

Two-dimensional plots - Summary group 6

February 21, 2022

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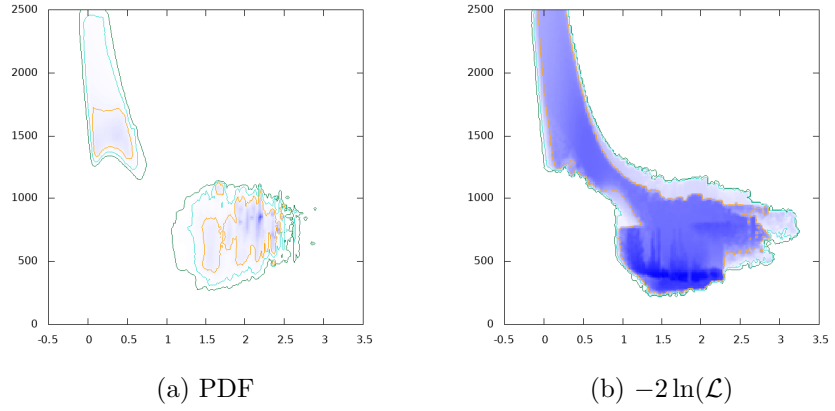


Figure 1: m_A GeV vs. $\log_{10} \tan \beta$

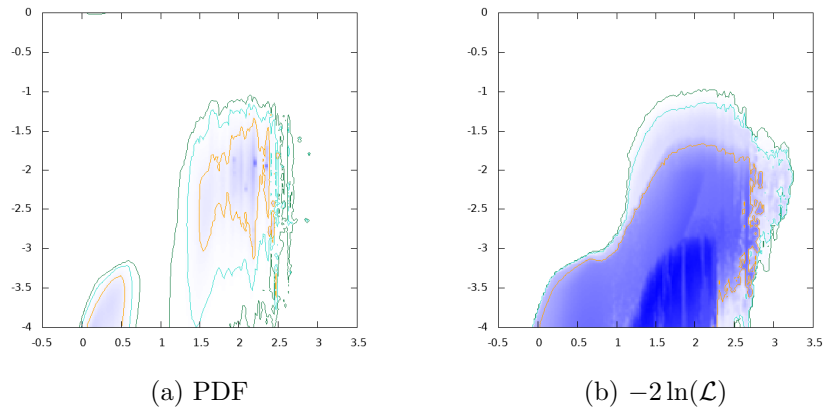
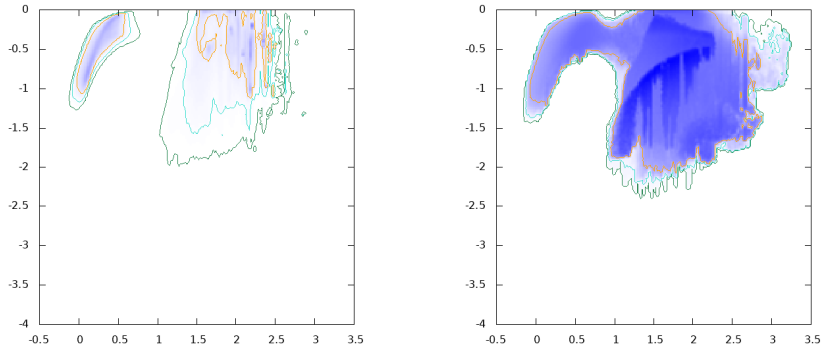


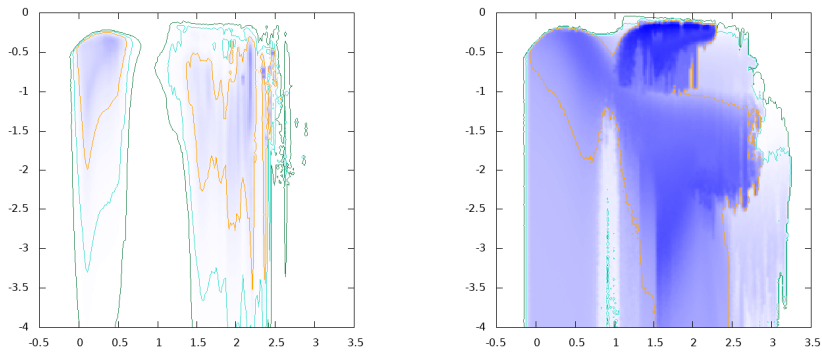
Figure 2: $\log_{10} \text{BR}(A \rightarrow e^+e^-)$ vs. $\log_{10} \tan \beta$



