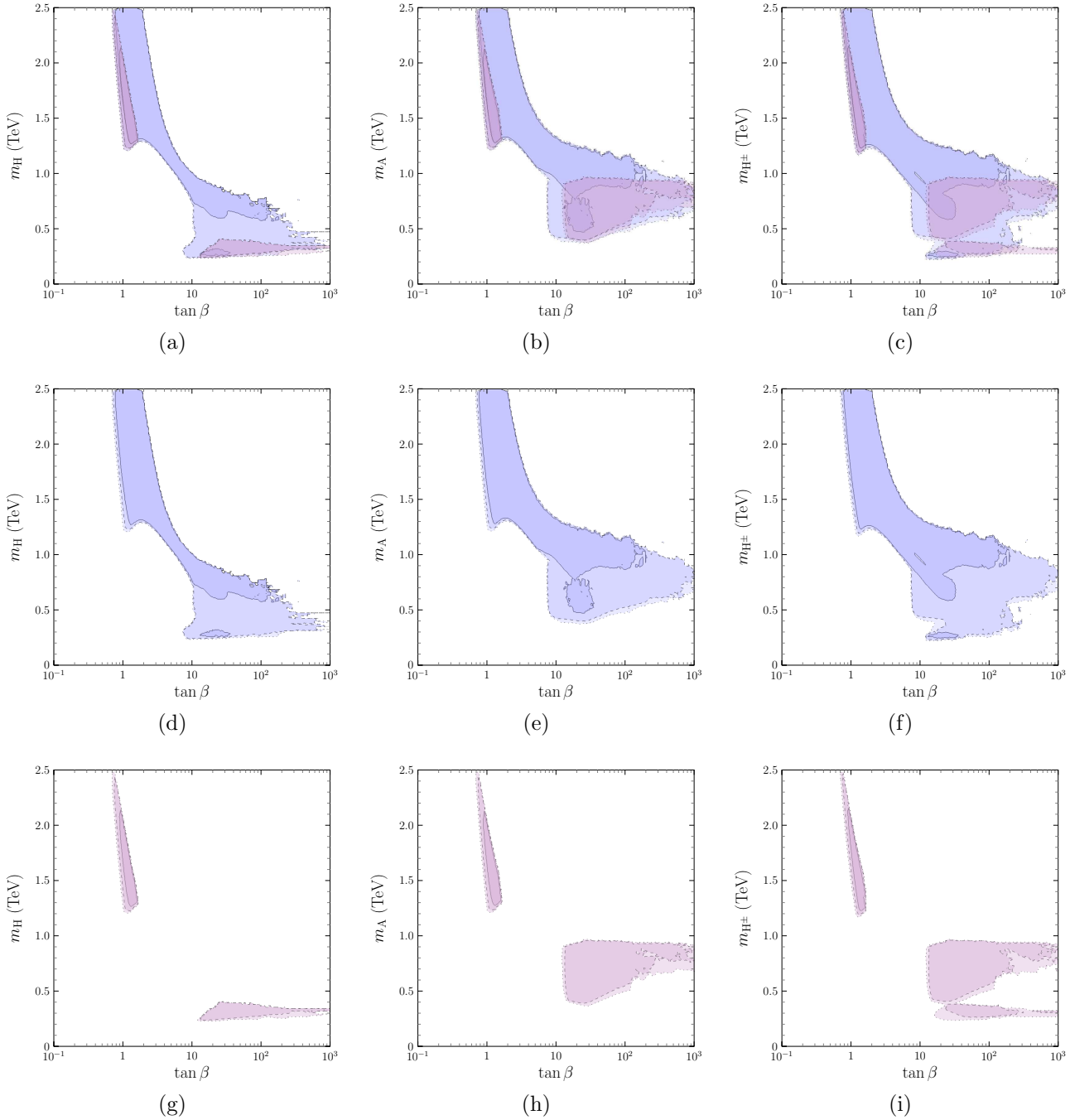

Figure 7: Masses vs. $\tan\beta$

