Two-dimensional plots - Summary group 4

February 21, 2022

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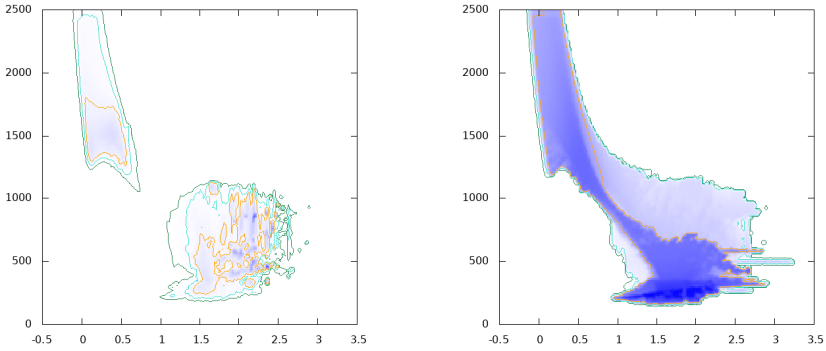

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Figure 1: $m_{H^\pm}$ GeV vs. $\log_{10}\tan\beta$

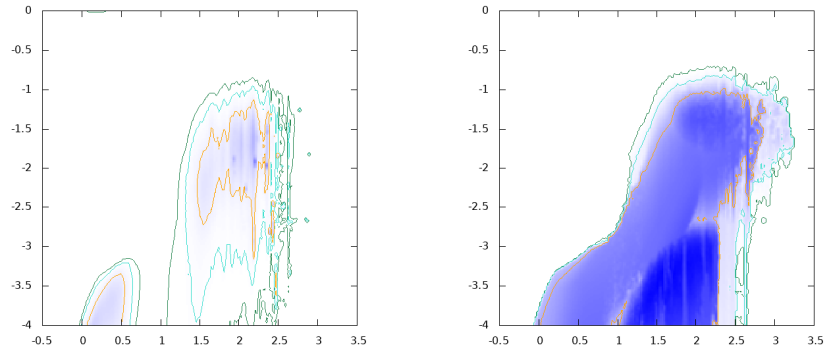

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Figure 2: $\log_{10}\mathrm{BR}(H^\pm \to e^\pm\nu)$ vs. $\log_{10}\tan\beta$

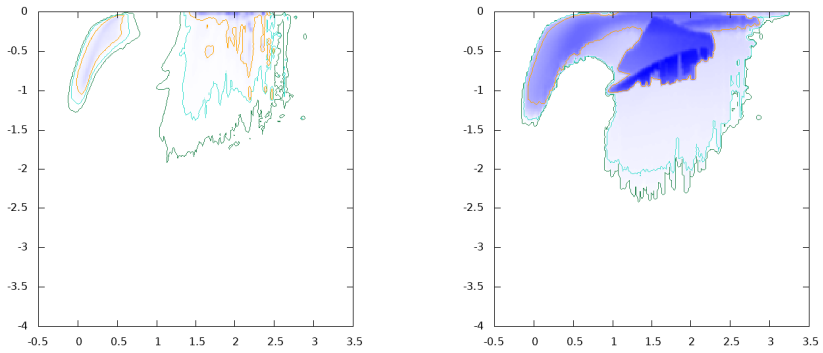

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Figure 3: $\log_{10}\mathrm{BR}(H^{\pm} \to \mu^{\pm}\nu)$ vs. $\log_{10}\tan\beta$

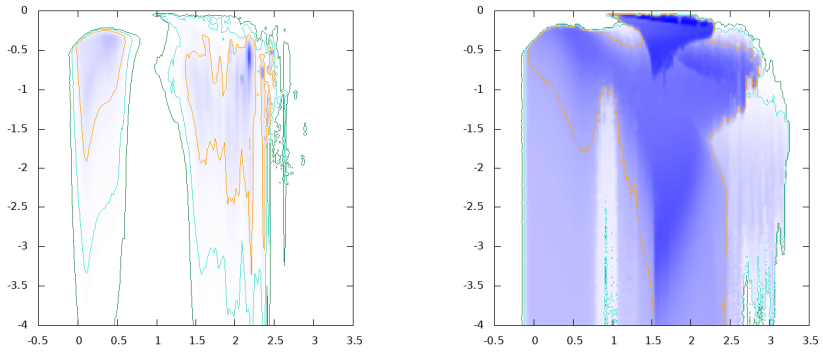

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Figure 4: $\log_{10}\mathrm{BR}(H^{\pm} \to \tau^{\pm}\nu)$ vs. $\log_{10}\tan\beta$

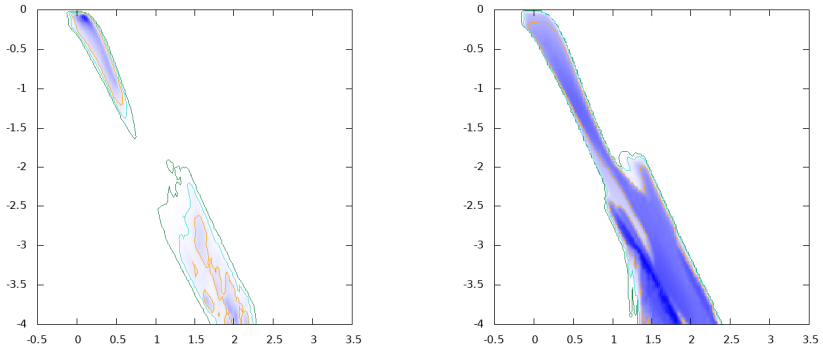

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Figure 5: $\log_{10}\mathrm{BR}(H^{\pm} \to tb)$ vs. $\log_{10}\tan\beta$

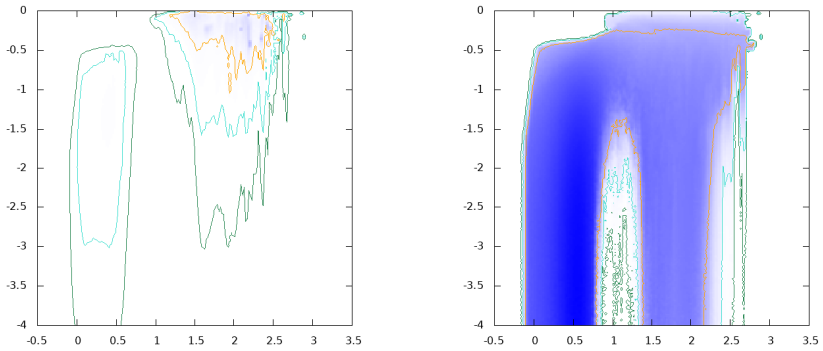

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Figure 6: $\log_{10}\mathrm{BR}(H^{\pm} \to HW^{\pm})$ vs. $\log_{10}\tan\beta$

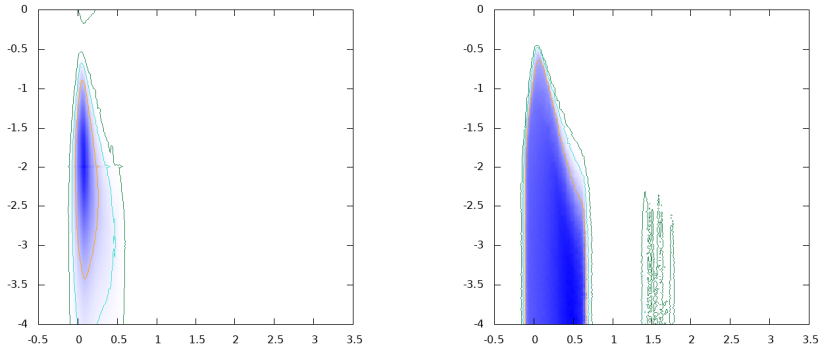

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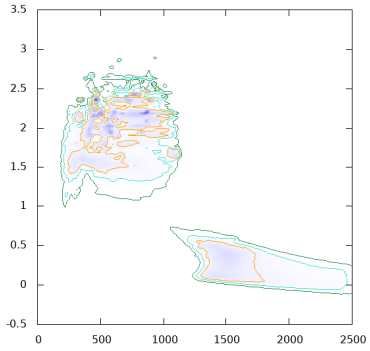
Figure 7: $\log_{10}\mathrm{BR}(H^{\pm} \to AW^{\pm})$ vs. $\log_{10}\tan\beta$



