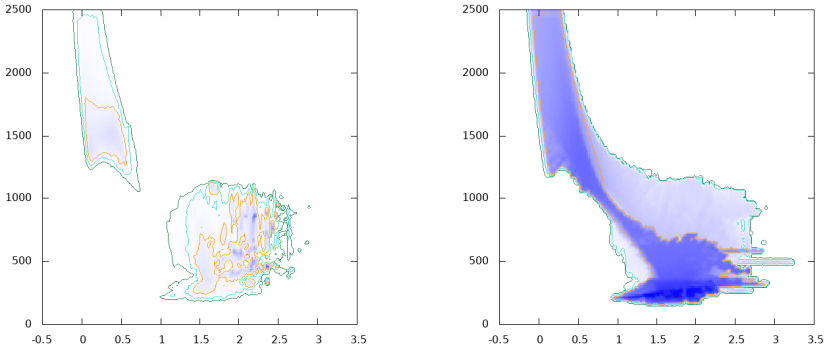
Two-dimensional plots - Summary group 3

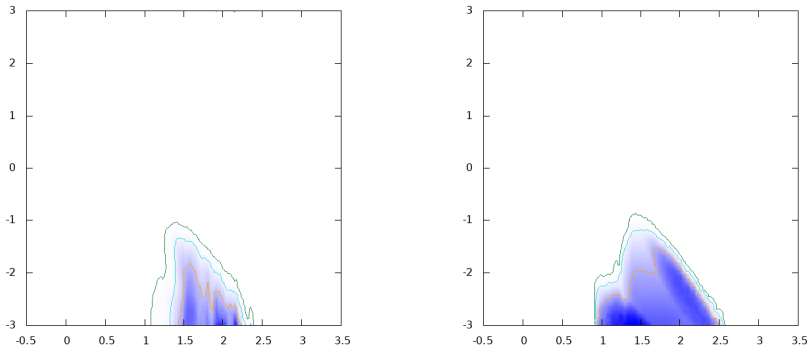
February 21, 2022

List of Figures



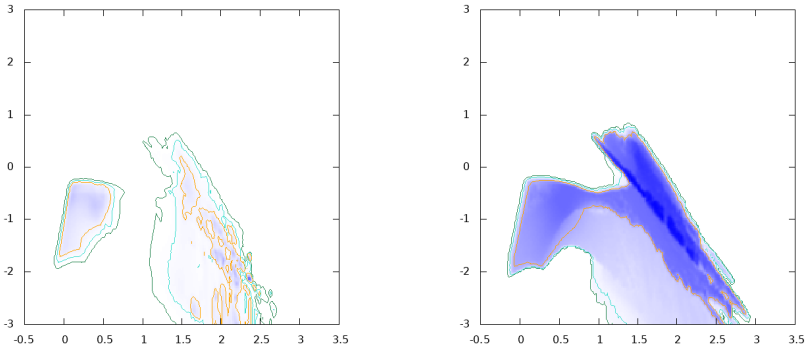
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 1: $m_{H^\pm}$ GeV vs. $\log_{10}\tan\beta$



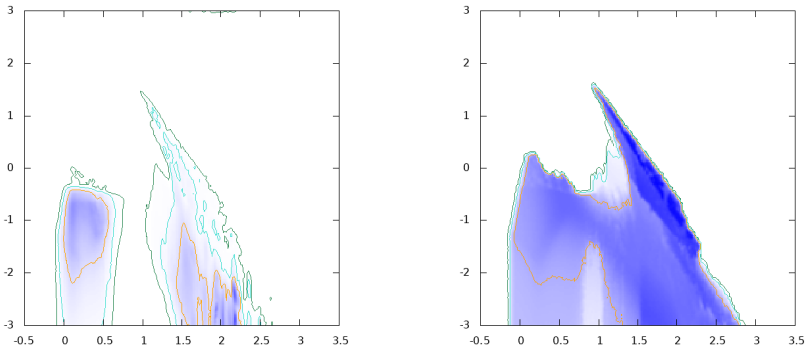
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 2: $\log_{10}\sigma(pp \to H^\pm tb)(H^\pm \to e^\pm\nu)$ (fb) vs. $\log_{10}\tan\beta$



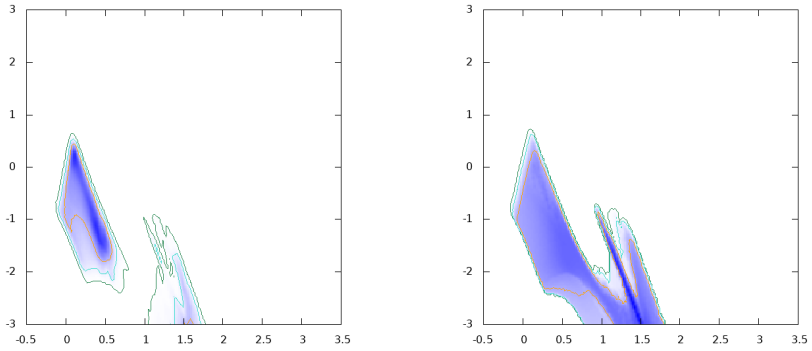
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 3: $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to \mu^{\pm}\nu)$ (fb) vs. $\log_{10}\tan\beta$