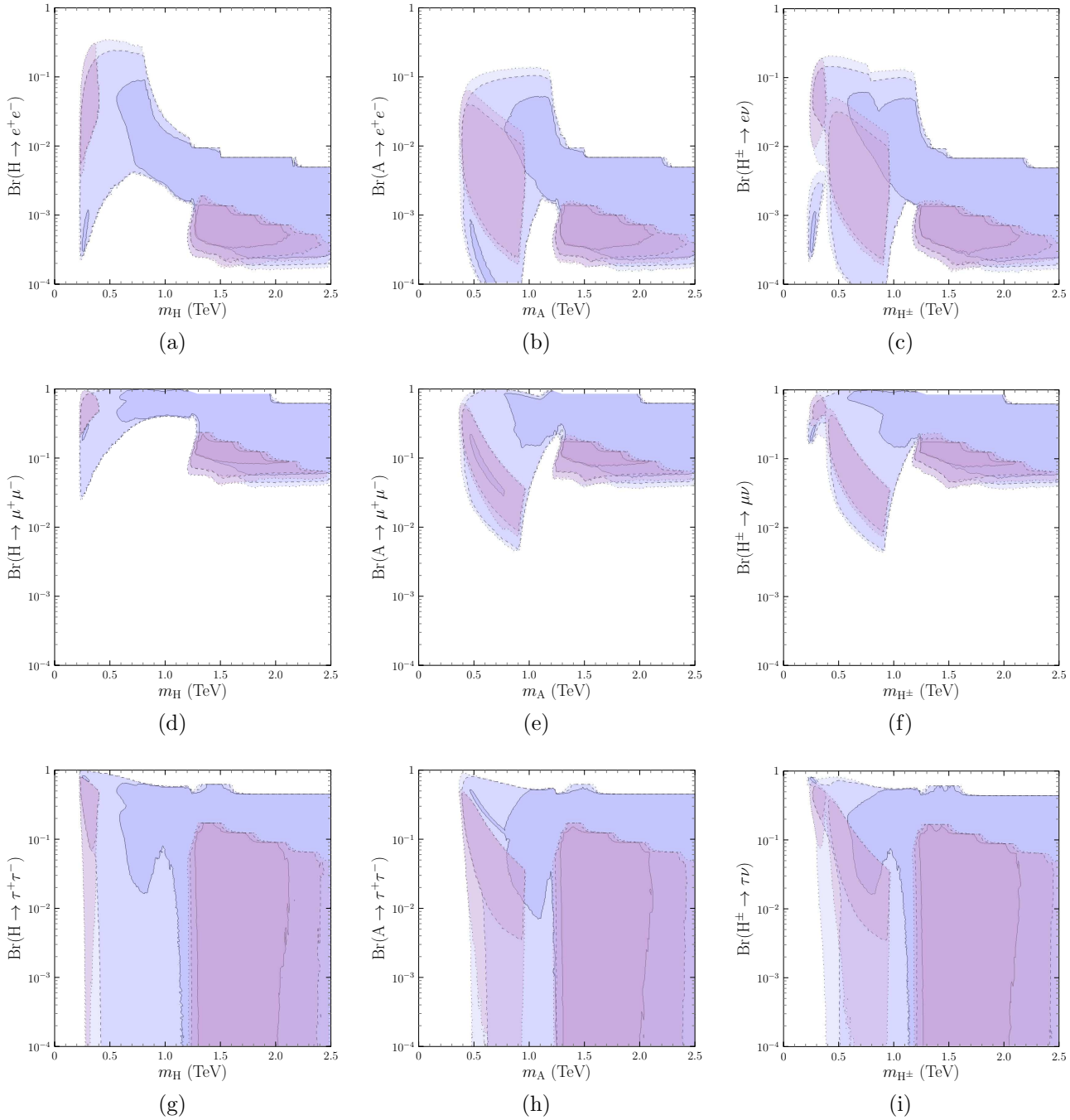

Figure 8: BR's of scalars (1)