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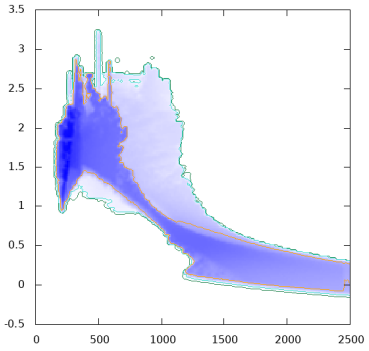

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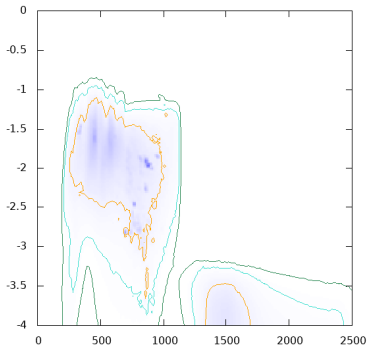
Figure 8: $\log_{10}\tan\beta$ vs. $m_{H^\pm}$ GeV



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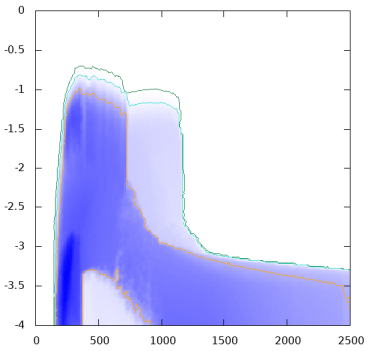

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Figure 9: $\log_{10}\mathrm{BR}(H^\pm \to e^\pm\nu)$ vs. $m_{H^\pm}$ GeV

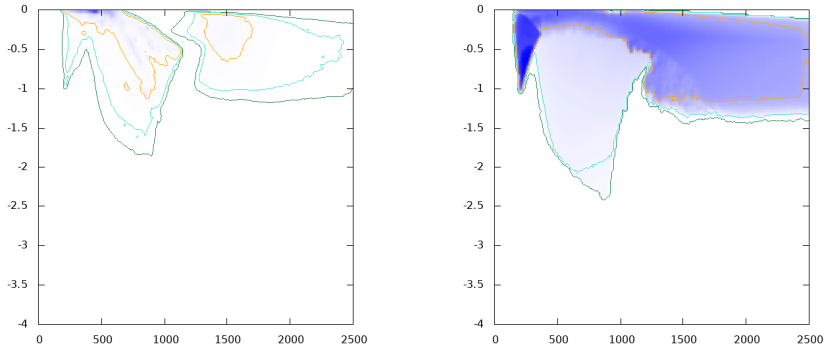

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Figure 10: $\log_{10}\mathrm{BR}(H^{\pm} \to \mu^{\pm}\nu)$ vs. $m_{H^{\pm}}$ GeV

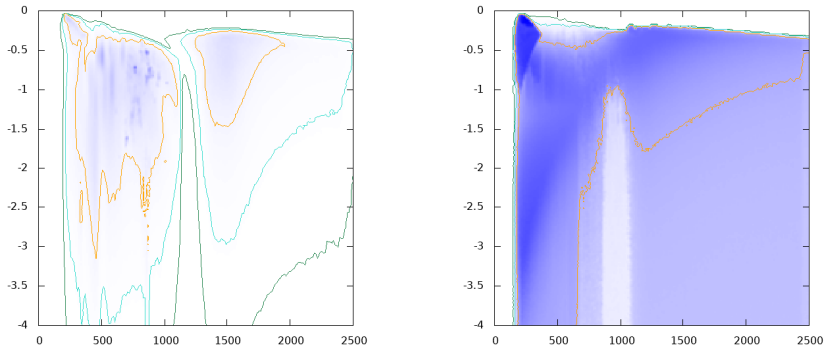

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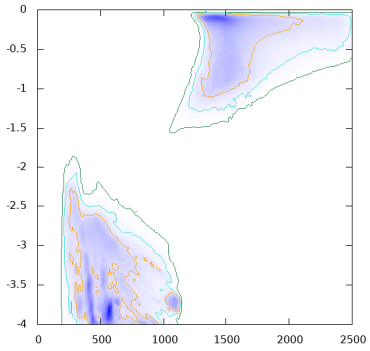
Figure 11: $\log_{10}\mathrm{BR}(H^{\pm} \to \tau^{\pm}\nu)$ vs. $m_{H^{\pm}}$ GeV



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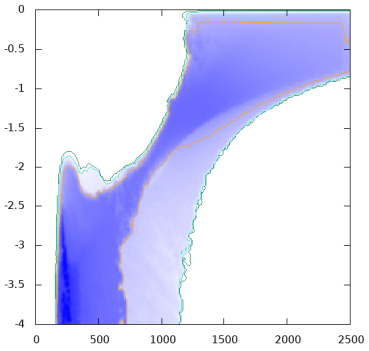

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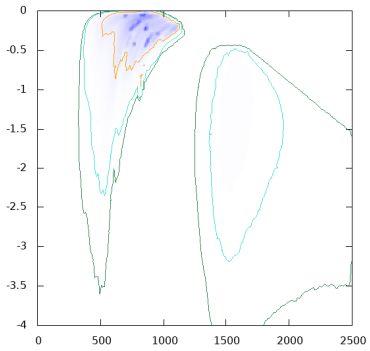
Figure 12: $\log_{10}\mathrm{BR}(H^{\pm} \to tb)$ vs. $m_{H^{\pm}}$ GeV



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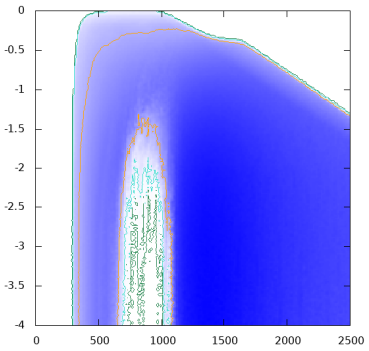

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Figure 13: $\log_{10}\mathrm{BR}(H^{\pm} \to HW^{\pm})$ vs. $m_{H^{\pm}}$ GeV

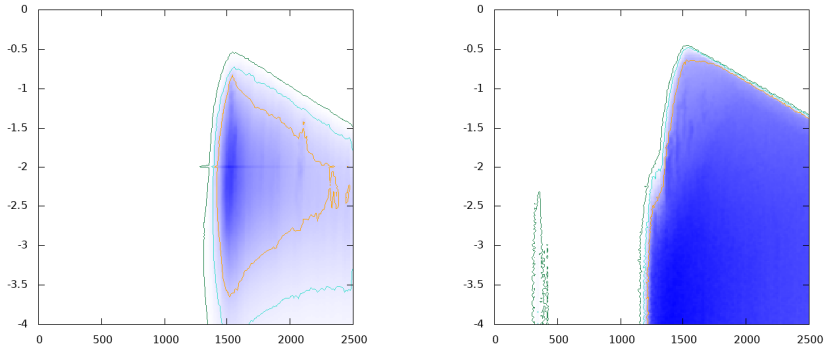

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Figure 14: $\log_{10}\mathrm{BR}(H^{\pm} \to AW^{\pm})$ vs. $m_{H^{\pm}}$ GeV