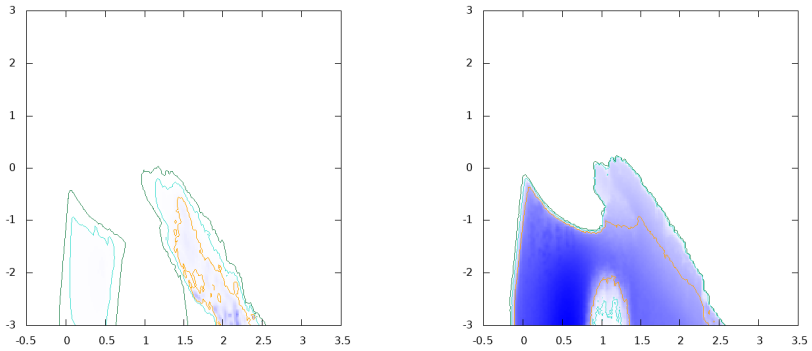
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 4: $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to \tau^{\pm}\nu)$ (fb) vs. $\log_{10}\tan\beta$



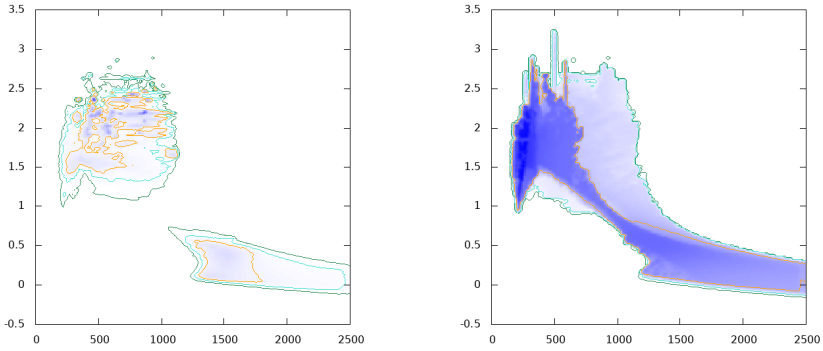
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 5: $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to tb)$ (fb) vs. $\log_{10}\tan\beta$



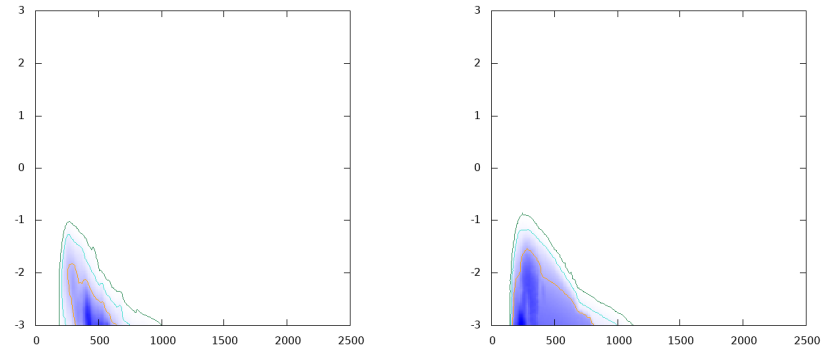
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 6: $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to HW^{\pm})$ (fb) vs. $\log_{10}\tan\beta$



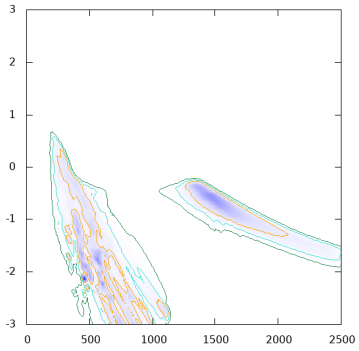
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 7: $\log_{10}\tan\beta$ vs. $m_{H^\pm}$ GeV

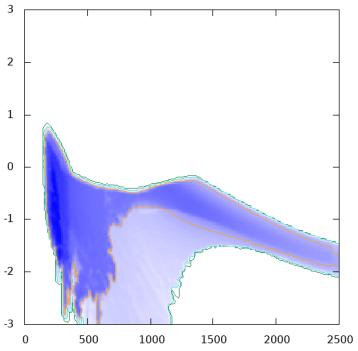


(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 8: $\log_{10}\sigma(pp \to H^\pm tb)(H^\pm \to e^\pm\nu)$ (fb) vs. $m_{H^\pm}$ GeV

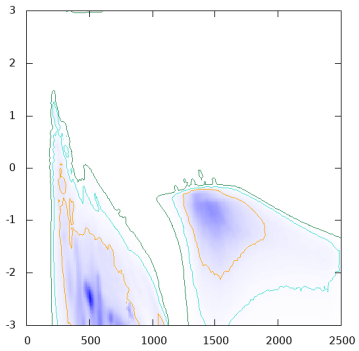


(a) PDF

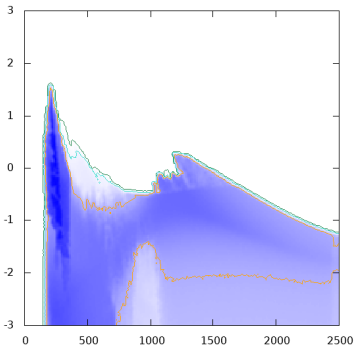


(b) $-2\ln(\mathcal{L})$

Figure 9: $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to \mu^{\pm}\nu)$ (fb) vs. $m_{H^{\pm}}$ GeV