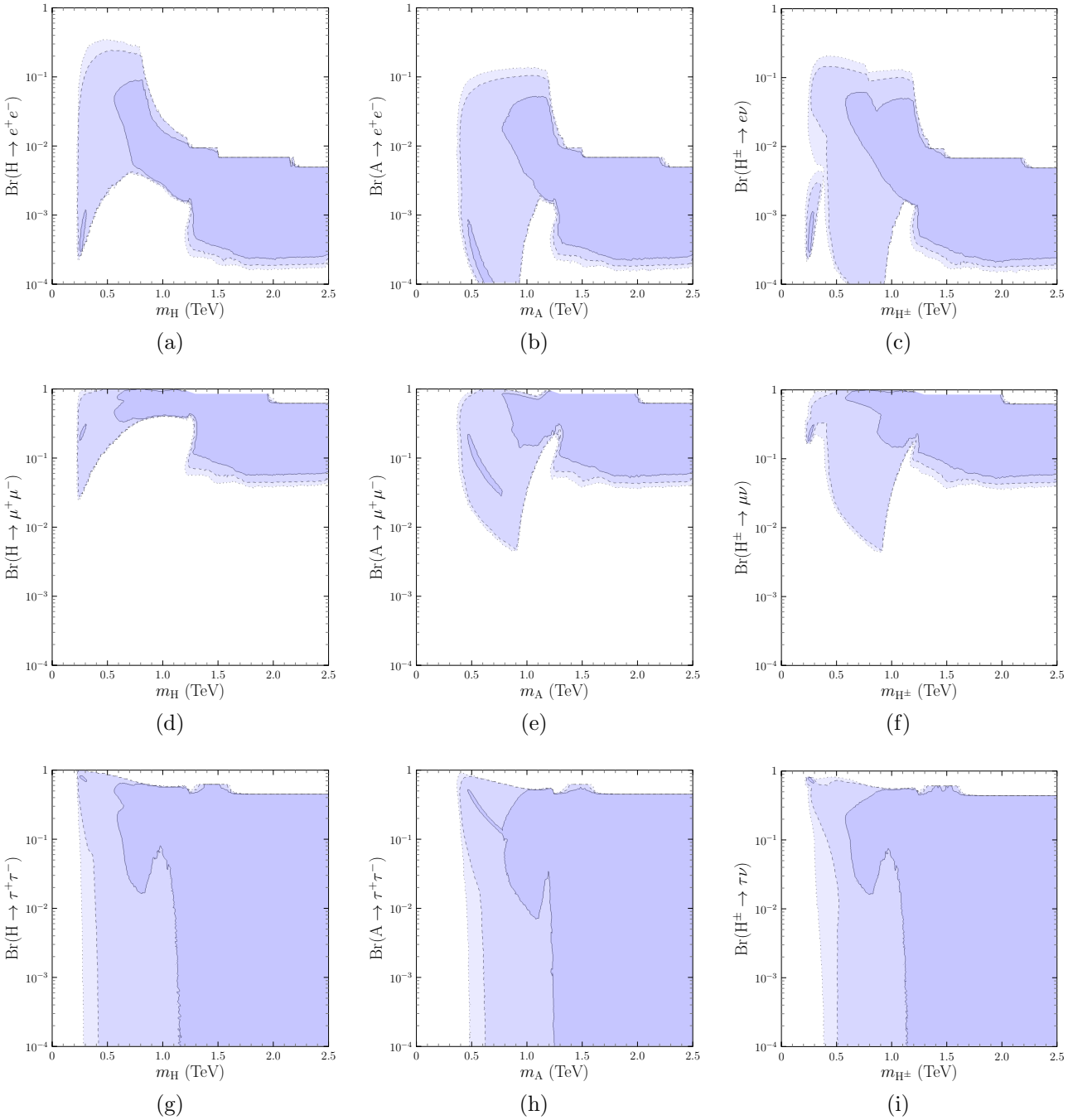

Figure 9: BR's of scalars (1)