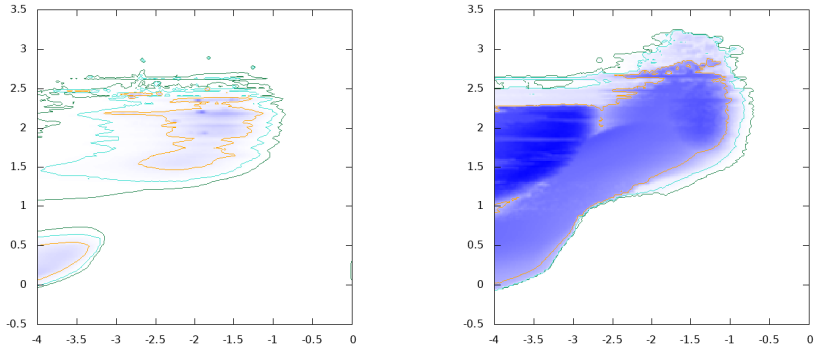

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Figure 15: $\log_{10}\tan\beta$ vs. $\log_{10}\mathrm{BR}(H^{\pm}\to e^{\pm}\nu)$

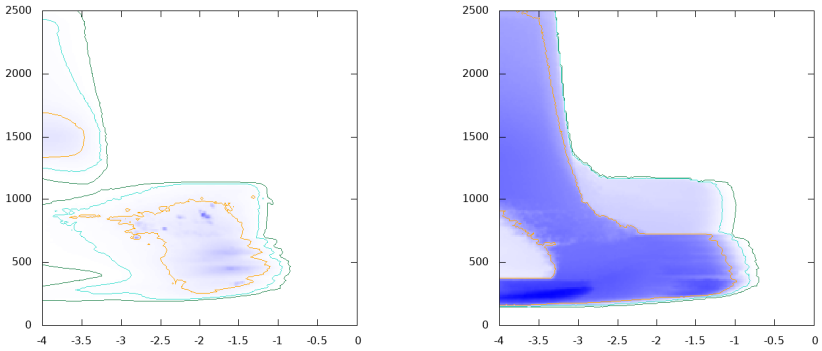

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Figure 16: $m_{H^{\pm}}$ GeV vs. $\log_{10}\mathrm{BR}(H^{\pm}\to e^{\pm}\nu)$

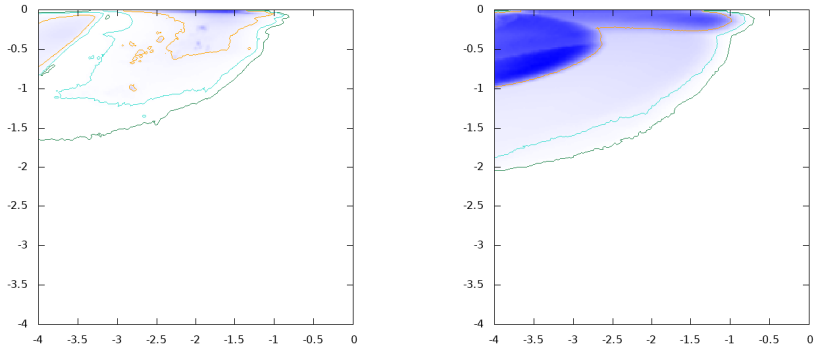

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Figure 17: $\log_{10}\mathrm{BR}(H^\pm \to \mu^\pm\nu)$ vs. $\log_{10}\mathrm{BR}(H^\pm \to e^\pm\nu)$

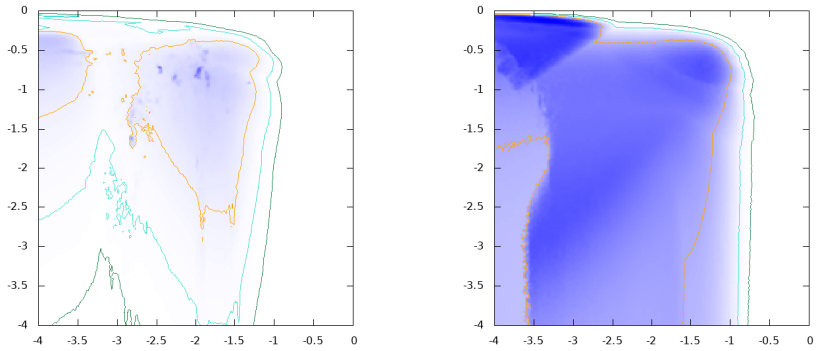

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Figure 18: $\log_{10}\mathrm{BR}(H^\pm \to \tau^\pm\nu)$ vs. $\log_{10}\mathrm{BR}(H^\pm \to e^\pm\nu)$

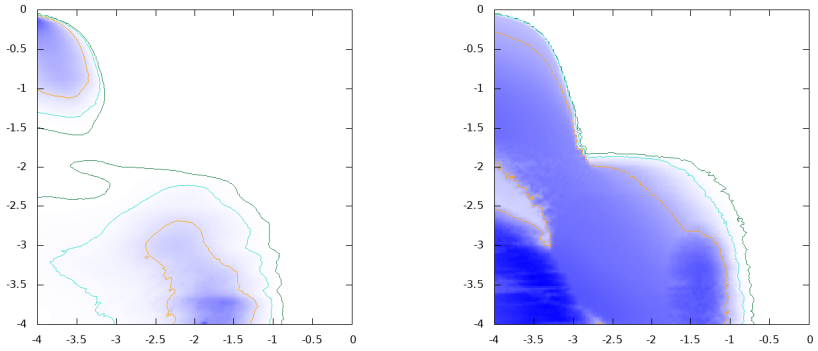

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Figure 19: $\log_{10}\mathrm{BR}(H^{\pm} \to tb)$ vs. $\log_{10}\mathrm{BR}(H^{\pm} \to e^{\pm}\nu)$

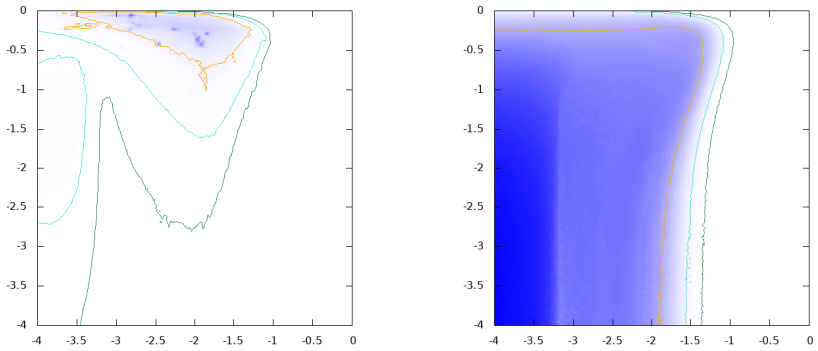

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Figure 20: $\log_{10}\mathrm{BR}(H^{\pm} \to HW^{\pm})$ vs. $\log_{10}\mathrm{BR}(H^{\pm} \to e^{\pm}\nu)$

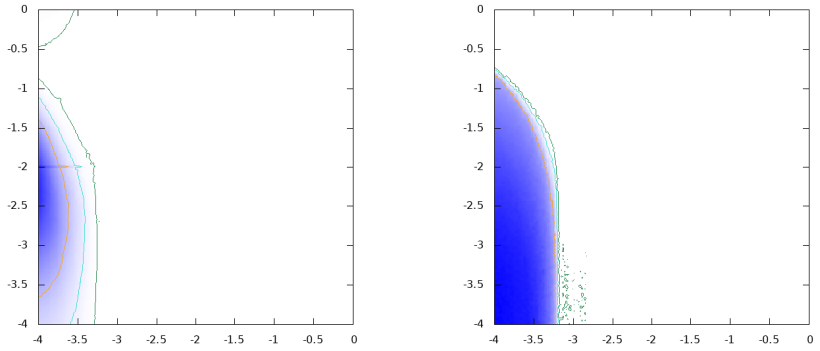

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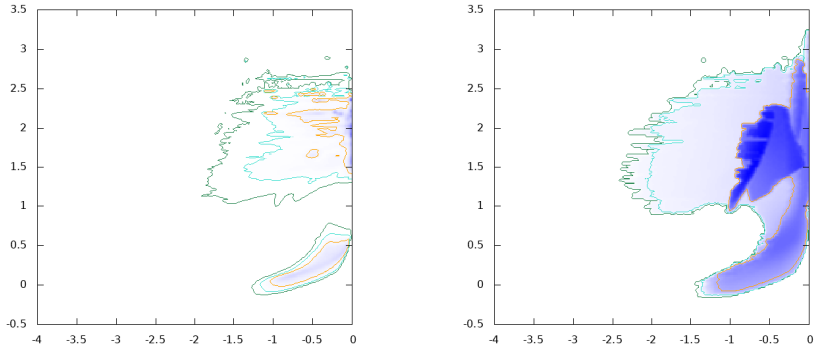
Figure 21: $\log_{10}\mathrm{BR}(H^{\pm} \to AW^{\pm})$ vs. $\log_{10}\mathrm{BR}(H^{\pm} \to e^{\pm}\nu)$