(a) PDF

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

Figure 3: $\log_{10} \text{BR}(A \rightarrow \mu^+ \mu^-)$ vs. $\log_{10} \tan \beta$



(a) PDF

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

Figure 4: $\log_{10} \text{BR}(A \rightarrow \tau^+ \tau^-)$ vs. $\log_{10} \tan \beta$

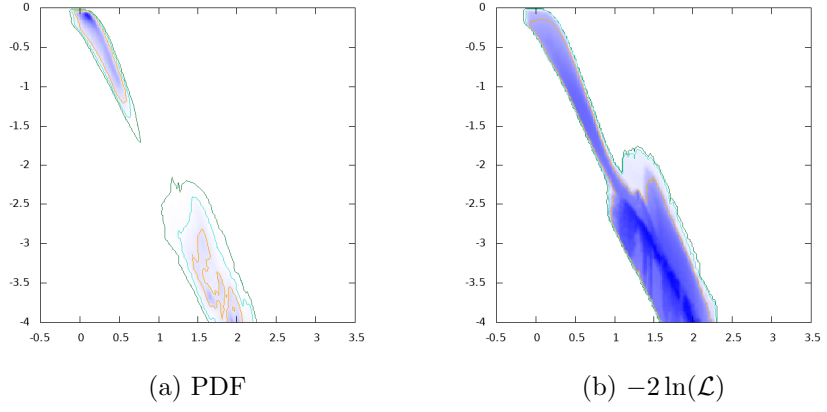


Figure 5: $\log_{10}\text{BR}(A \rightarrow \bar{t}t)$ vs. $\log_{10} \tan \beta$

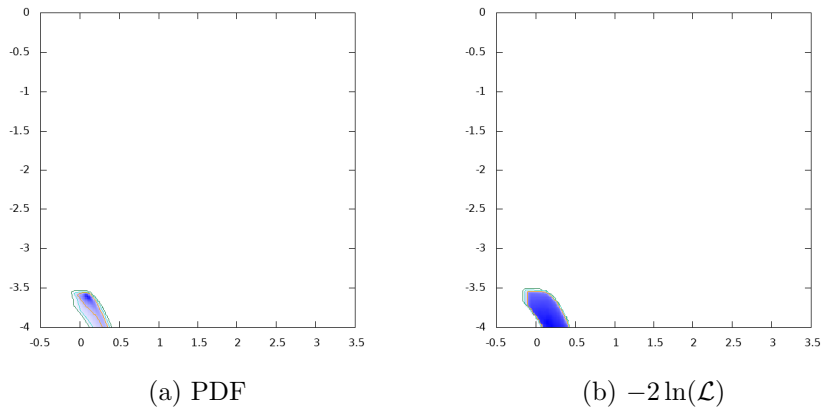


Figure 6: $\log_{10}\text{BR}(A \rightarrow \bar{b}b)$ vs. $\log_{10} \tan \beta$