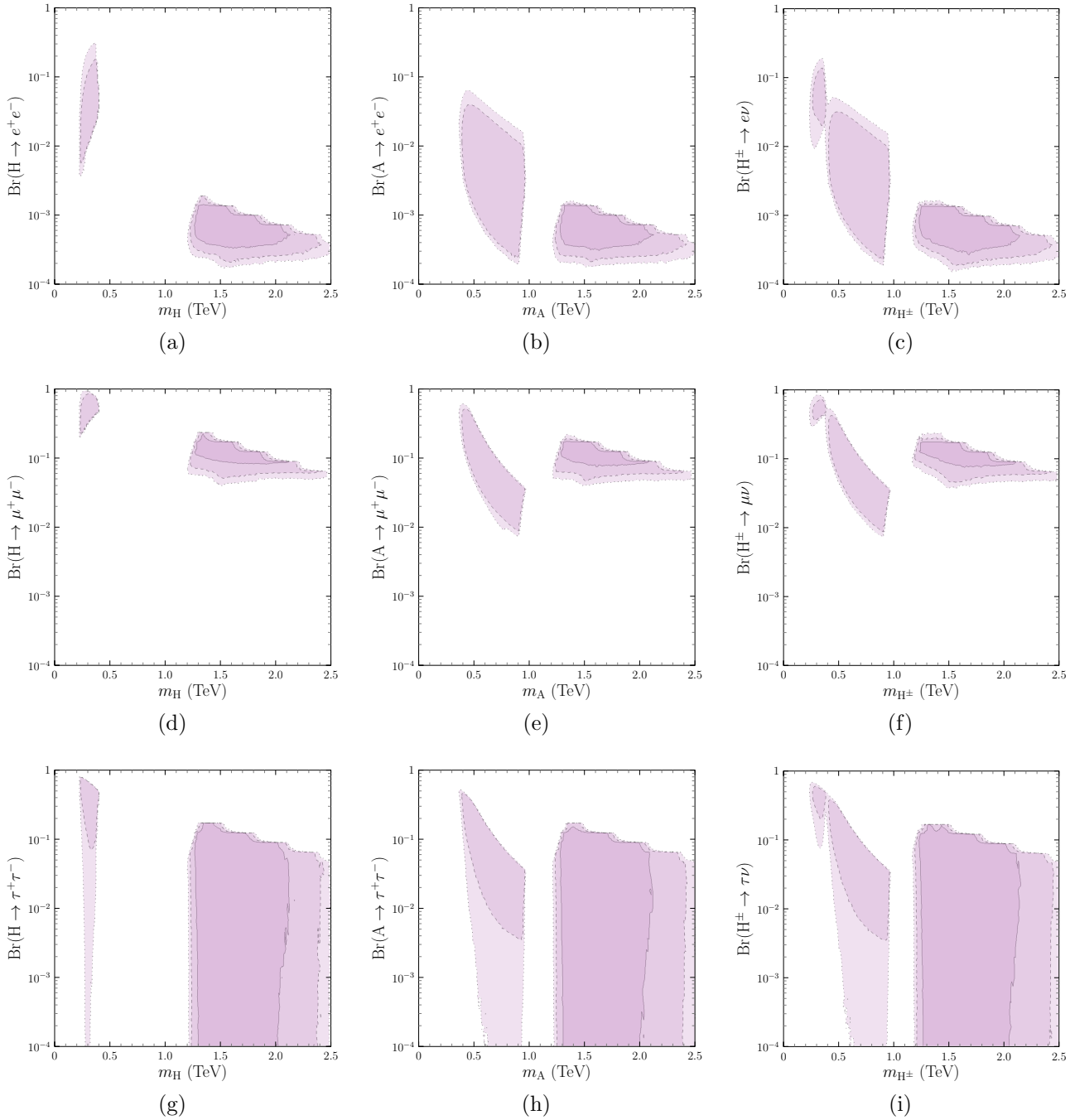

Figure 10: BR's of scalars (1)

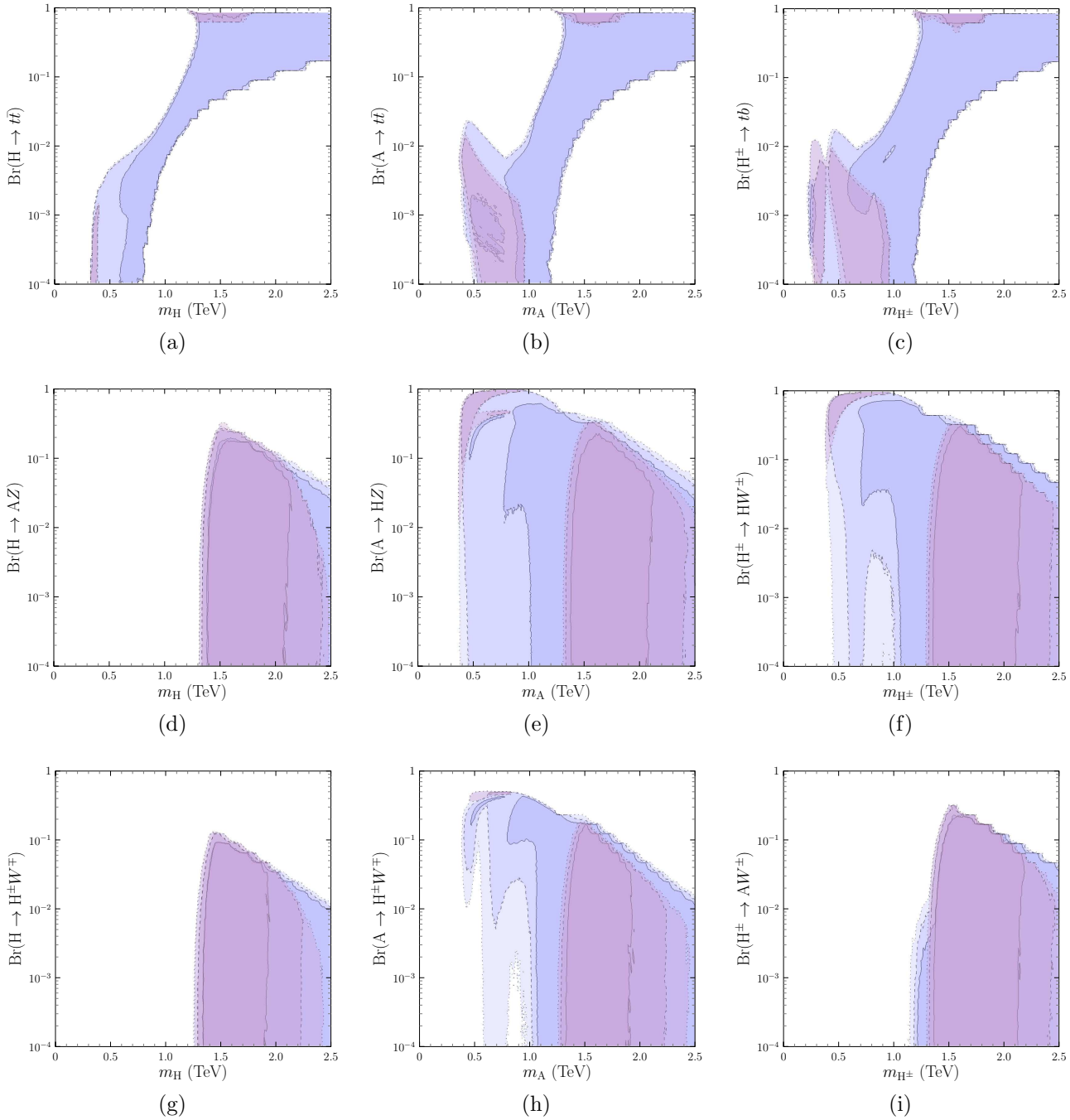

Figure 11: BR's of scalars (2)