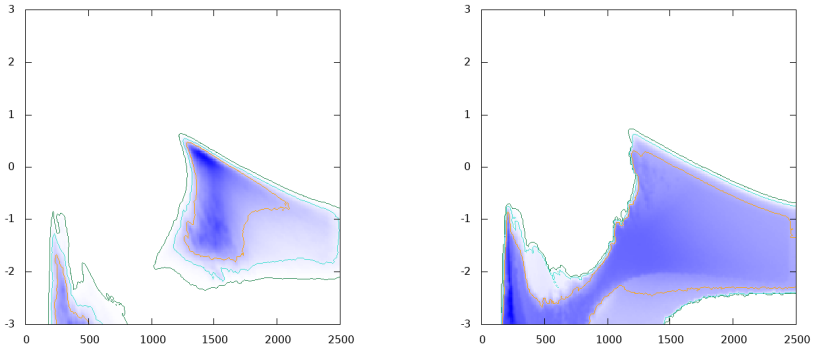


(a) PDF



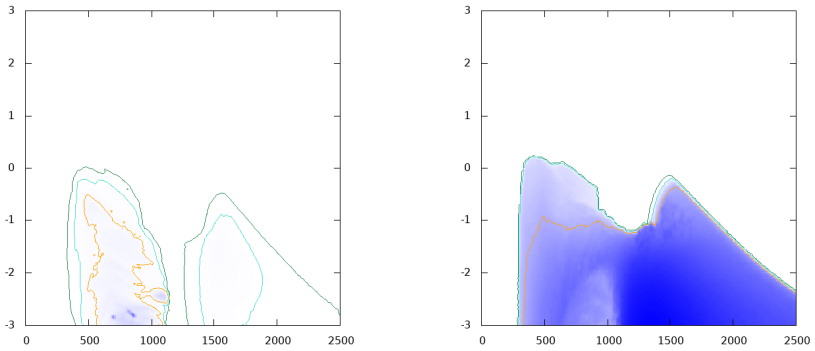
(b) $-2\ln(\mathcal{L})$

Figure 10: $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to \tau^{\pm}\nu)$ (fb) vs. $m_{H^{\pm}}$ GeV



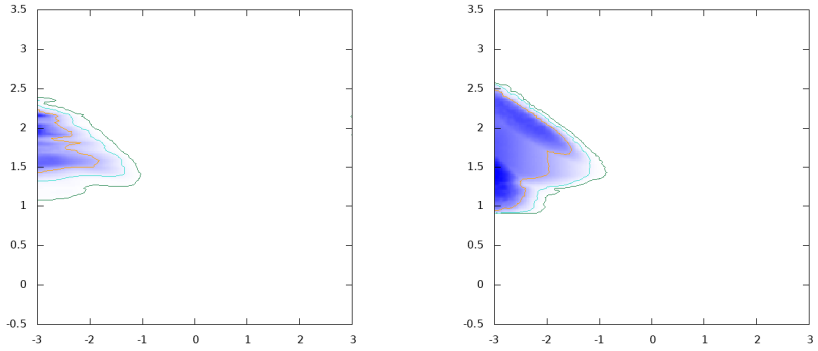
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 11: $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to tb)$ (fb) vs. $m_{H^{\pm}}$ GeV



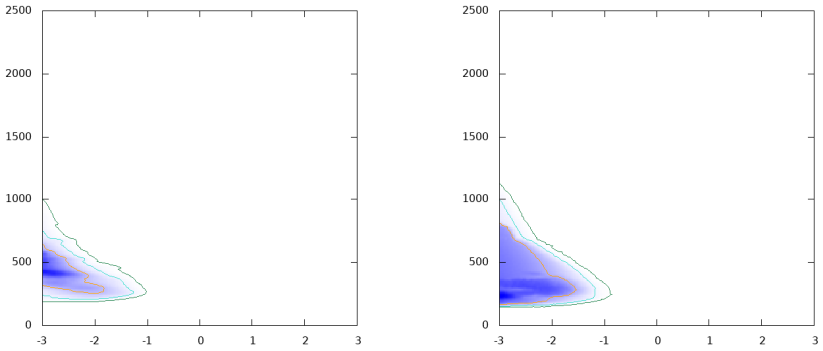
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 12: $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to HW^{\pm})$ (fb) vs. $m_{H^{\pm}}$ GeV



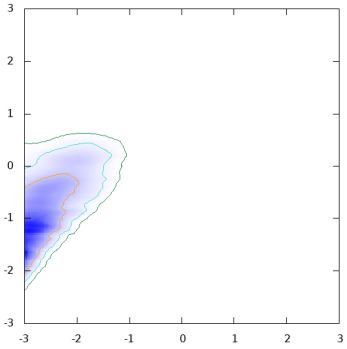
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 13: $\log_{10}\tan\beta$ vs. $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to e^{\pm}\nu)$ (fb)

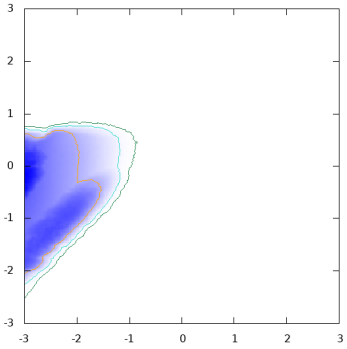


(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 14: $m_{H^{\pm}}$ GeV vs. $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to e^{\pm}\nu)$ (fb)

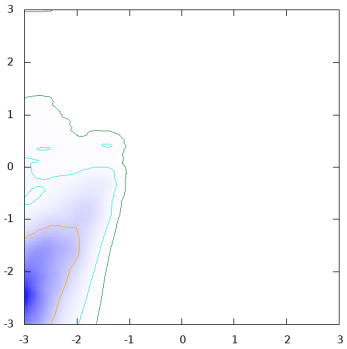


(a) PDF

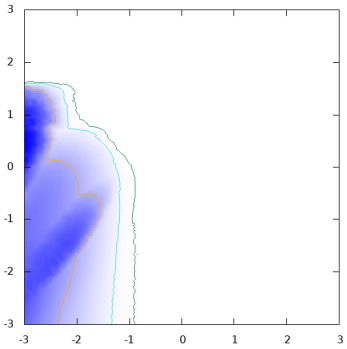


(b) $-2\ln(\mathcal{L})$

Figure 15: $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to \mu^{\pm}\nu)$ (fb) vs. $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to e^{\pm}\nu)$ (fb)