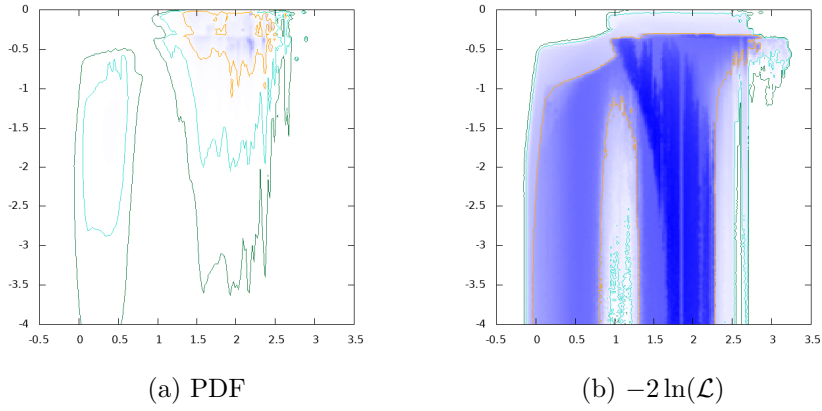


Figure 7: $\log_{10}\text{BR}(A \rightarrow HZ)$ vs. $\log_{10} \tan \beta$

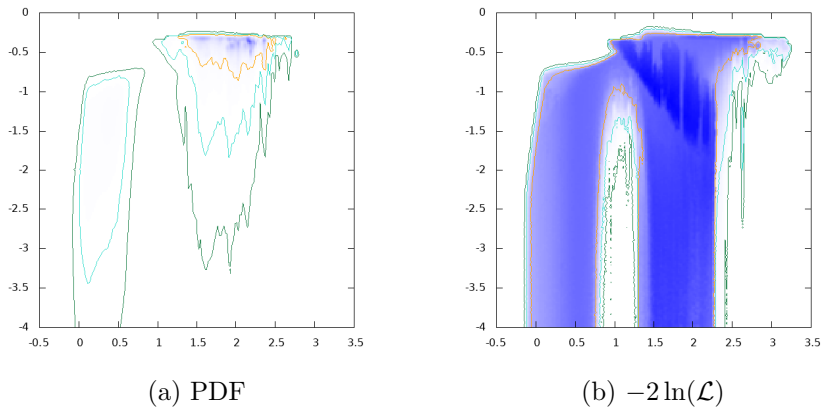


Figure 8: $\log_{10}\text{BR}(A \rightarrow H^\pm W^\mp)$ vs. $\log_{10} \tan \beta$