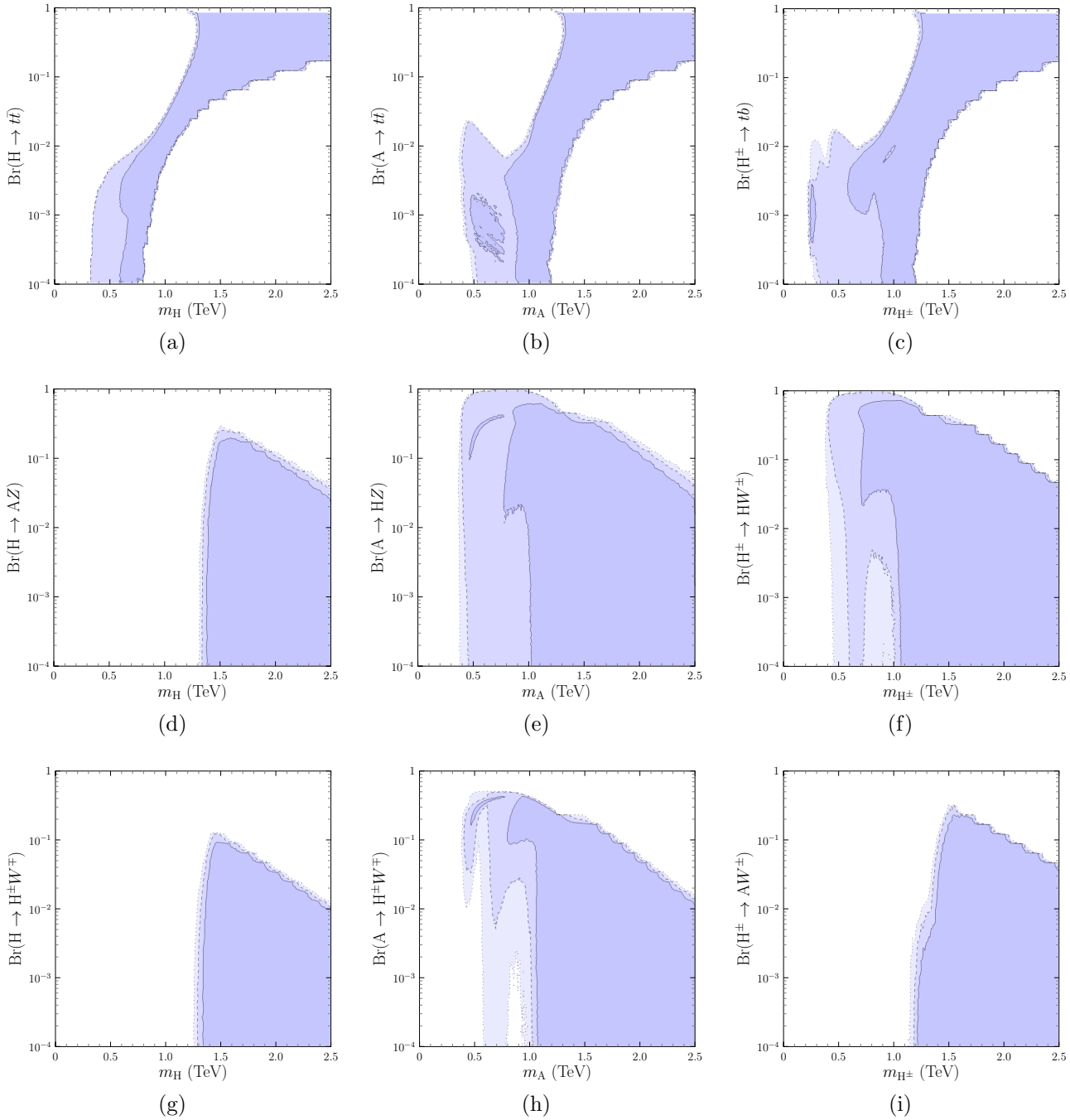

Figure 12: BR's of scalars (2)