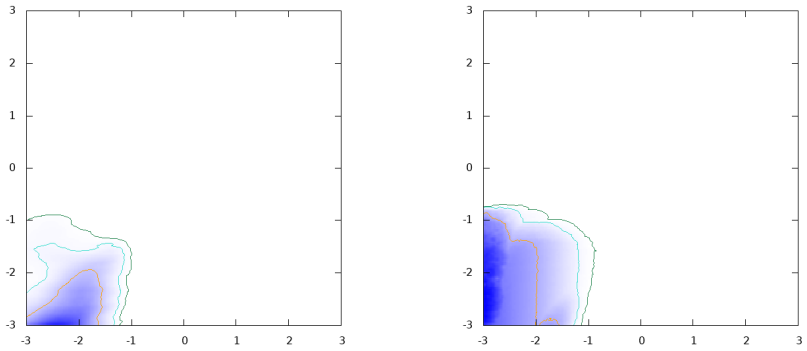


(a) PDF



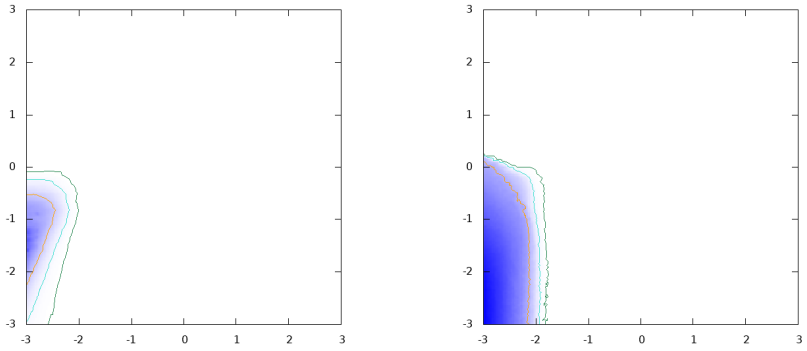
(b) $-2\ln(\mathcal{L})$

Figure 16: $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to \tau^{\pm}\nu)$ (fb) vs. $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to e^{\pm}\nu)$ (fb)



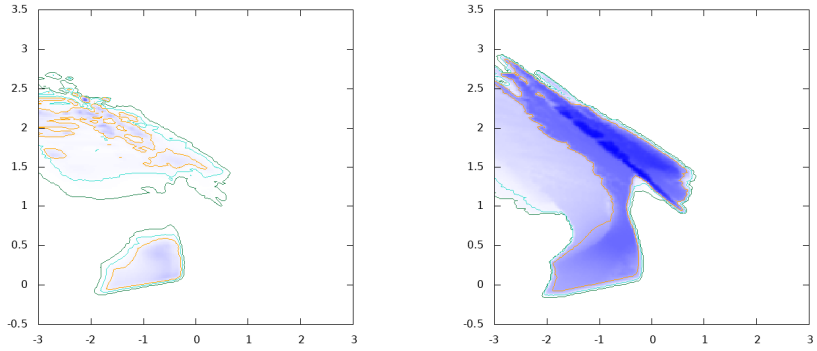
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 17: $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to tb)$ (fb) vs. $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to e^{\pm}\nu)$ (fb)



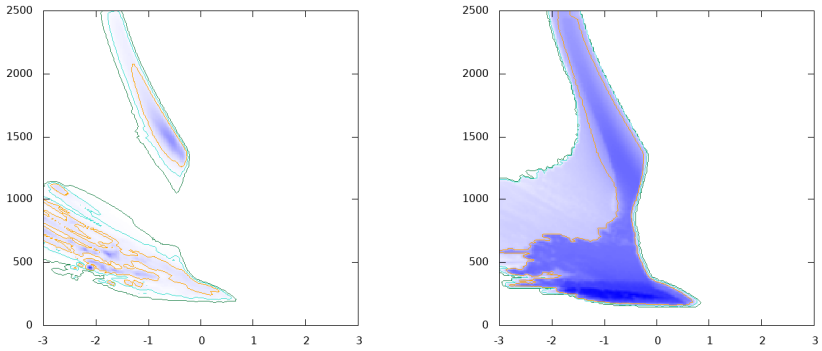
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 18: $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to HW^{\pm})$ (fb) vs. $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to e^{\pm}\nu)$ (fb)



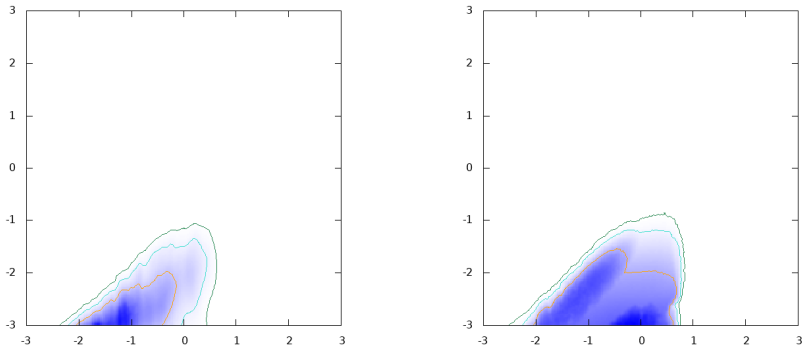
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 19: $\log_{10}\tan\beta$ vs. $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to \mu^{\pm}\nu)$ (fb)