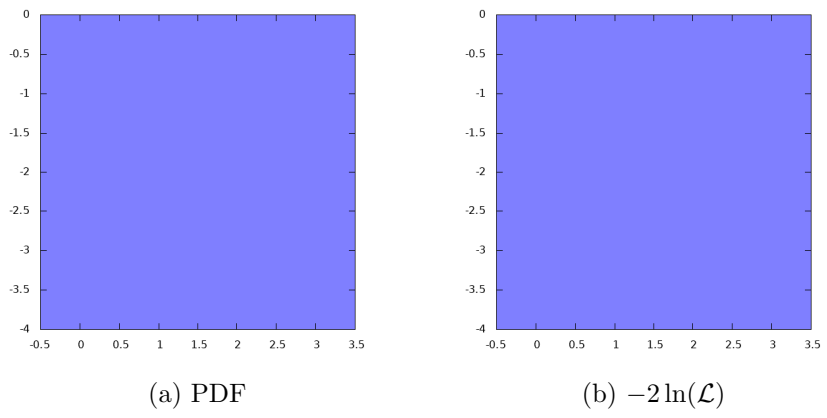


Figure 9: $\log_{10}\text{BR}(A \rightarrow SS)$ vs. $\log_{10} \tan \beta$

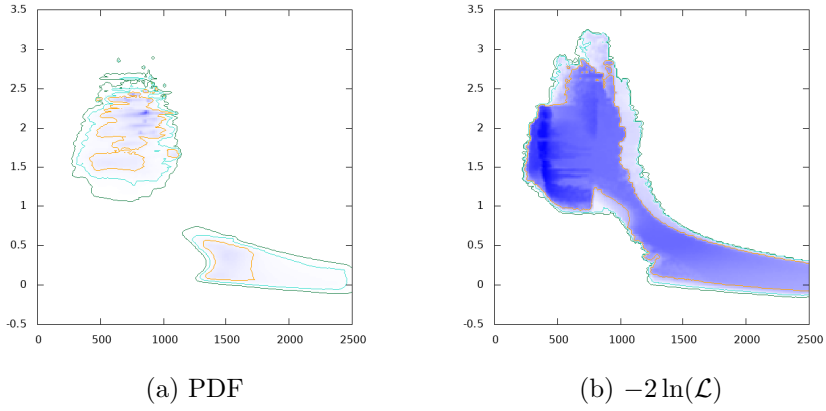


Figure 10: $\log_{10} \tan \beta$ vs. m_A GeV

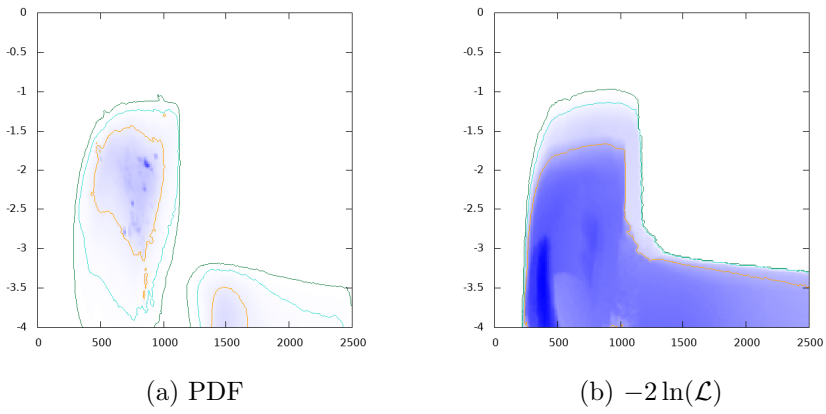


Figure 11: $\log_{10} \text{BR}(A \rightarrow e^+e^-)$ vs. m_A GeV

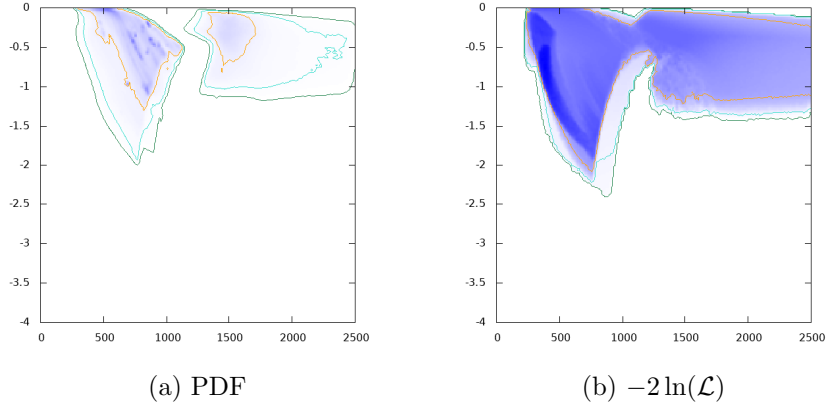


Figure 12: $\log_{10}\text{BR}(A \rightarrow \mu^+\mu^-)$ vs. m_A GeV

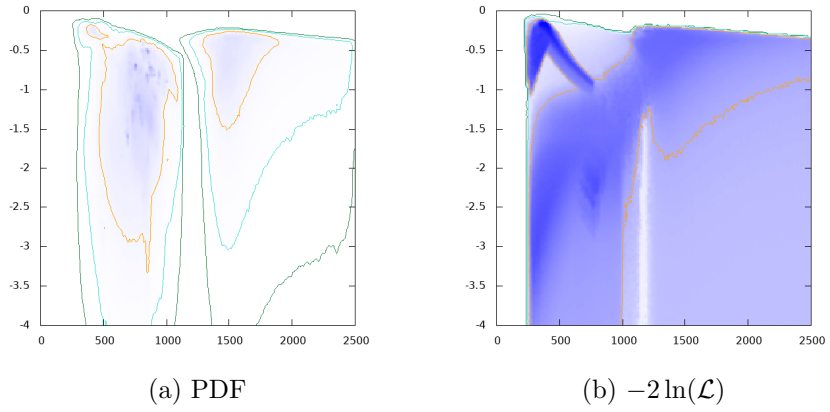