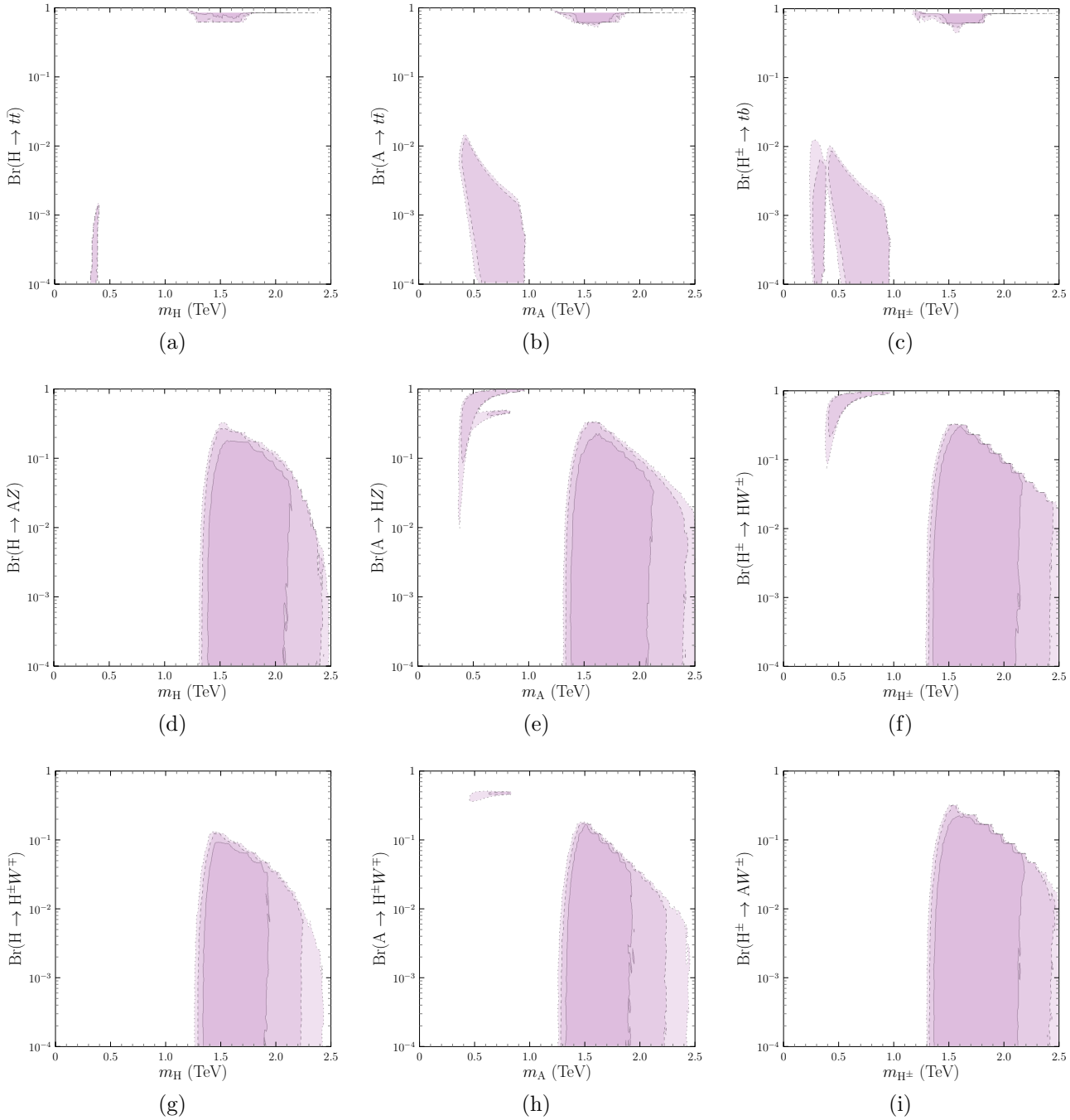

Figure 13: BR's of scalars (2)