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

Figure 22: $\log_{10}\tan\beta$ vs. $\log_{10}\mathrm{BR}(H^{\pm}\to\mu^{\pm}\nu)$

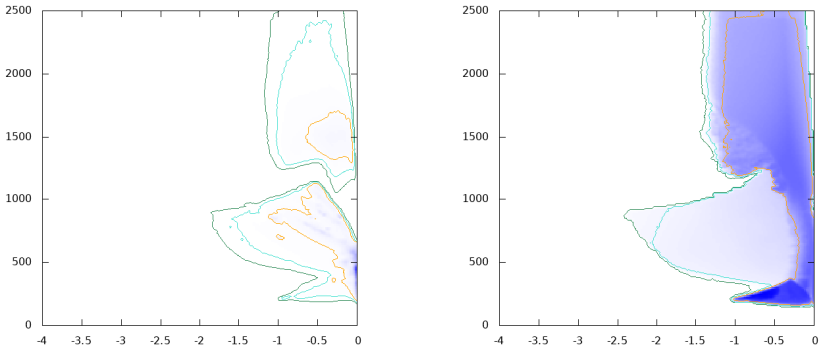


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Figure 23: $m_{H^{\pm}}$ GeV vs. $\log_{10}\mathrm{BR}(H^{\pm}\to\mu^{\pm}\nu)$

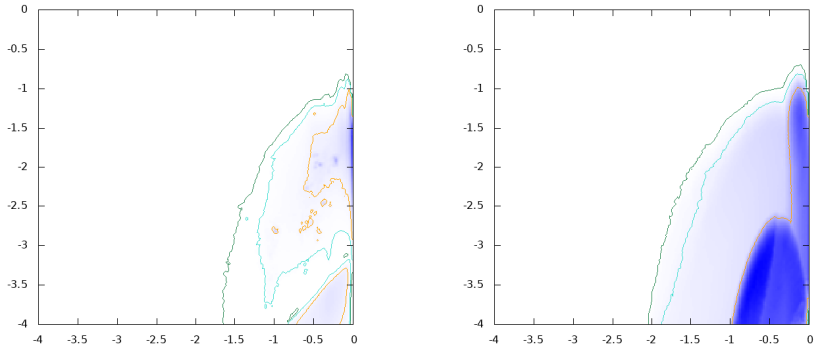

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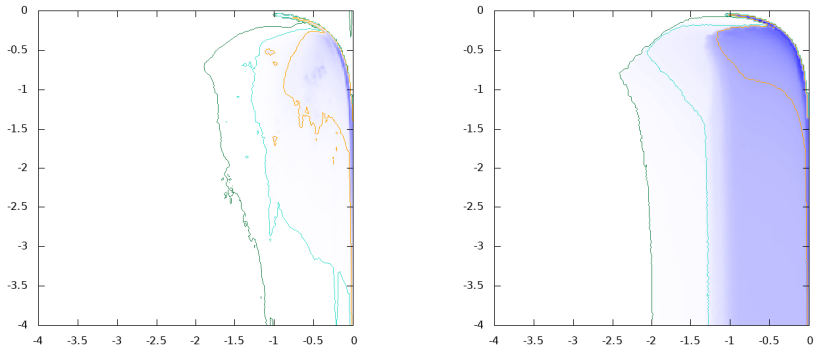
Figure 24: $\log_{10}\mathrm{BR}(H^{\pm} \to e^{\pm}\nu)$ vs. $\log_{10}\mathrm{BR}(H^{\pm} \to \mu^{\pm}\nu)$



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

Figure 25: $\log_{10}\mathrm{BR}(H^{\pm} \to \tau^{\pm}\nu)$ vs. $\log_{10}\mathrm{BR}(H^{\pm} \to \mu^{\pm}\nu)$

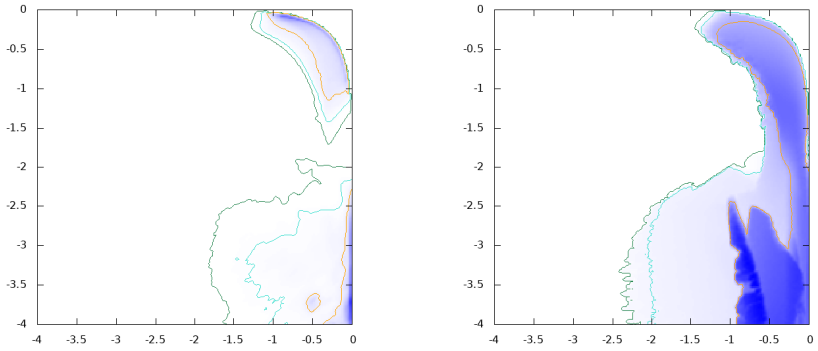


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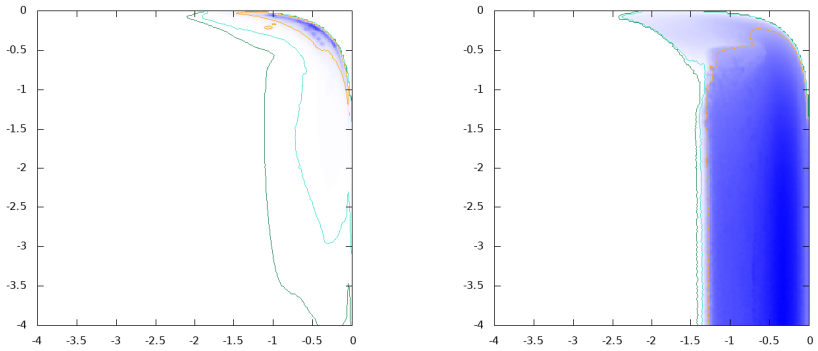
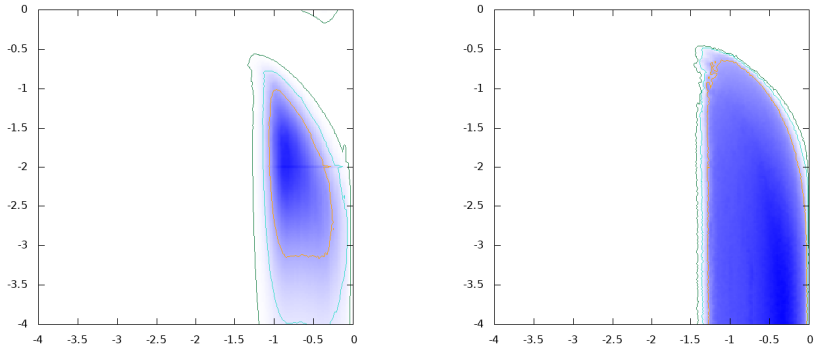
Figure 26: $\log_{10}\mathrm{BR}(H^{\pm} \to tb)$ vs. $\log_{10}\mathrm{BR}(H^{\pm} \to \mu^{\pm}\nu)$



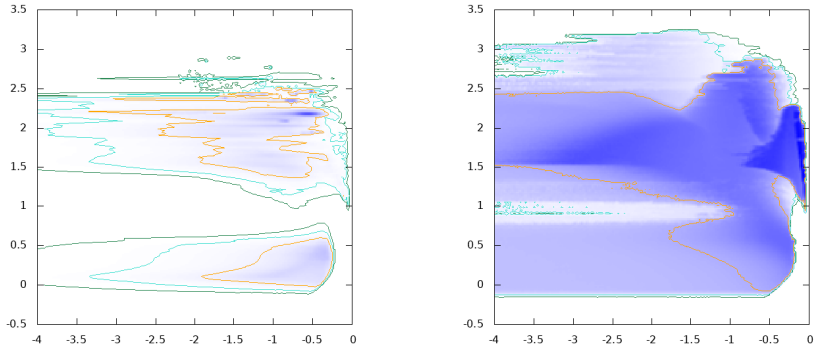
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 27: $\log_{10}\mathrm{BR}(H^{\pm} \to HW^{\pm})$ vs. $\log_{10}\mathrm{BR}(H^{\pm} \to \mu^{\pm}\nu)$



