Summary plots 2

February 21, 2022

List of Figures

Plots with constraints

- Small regions (following previous paper) around

$$\delta a_\mu = (2.5 \pm 0.6) \times 10^{-9},$$

  and three different values (blue, green, red regions, respectively)

$$\delta a_e = \{-8.7 \times 10^{-13},\, 4.8 \times 10^{-13},\, -2.0 \times 10^{-13}\},$$

  (N.B. uncertainties have different values $\{3.6 \times 10^{-13},\, 3.0 \times 10^{-13},\, 2.2 \times 10^{-13}\}$)

- perturbativity

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

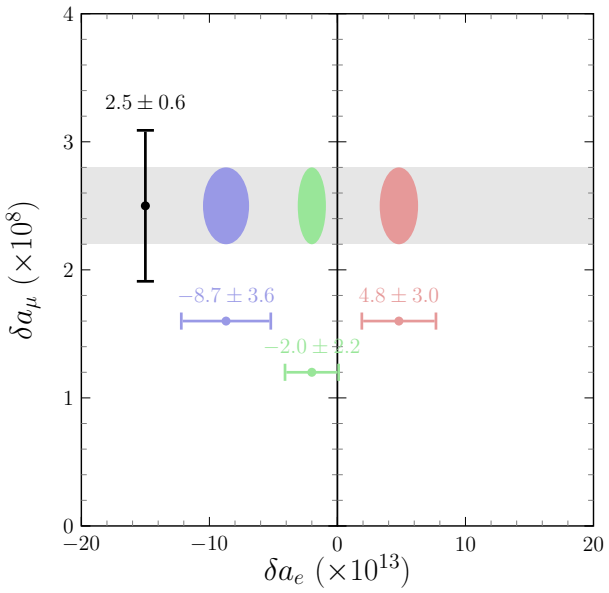
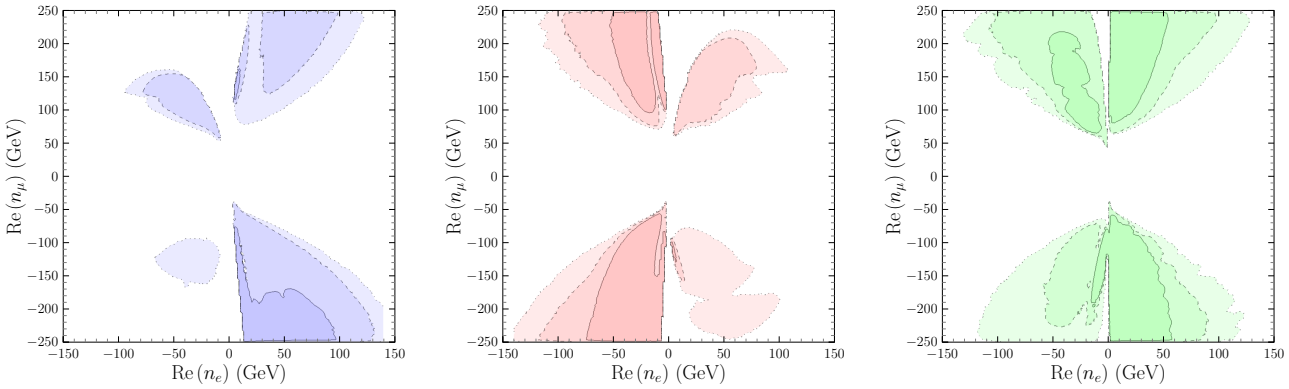
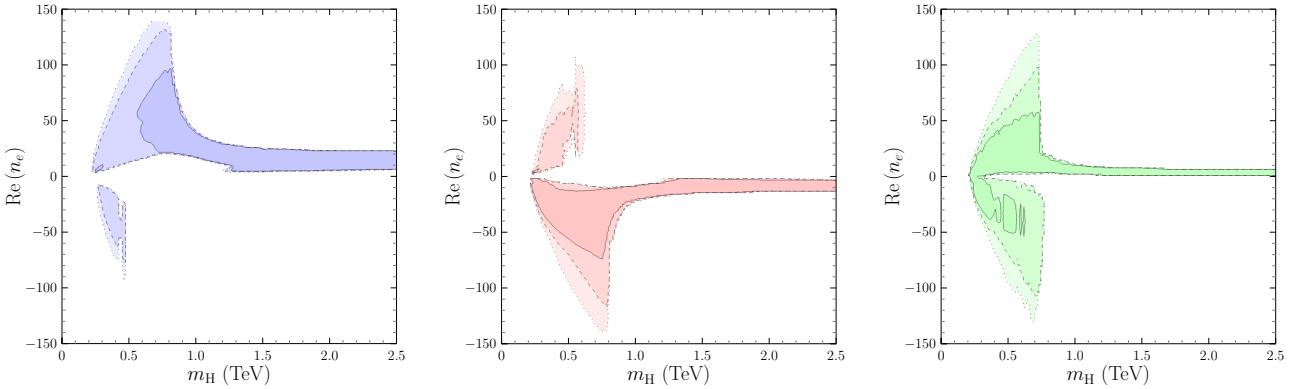