Figure 13: $\log_{10}\text{BR}(A \rightarrow \tau^+\tau^-)$ vs. m_A GeV

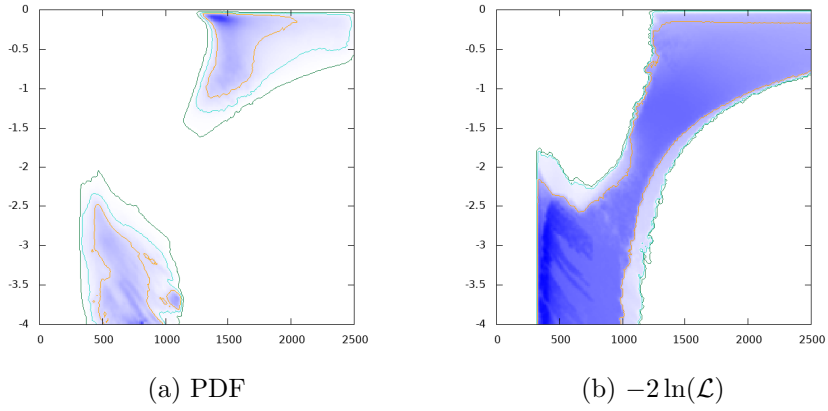


Figure 14: $\log_{10}\text{BR}(A \rightarrow \bar{t}t)$ vs. m_A GeV

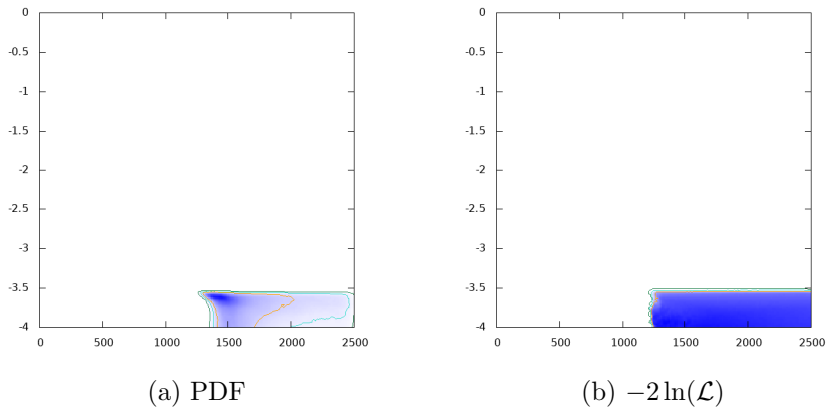


Figure 15: $\log_{10}\text{BR}(A \rightarrow \bar{b}b)$ vs. m_A GeV

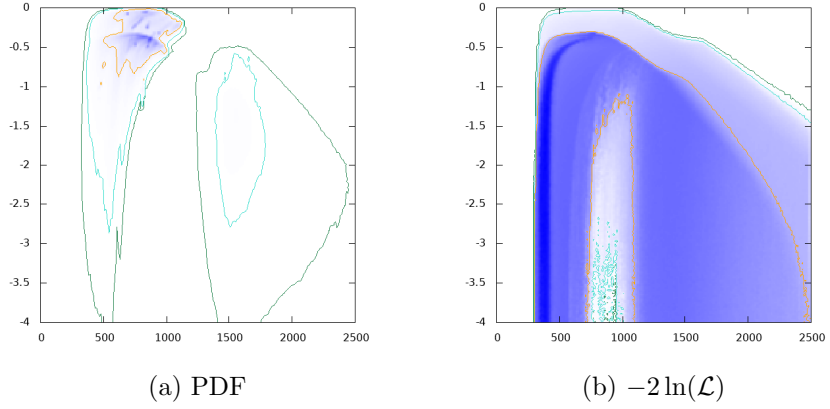


Figure 16: $\log_{10}\text{BR}(A \rightarrow HZ)$ vs. m_A GeV

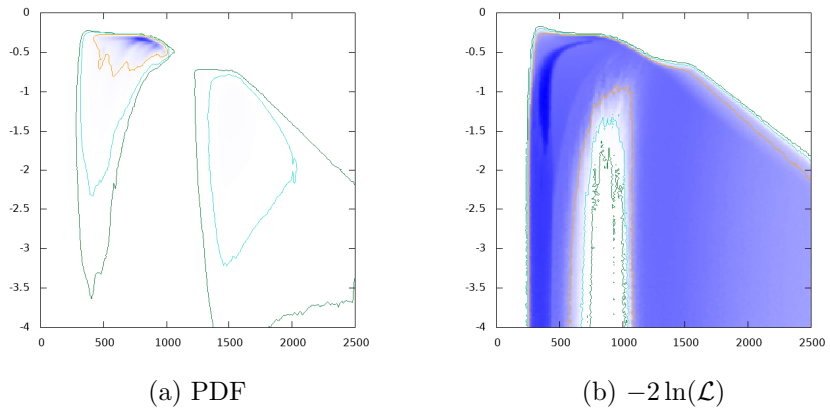
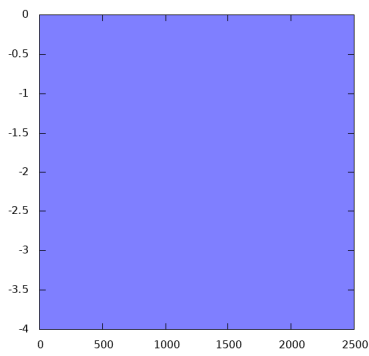
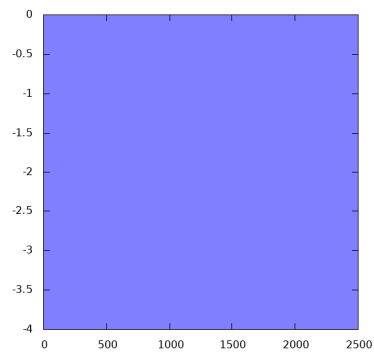