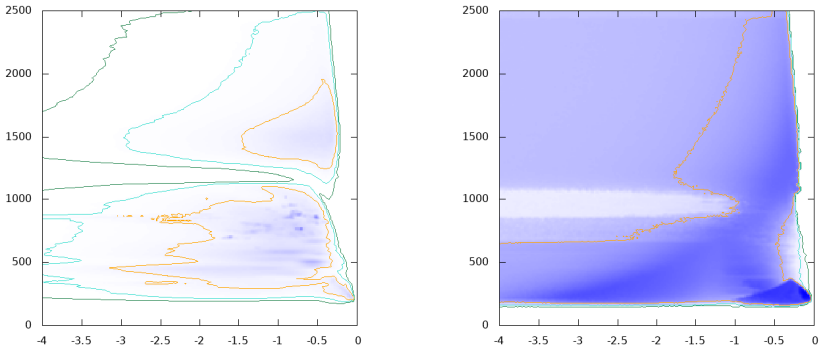
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 28: $\log_{10}\mathrm{BR}(H^{\pm} \to AW^{\pm})$ vs. $\log_{10}\mathrm{BR}(H^{\pm} \to \mu^{\pm}\nu)$



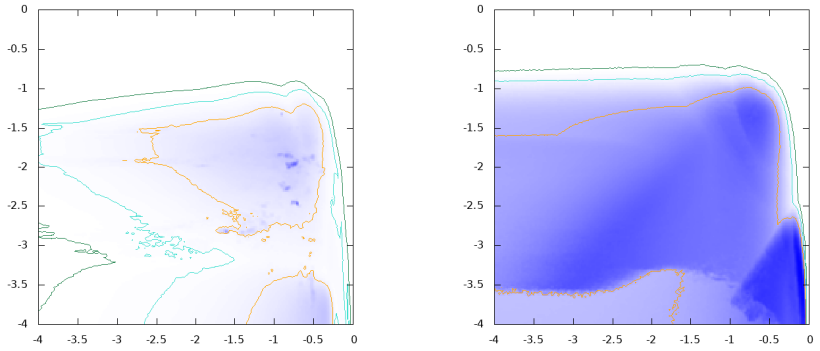
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 29: $\log_{10}\tan\beta$ vs. $\log_{10}\mathrm{BR}(H^{\pm}\to\tau^{\pm}\nu)$



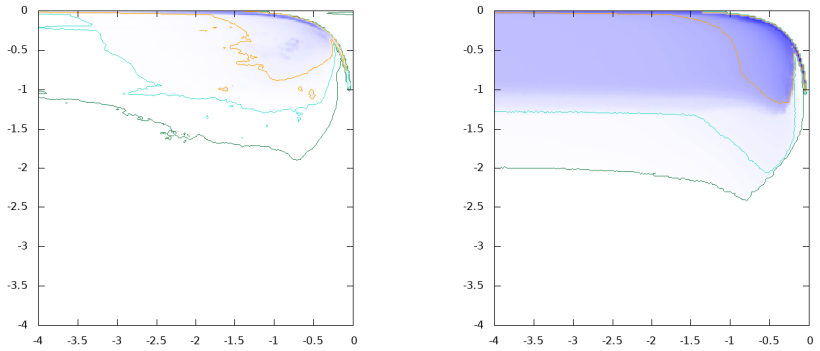
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 30: $m_{H^{\pm}}$ GeV vs. $\log_{10}\mathrm{BR}(H^{\pm}\to\tau^{\pm}\nu)$



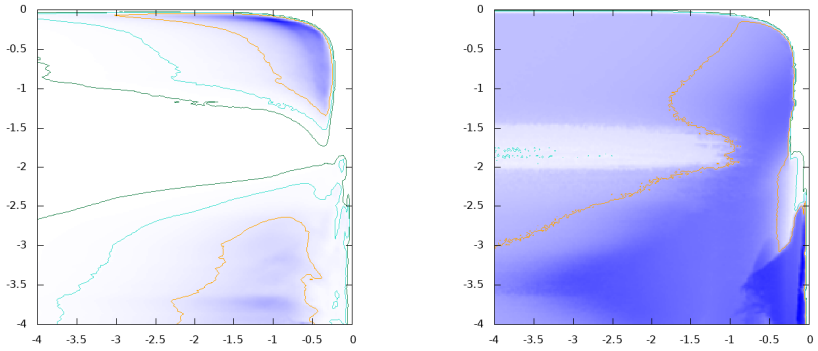
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 31: $\log_{10}\mathrm{BR}(H^{\pm} \to e^{\pm}\nu)$ vs. $\log_{10}\mathrm{BR}(H^{\pm} \to \tau^{\pm}\nu)$



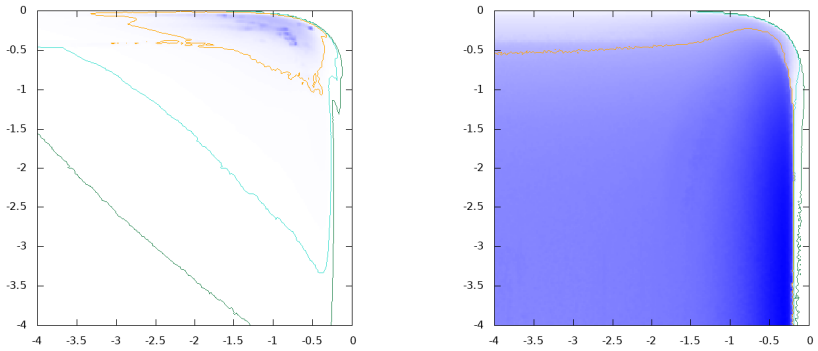
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 32: $\log_{10}\mathrm{BR}(H^{\pm} \to \mu^{\pm}\nu)$ vs. $\log_{10}\mathrm{BR}(H^{\pm} \to \tau^{\pm}\nu)$



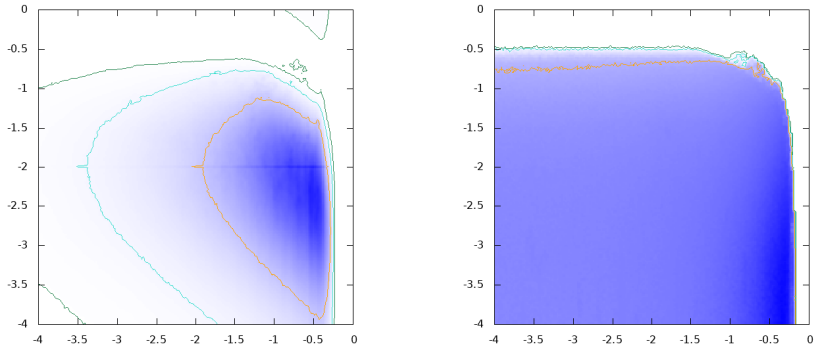
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 33: $\log_{10}\mathrm{BR}(H^{\pm} \to tb)$ vs. $\log_{10}\mathrm{BR}(H^{\pm} \to \tau^{\pm}\nu)$