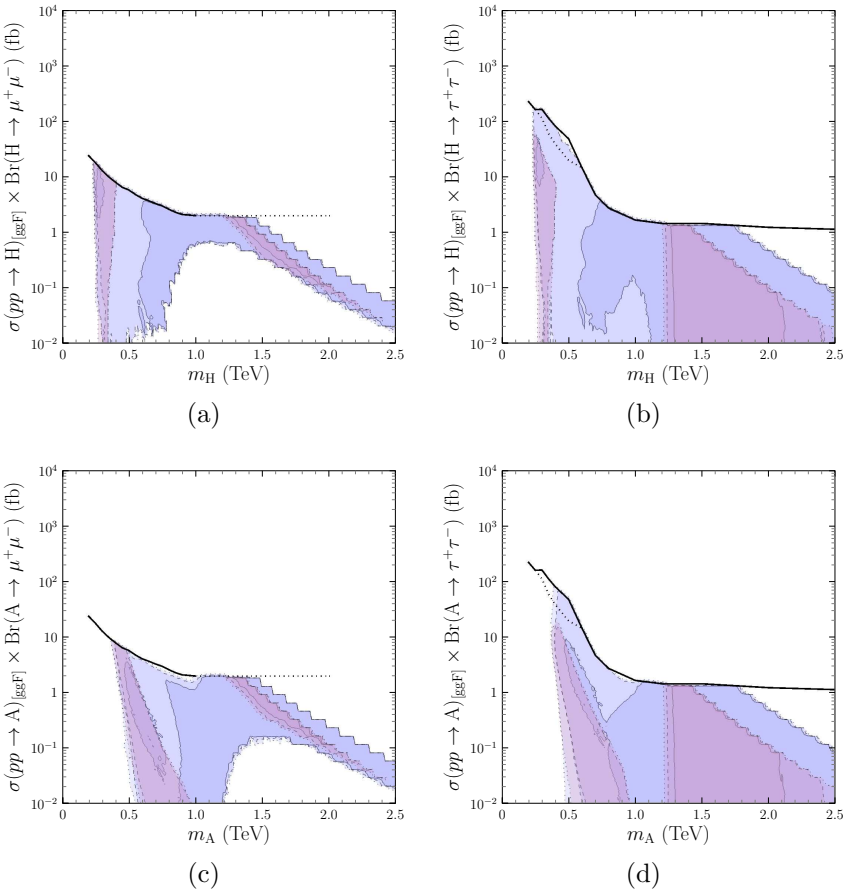

Figure 14: $[pp]_{\mathrm{ggF}} \to \mathrm{S} \to \ell^+\ell^-$

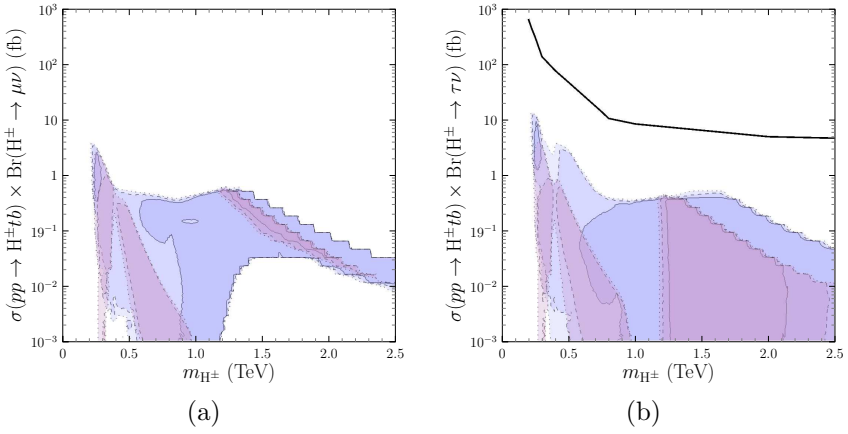

Figure 15: $[pp] \to \mathrm{H}^\pm(tb) \to \ell\nu$

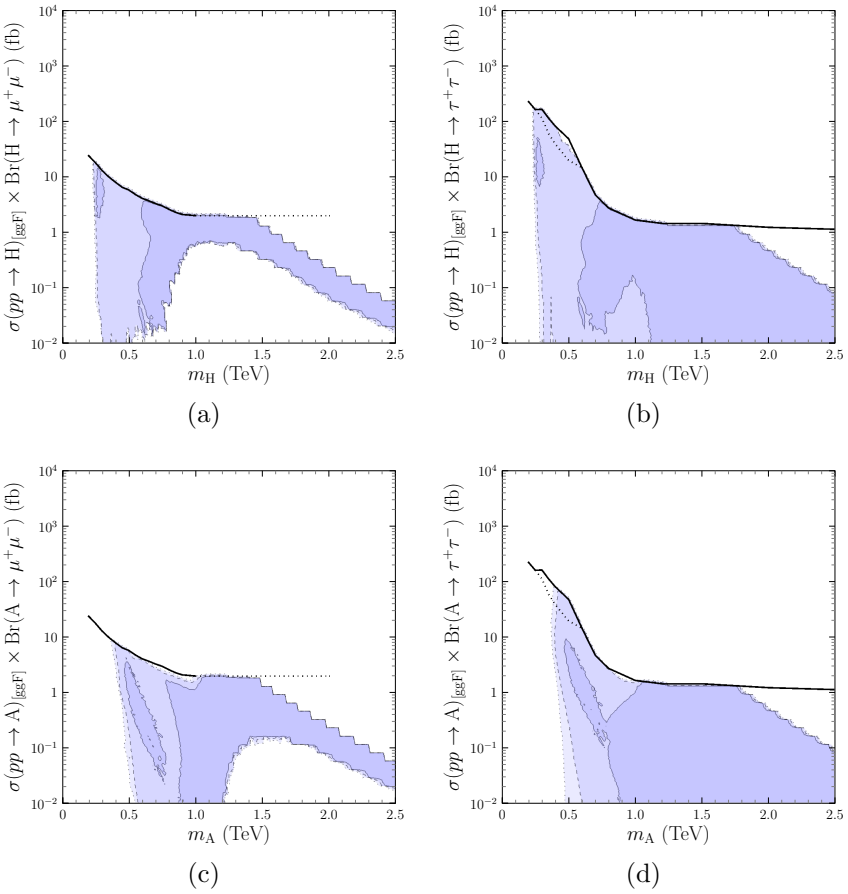

Figure 16: $[pp]_{\mathrm{ggF}} \to \mathrm{S} \to \ell^+\ell^-$