2.5 ± 0.6
-8.7 ± 3.6
-2.0 ± 2.2
4.8 ± 3.0
$\delta a_\mu\ (\times 10^8)$
$\delta a_e\ (\times 10^{13})$
4
3
2
1
0
−20
−10
0
10
20

Figure 1



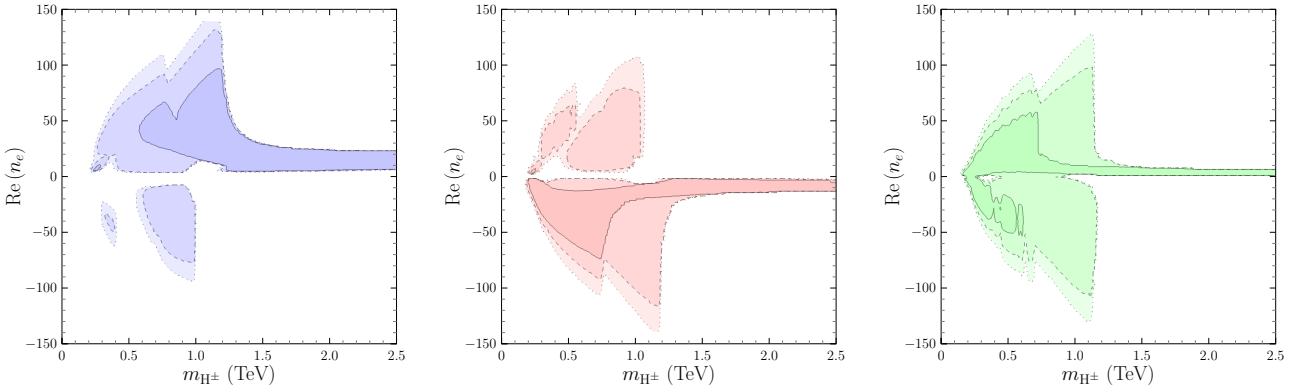
(a) (b) (c)

Figure 2: $\mathrm{Re}\,(n_\mu)$ vs $\mathrm{Re}\,(n_e)$



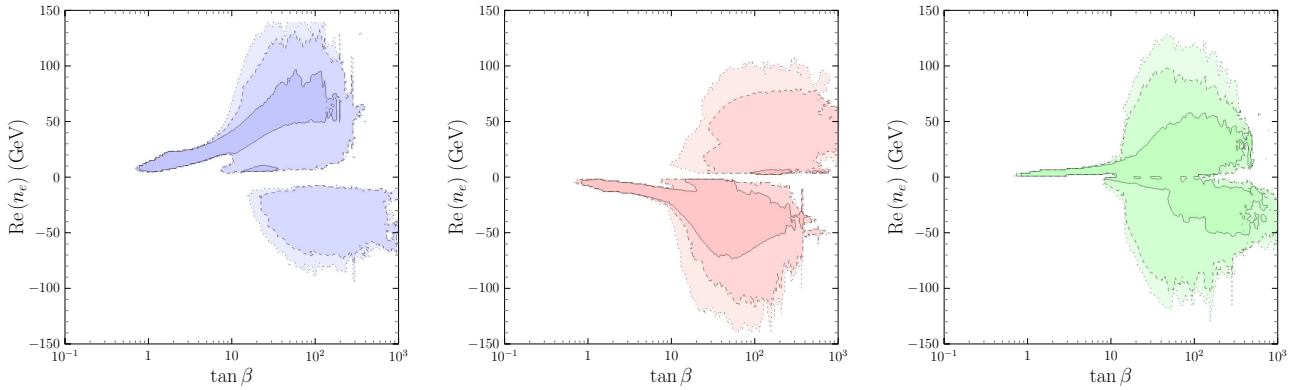
(a) (b) (c)