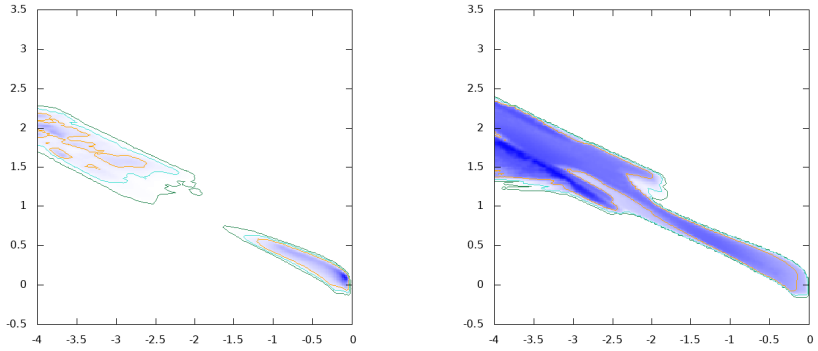
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 34: $\log_{10}\mathrm{BR}(H^{\pm} \to HW^{\pm})$ vs. $\log_{10}\mathrm{BR}(H^{\pm} \to \tau^{\pm}\nu)$



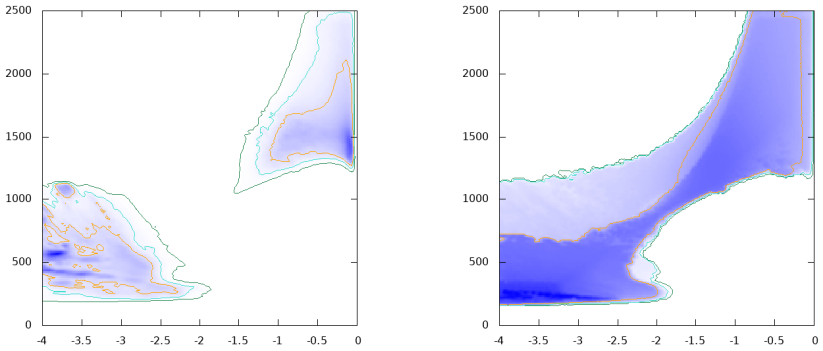
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 35: $\log_{10}\mathrm{BR}(H^{\pm} \to AW^{\pm})$ vs. $\log_{10}\mathrm{BR}(H^{\pm} \to \tau^{\pm}\nu)$



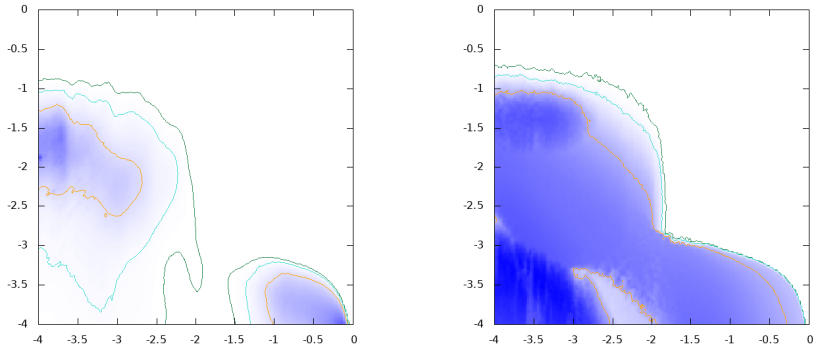
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 36: $\log_{10}\tan\beta$ vs. $\log_{10}\mathrm{BR}(H^{\pm}\to tb)$



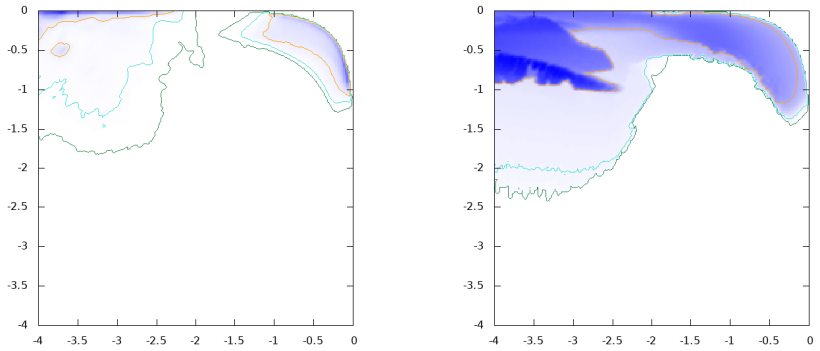
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 37: $m_{H^{\pm}}$ GeV vs. $\log_{10}\mathrm{BR}(H^{\pm}\to tb)$



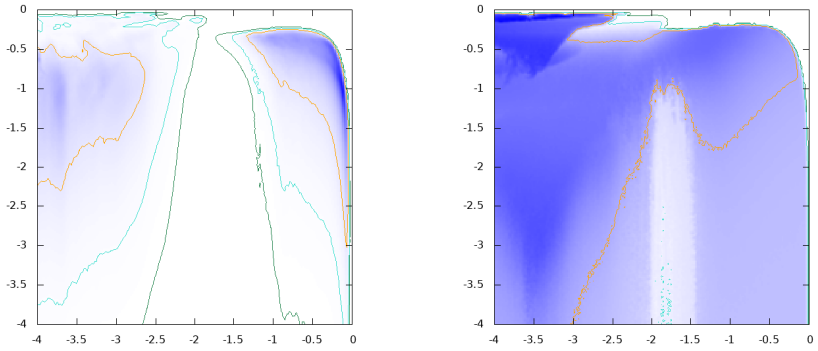
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 38: $\log_{10}\mathrm{BR}(H^{\pm} \to e^{\pm}\nu)$ vs. $\log_{10}\mathrm{BR}(H^{\pm} \to tb)$



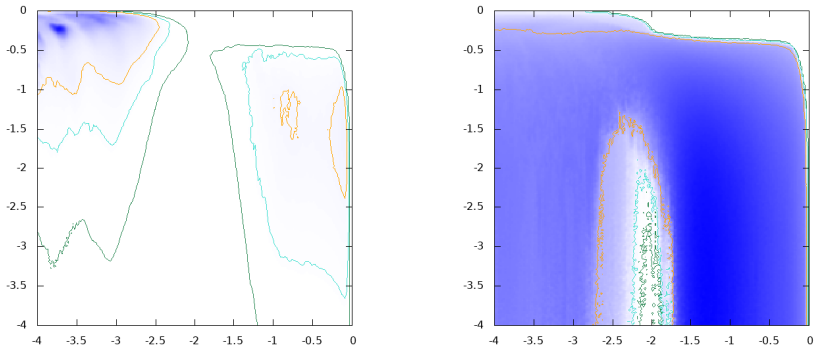
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 39: $\log_{10}\mathrm{BR}(H^{\pm} \to \mu^{\pm}\nu)$ vs. $\log_{10}\mathrm{BR}(H^{\pm} \to tb)$



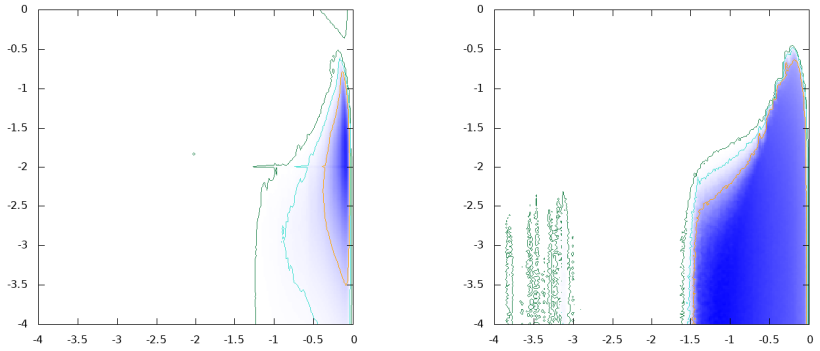
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 40: $\log_{10}\mathrm{BR}(H^{\pm} \to \tau^{\pm}\nu)$ vs. $\log_{10}\mathrm{BR}(H^{\pm} \to tb)$