Figure 17: $\log_{10}\text{BR}(A \rightarrow H^\pm W^\mp)$ vs. m_A GeV



(a) PDF



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

Figure 18: $\log_{10}\text{BR}(A \rightarrow SS)$ vs. m_A GeV

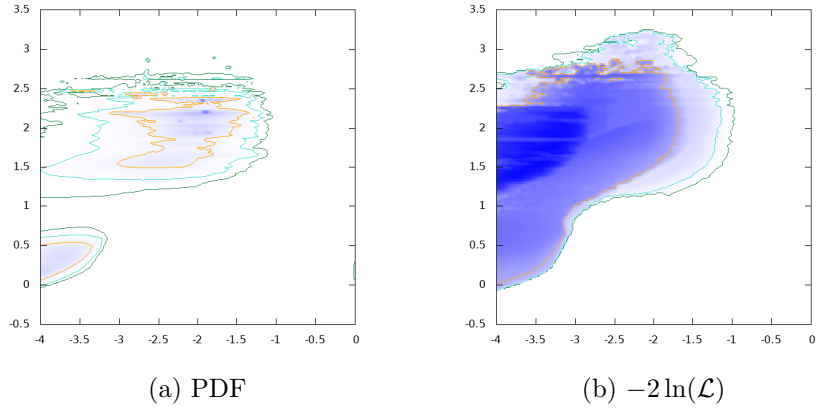


Figure 19: $\log_{10} \tan \beta$ vs. $\log_{10} \text{BR}(A \rightarrow e^+e^-)$

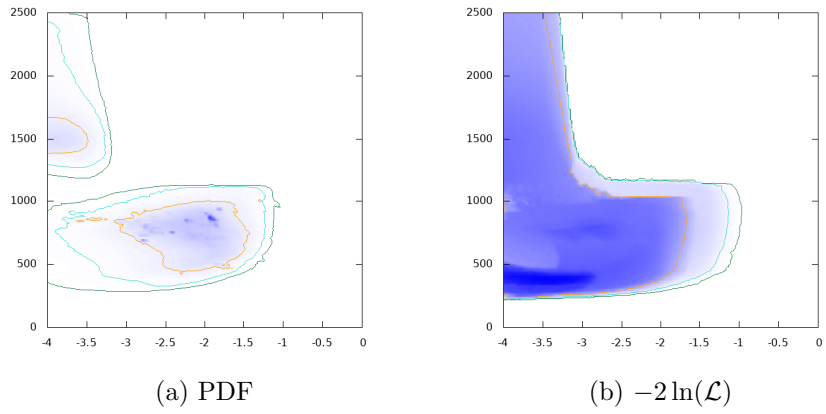


Figure 20: m_A GeV vs. $\log_{10} \text{BR}(A \rightarrow e^+e^-)$

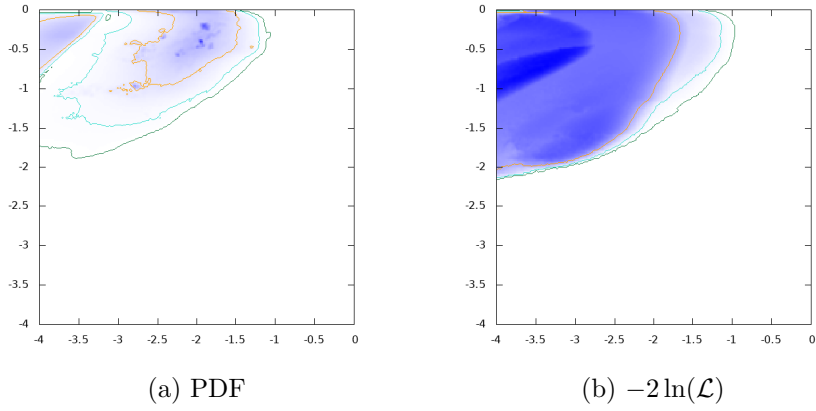


Figure 21: $\log_{10}\text{BR}(A \rightarrow \mu^+\mu^-)$ vs. $\log_{10}\text{BR}(A \rightarrow e^+e^-)$