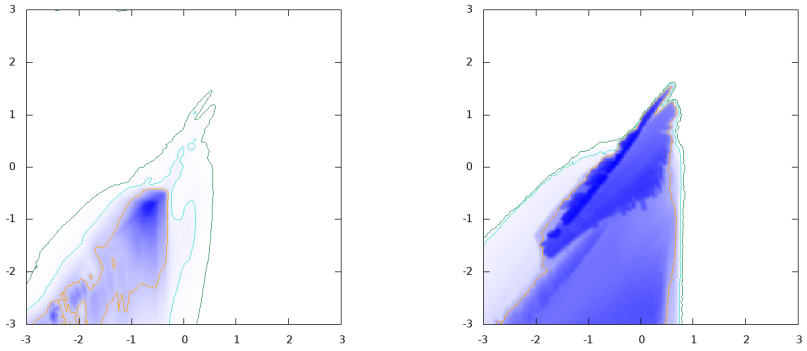
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 20: $m_{H^{\pm}}$ GeV vs. $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to \mu^{\pm}\nu)$ (fb)



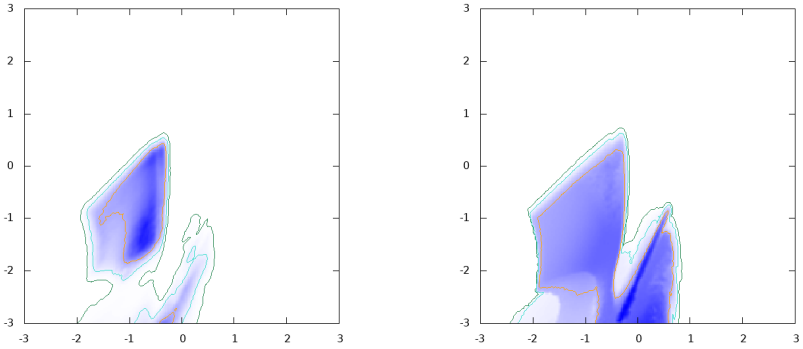
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 21: $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to e^{\pm}\nu)$ (fb) vs. $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to \mu^{\pm}\nu)$ (fb)



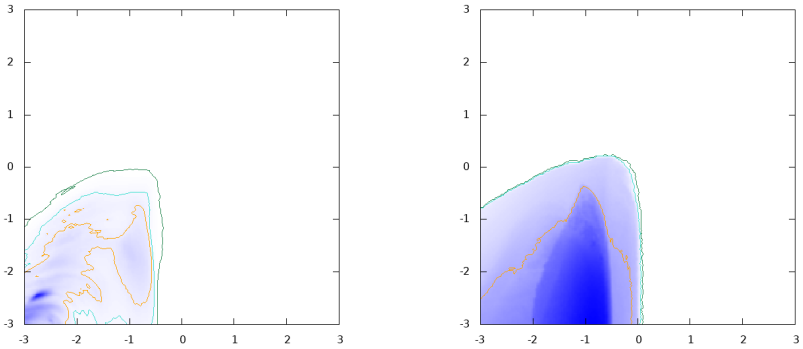
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 22: $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to \tau^{\pm}\nu)$ (fb) vs. $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to \mu^{\pm}\nu)$ (fb)



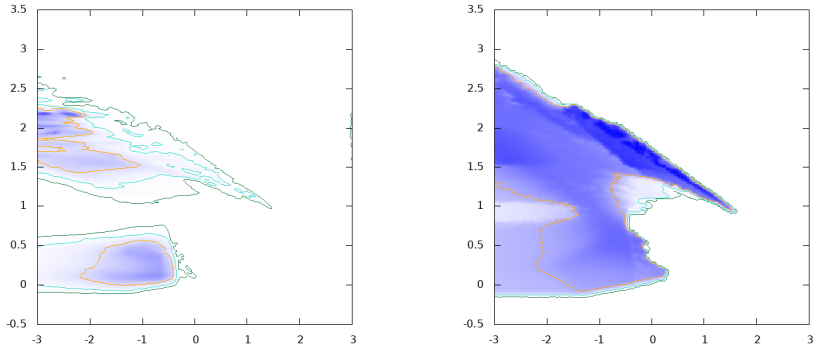
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 23: $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to tb)$ (fb) vs. $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to \mu^{\pm}\nu)$ (fb)



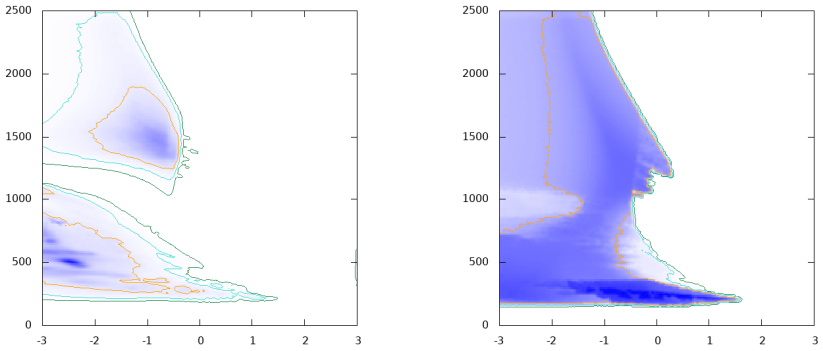
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 24: $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to HW^{\pm})$ (fb) vs. $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to \mu^{\pm}\nu)$ (fb)