Figure 3: $\mathrm{Re}\,(n_e)$ vs m_{H}



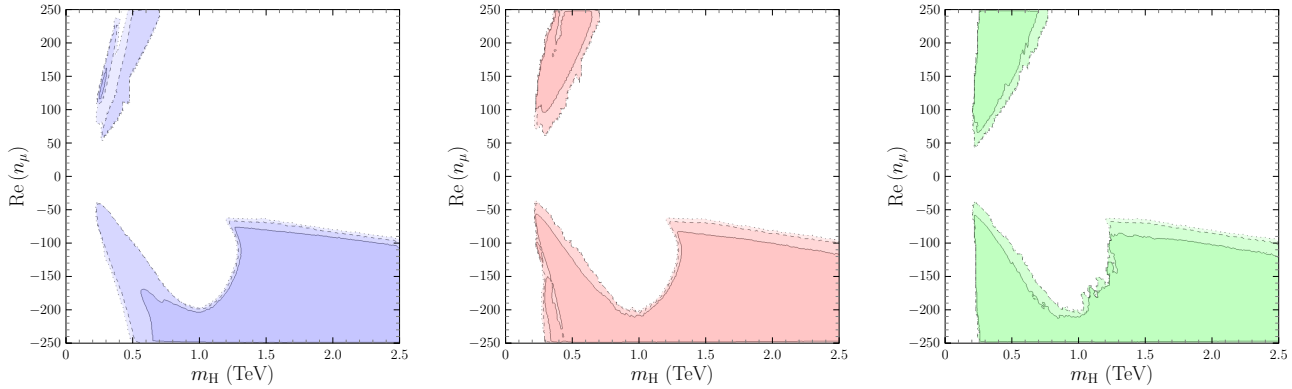
(a) (b) (c)

Figure 4: $\mathrm{Re}\,(n_e)$ vs $m_{\mathrm{H}^\pm}$



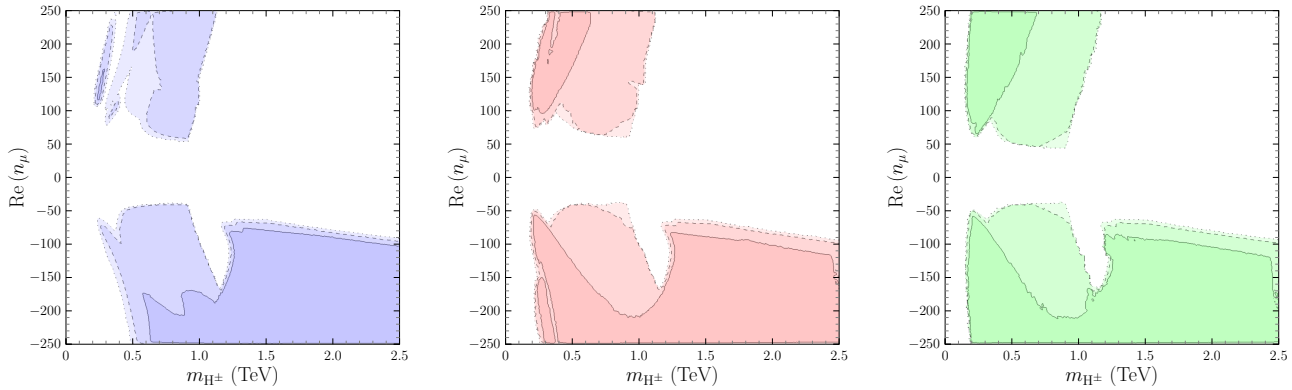
(a) (b) (c)