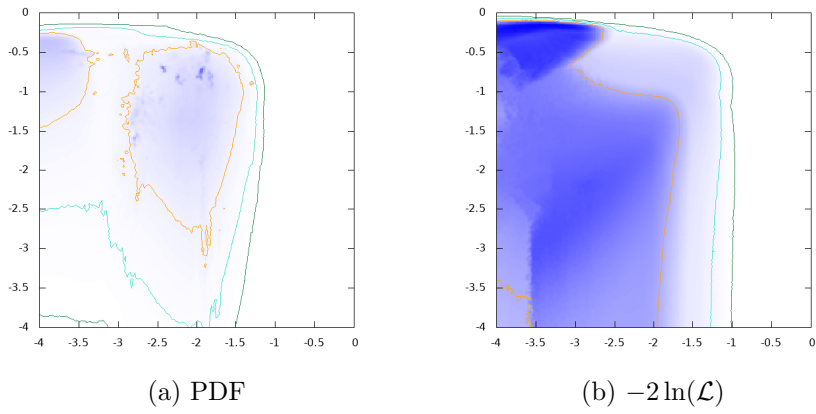


Figure 22: $\log_{10}\text{BR}(A \rightarrow \tau^+\tau^-)$ vs. $\log_{10}\text{BR}(A \rightarrow e^+e^-)$

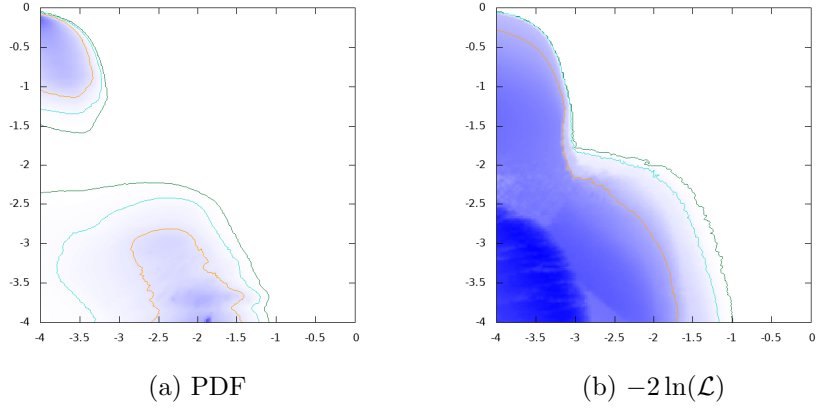


Figure 23: $\log_{10}\text{BR}(A \rightarrow t\bar{t})$ vs. $\log_{10}\text{BR}(A \rightarrow e^+e^-)$

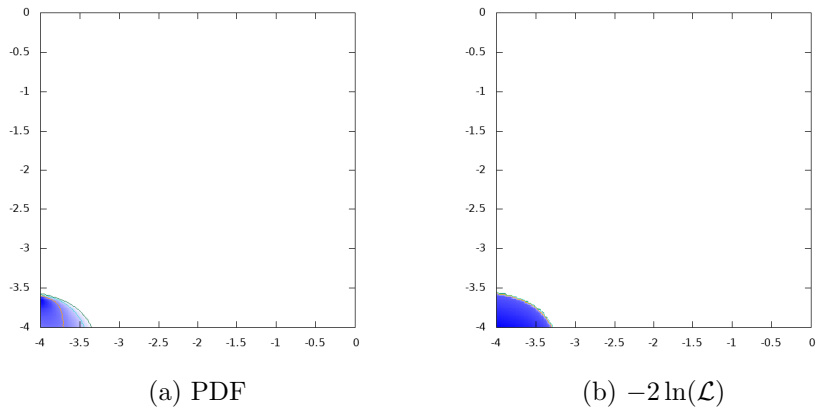


Figure 24: $\log_{10}\text{BR}(A \rightarrow b\bar{b})$ vs. $\log_{10}\text{BR}(A \rightarrow e^+e^-)$

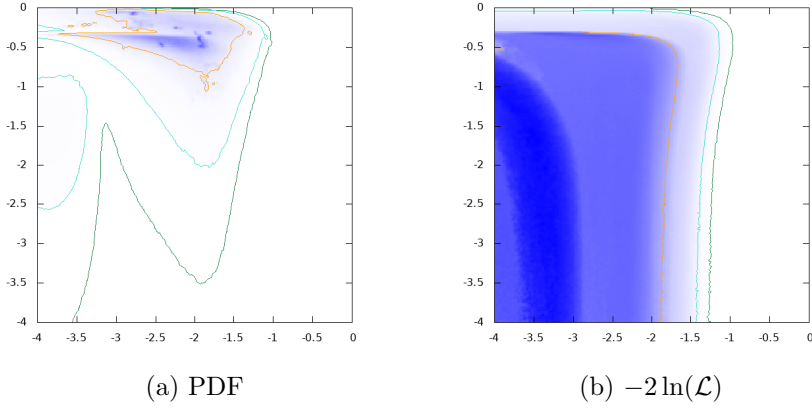


Figure 25: $\log_{10}\text{BR}(A \rightarrow HZ)$ vs. $\log_{10}\text{BR}(A \rightarrow e^+e^-)$