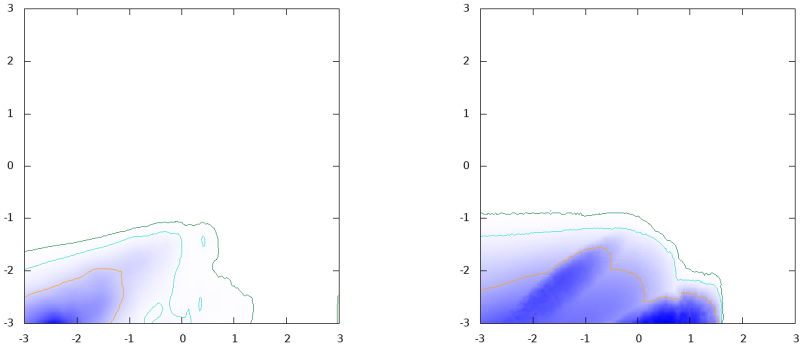
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 25: $\log_{10}\tan\beta$ vs. $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to \tau^{\pm}\nu)$ (fb)



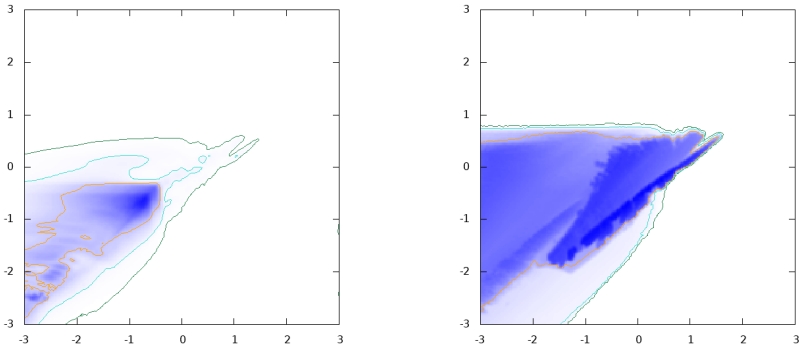
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 26: $m_{H^{\pm}}$ GeV vs. $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to \tau^{\pm}\nu)$ (fb)



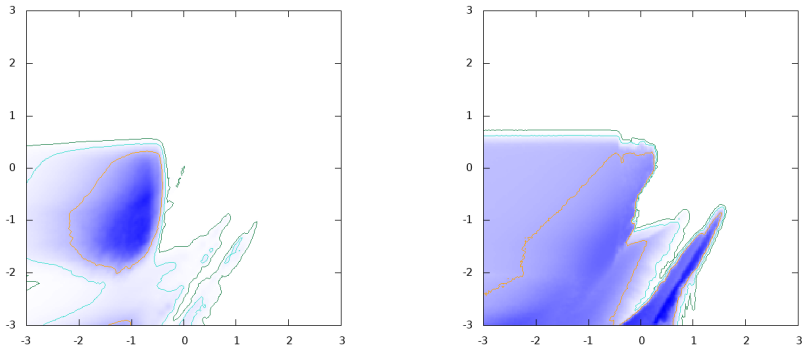
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 27: $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to e^{\pm}\nu)$ (fb) vs. $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to \tau^{\pm}\nu)$ (fb)



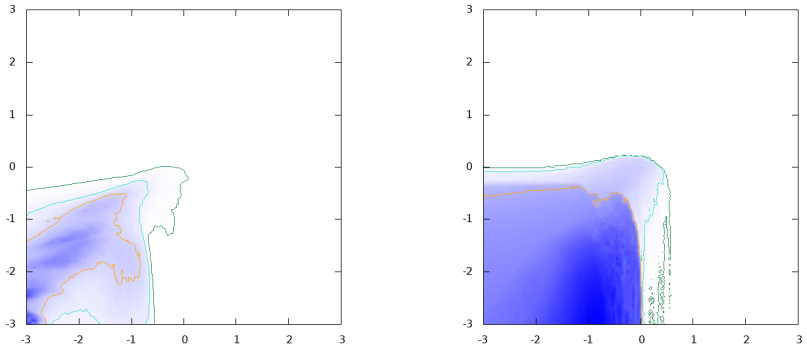
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 28: $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to \mu^{\pm}\nu)$ (fb) vs. $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to \tau^{\pm}\nu)$ (fb)



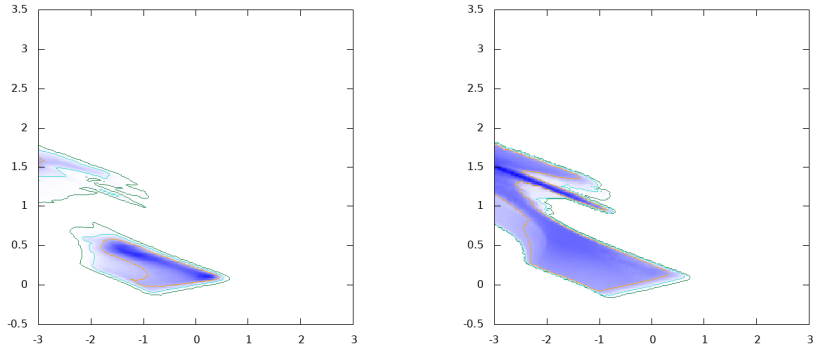
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 29: $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to tb)$ (fb) vs. $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to \tau^{\pm}\nu)$ (fb)



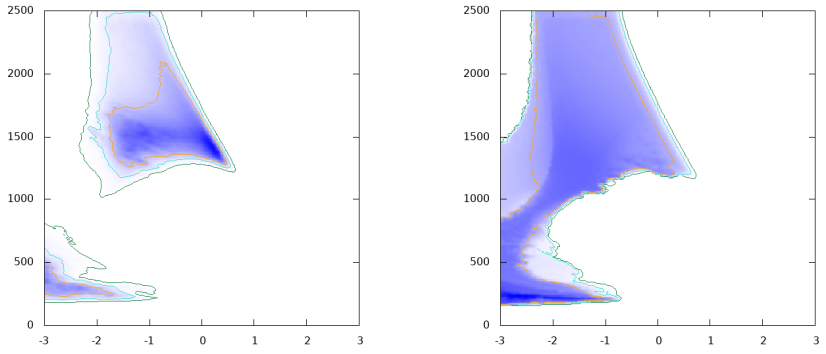
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 30: $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to HW^{\pm})$ (fb) vs. $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to \tau^{\pm}\nu)$ (fb)