Figure 5: Re (n_e) vs tan β



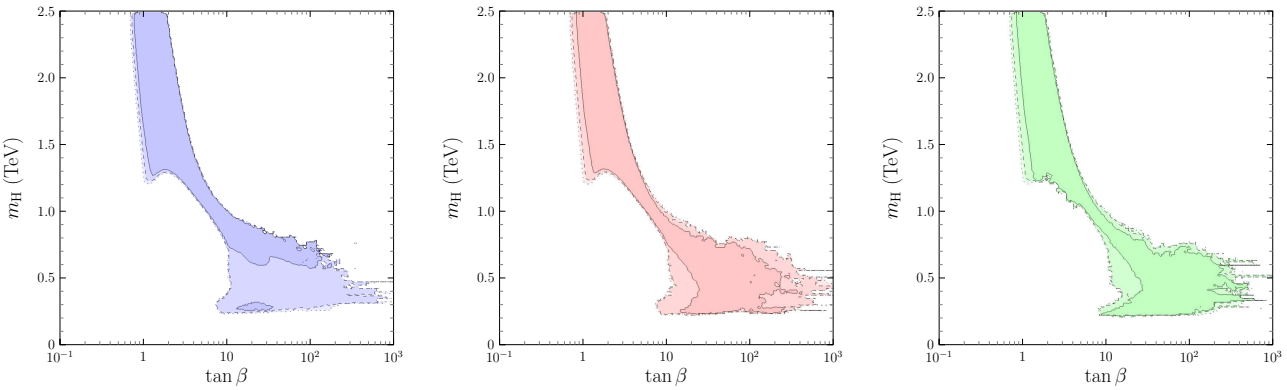
(a) (b) (c)

Figure 6: Re (n_μ) vs m_{H}



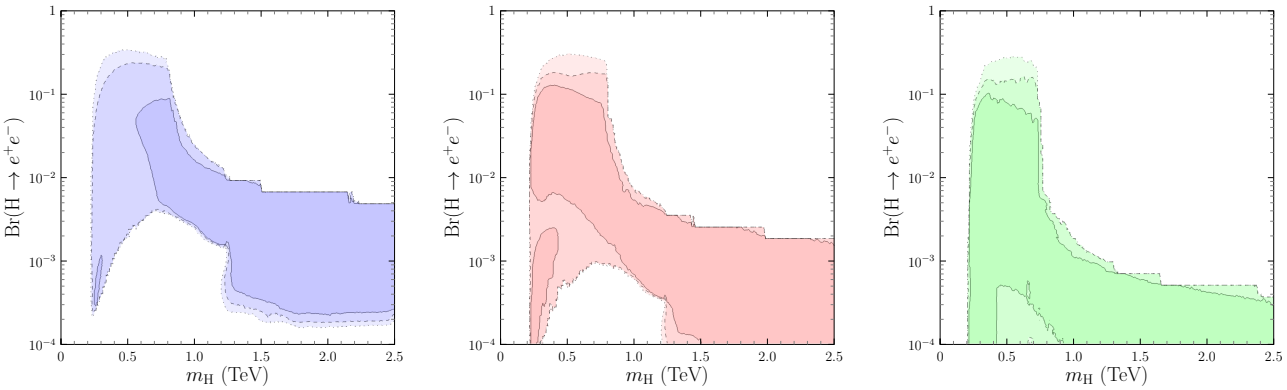
(a) (b) (c)

Figure 7: Re (n_μ) vs $m_{\mathrm{H}^\pm}$



(a) (b) (c)

Figure 8: m_{H} vs $\tan\beta$



(a) (b) (c)

Figure 9: BR(H $\to e^+e^-$) vs m_{H}