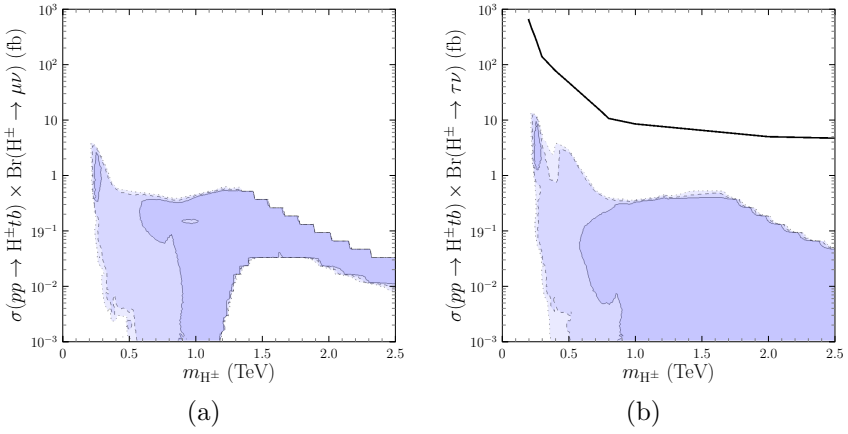

Figure 17: $[pp] \to \mathrm{H}^\pm(tb) \to \ell\nu$

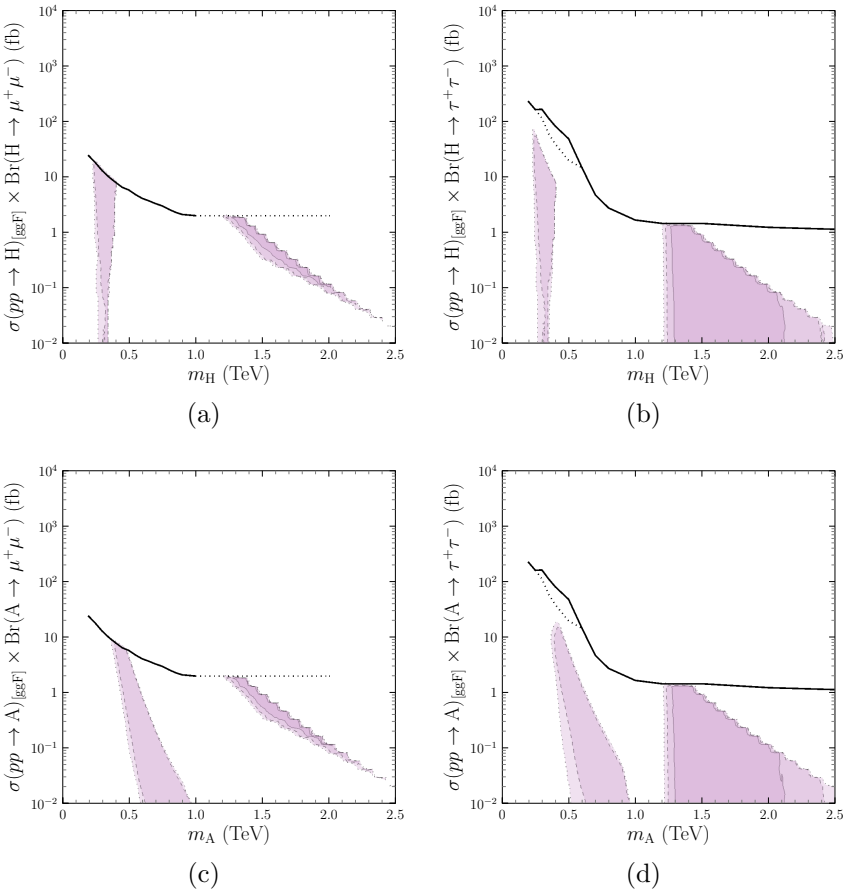

Figure 18: $[pp]_{\mathrm{ggF}} \to \mathrm{S} \to \ell^+\ell^-$

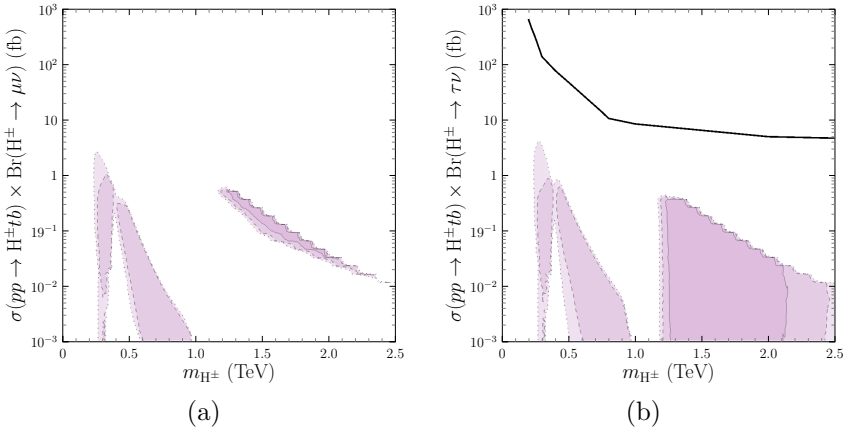

Figure 19: $[pp] \to \mathrm{H}^\pm(tb) \to \ell\nu$