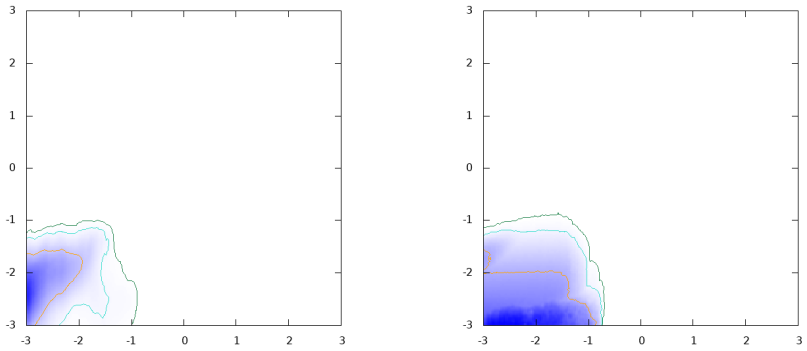
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 31: $\log_{10}\tan\beta$ vs. $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to tb)$ (fb)



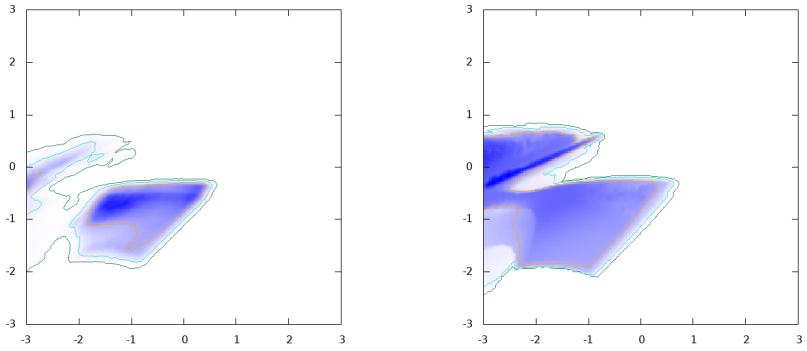
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 32: $m_{H^{\pm}}$ GeV vs. $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to tb)$ (fb)



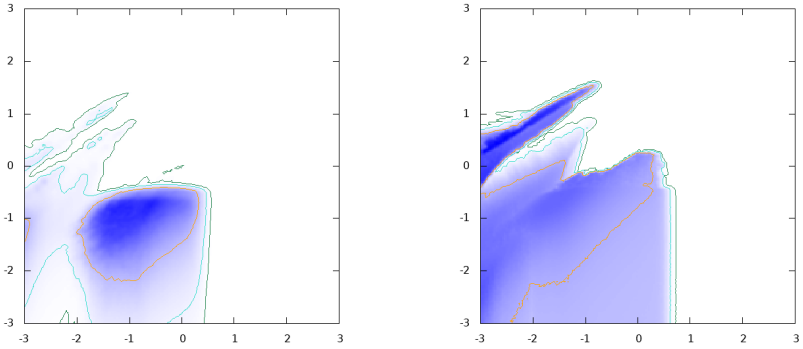
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 33: $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to e^{\pm}\nu)$ (fb) vs. $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to tb)$ (fb)



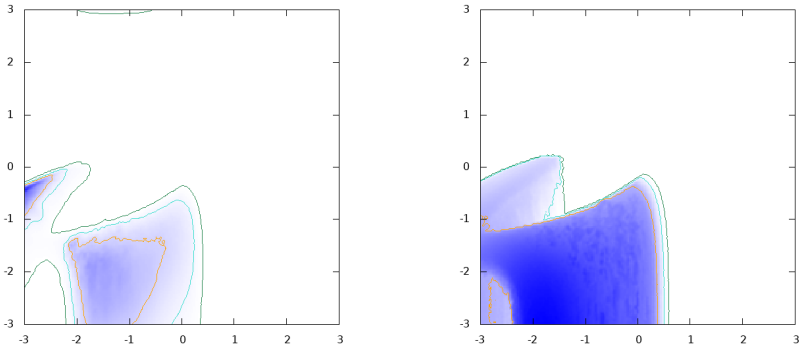
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 34: $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to \mu^{\pm}\nu)$ (fb) vs. $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to tb)$ (fb)



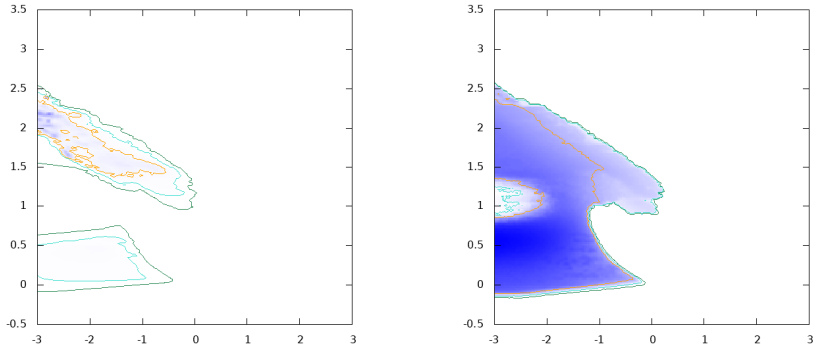
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 35: $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to \tau^{\pm}\nu)$ (fb) vs. $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to tb)$ (fb)