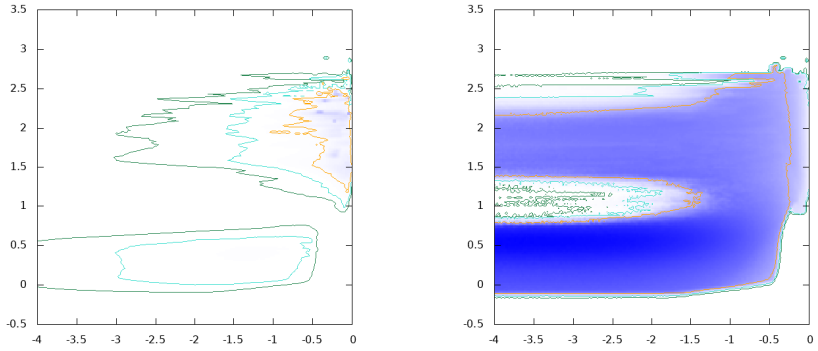
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 41: $\log_{10}\mathrm{BR}(H^{\pm} \to HW^{\pm})$ vs. $\log_{10}\mathrm{BR}(H^{\pm} \to tb)$



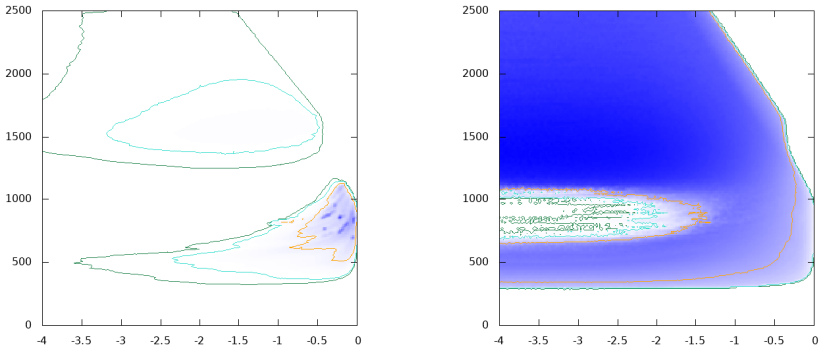
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 42: $\log_{10}\mathrm{BR}(H^{\pm} \to AW^{\pm})$ vs. $\log_{10}\mathrm{BR}(H^{\pm} \to tb)$



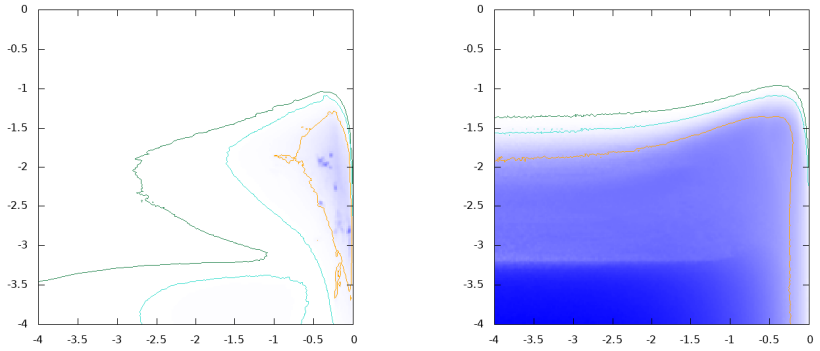
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 43: $\log_{10}\tan\beta$ vs. $\log_{10}\mathrm{BR}(H^{\pm} \to HW^{\pm})$



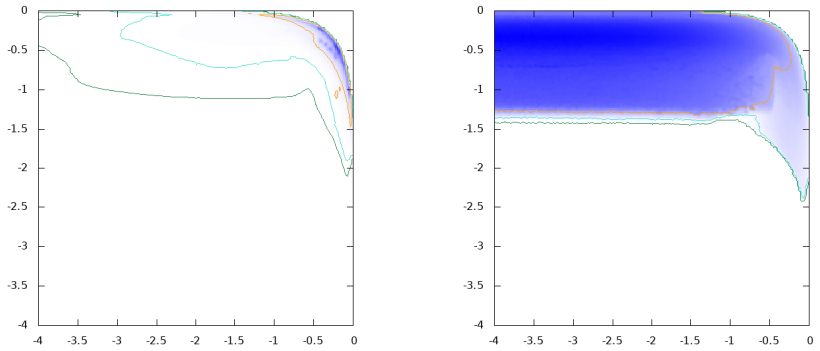
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 44: $m_{H^{\pm}}$ GeV vs. $\log_{10}\mathrm{BR}(H^{\pm} \to HW^{\pm})$



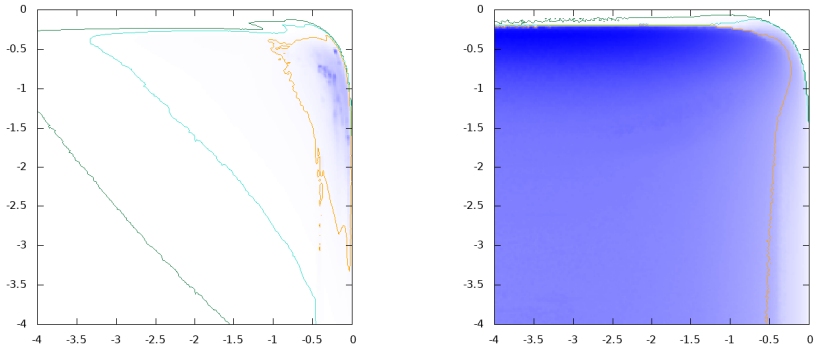
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 45: $\log_{10}\mathrm{BR}(H^{\pm} \to e^{\pm}\nu)$ vs. $\log_{10}\mathrm{BR}(H^{\pm} \to HW^{\pm})$



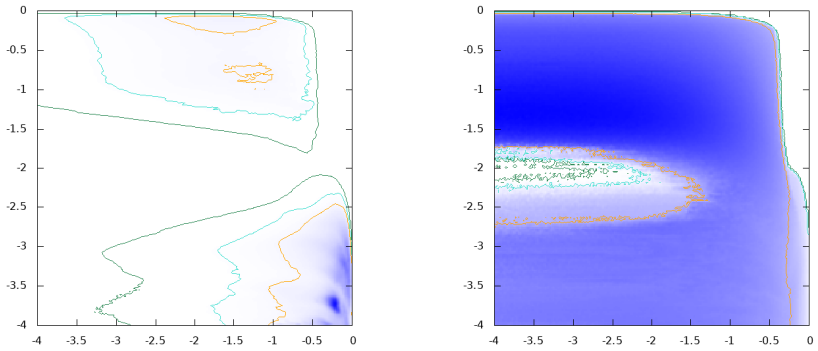
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 46: $\log_{10}\mathrm{BR}(H^{\pm} \to \mu^{\pm}\nu)$ vs. $\log_{10}\mathrm{BR}(H^{\pm} \to HW^{\pm})$



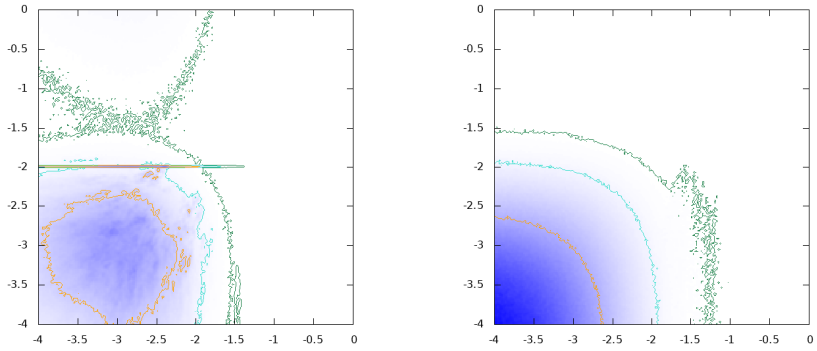
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 47: $\log_{10}\mathrm{BR}(H^{\pm} \to \tau^{\pm}\nu)$ vs. $\log_{10}\mathrm{BR}(H^{\pm} \to HW^{\pm})$