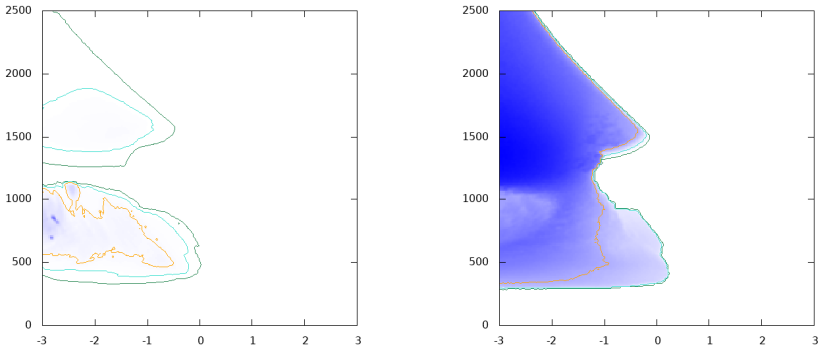
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 36: $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to HW^{\pm})$ (fb) vs. $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to tb)$ (fb)



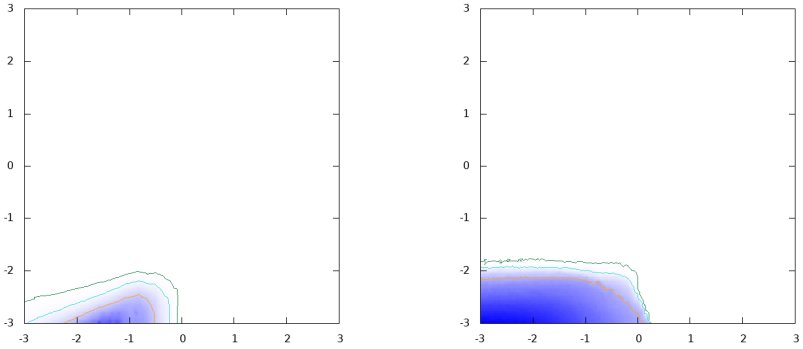
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 37: $\log_{10}\tan\beta$ vs. $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to HW^{\pm})$ (fb)



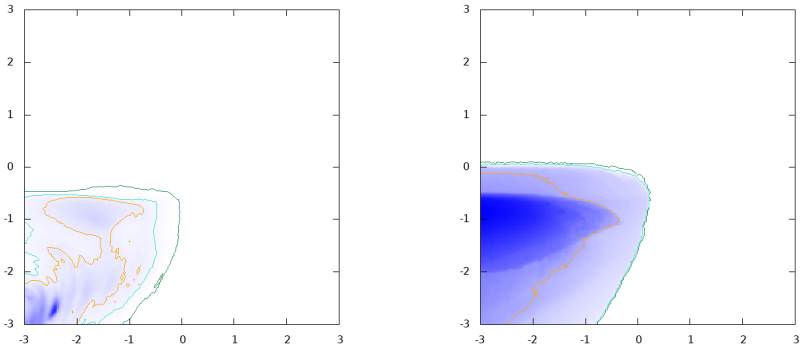
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 38: $m_{H^{\pm}}$ GeV vs. $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to HW^{\pm})$ (fb)



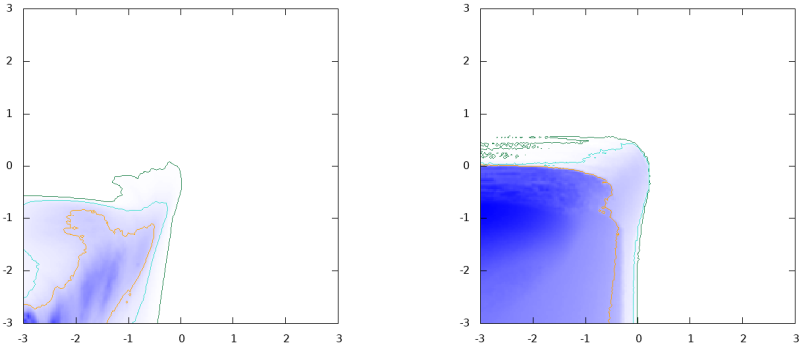
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 39: $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to e^{\pm}\nu)$ (fb) vs. $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to HW^{\pm})$ (fb)



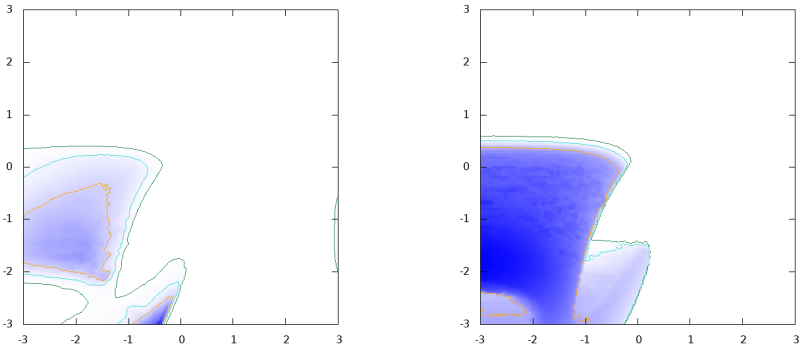
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 40: $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to \mu^{\pm}\nu)$ (fb) vs. $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to HW^{\pm})$ (fb)



(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 41: $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to \tau^{\pm}\nu)$ (fb) vs. $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to HW^{\pm})$ (fb)



(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 42: $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to tb)$ (fb) vs. $\log_{10}\sigma(pp \to H^{\pm}tb)(H^{\pm} \to HW^{\pm})$ (fb)