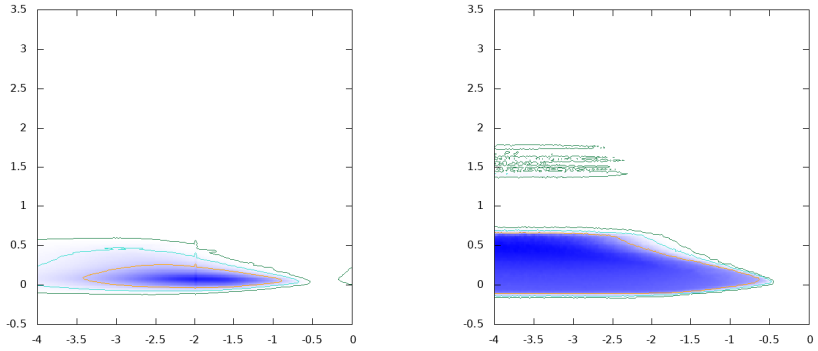
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 48: $\log_{10}\mathrm{BR}(H^{\pm} \to tb)$ vs. $\log_{10}\mathrm{BR}(H^{\pm} \to HW^{\pm})$



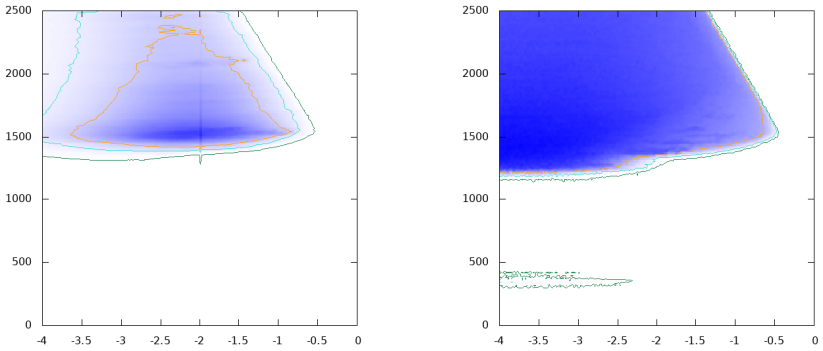
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 49: $\log_{10}\mathrm{BR}(H^{\pm} \to AW^{\pm})$ vs. $\log_{10}\mathrm{BR}(H^{\pm} \to HW^{\pm})$



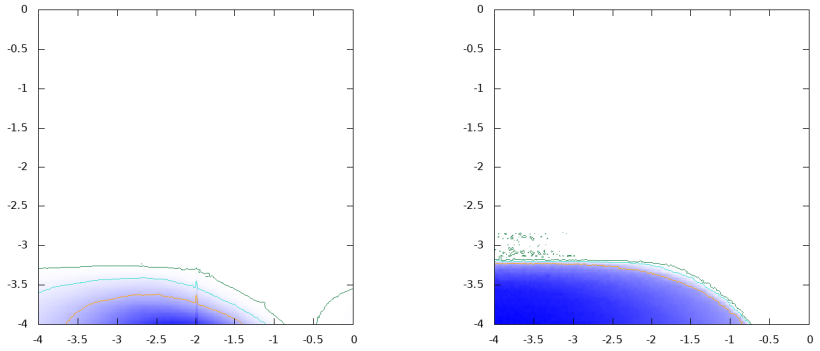
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 50: $\log_{10}\tan\beta$ vs. $\log_{10}\mathrm{BR}(H^{\pm} \to AW^{\pm})$



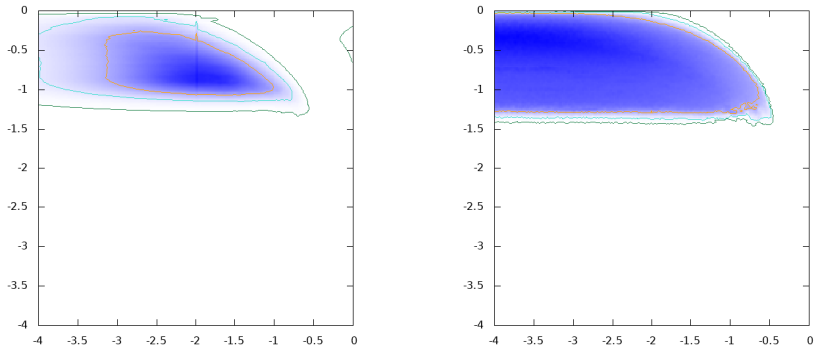
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 51: $m_{H^{\pm}}$ GeV vs. $\log_{10}\mathrm{BR}(H^{\pm} \to AW^{\pm})$



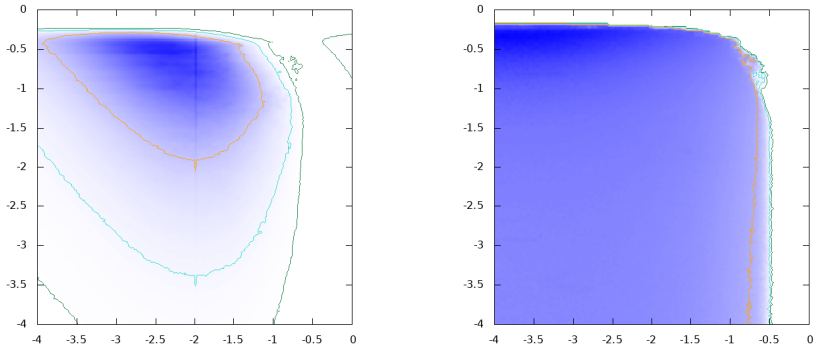
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 52: $\log_{10}\mathrm{BR}(H^{\pm} \to e^{\pm}\nu)$ vs. $\log_{10}\mathrm{BR}(H^{\pm} \to AW^{\pm})$



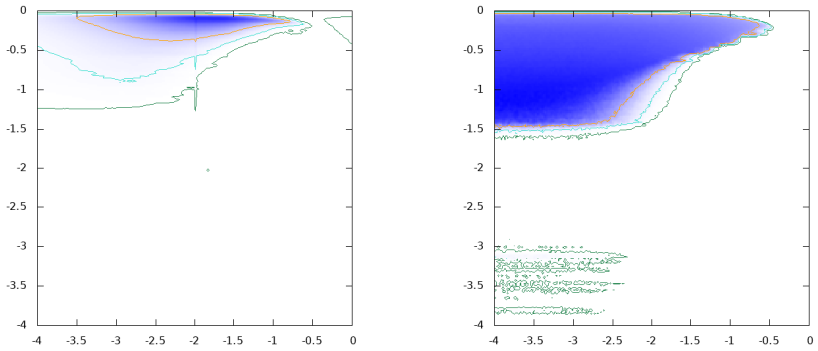
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 53: $\log_{10}\mathrm{BR}(H^{\pm} \to \mu^{\pm}\nu)$ vs. $\log_{10}\mathrm{BR}(H^{\pm} \to AW^{\pm})$



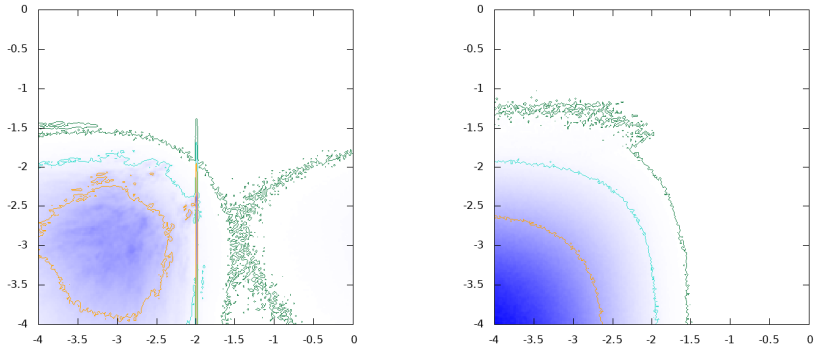
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 54: $\log_{10}\mathrm{BR}(H^{\pm} \to \tau^{\pm}\nu)$ vs. $\log_{10}\mathrm{BR}(H^{\pm} \to AW^{\pm})$



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

Figure 55: $\log_{10}\mathrm{BR}(H^{\pm} \to tb)$ vs. $\log_{10}\mathrm{BR}(H^{\pm} \to AW^{\pm})$



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

Figure 56: $\log_{10}\mathrm{BR}(H^{\pm} \to HW^{\pm})$ vs. $\log_{10}\mathrm{BR}(H^{\pm} \to AW^{\pm})$