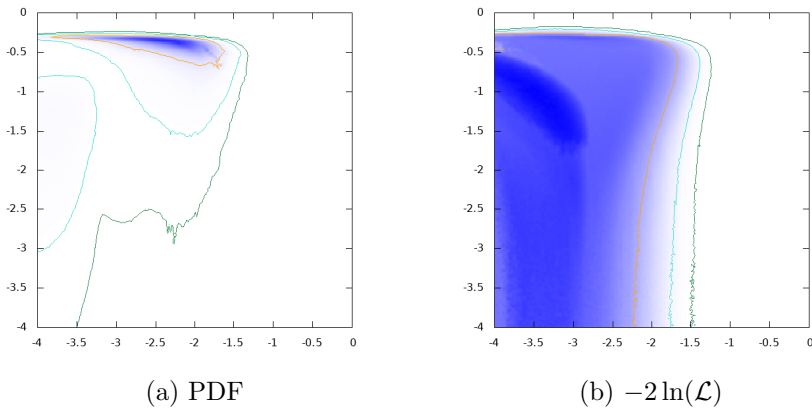


Figure 26: $\log_{10}\text{BR}(A \rightarrow H^\pm W^\mp)$ vs. $\log_{10}\text{BR}(A \rightarrow e^+e^-)$

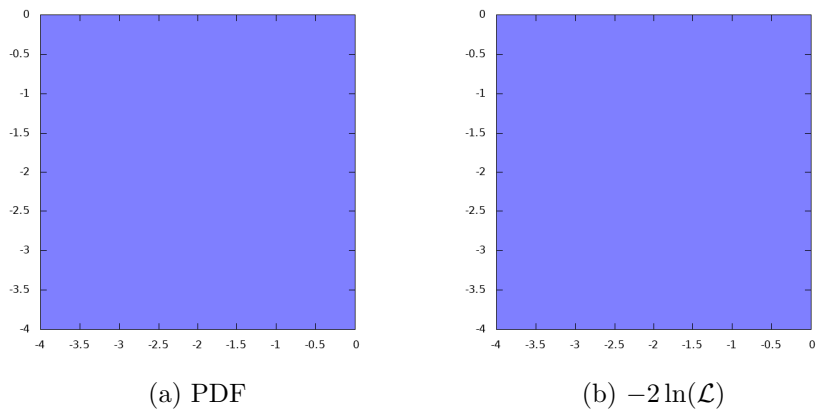


Figure 27: $\log_{10}\text{BR}(A \rightarrow SS)$ vs. $\log_{10}\text{BR}(A \rightarrow e^+e^-)$

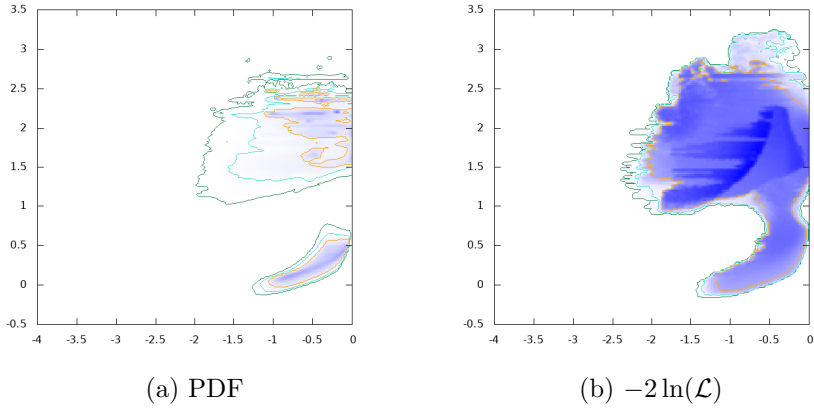


Figure 28: $\log_{10} \tan \beta$ vs. $\log_{10} \text{BR}(A \rightarrow \mu^+ \mu^-)$

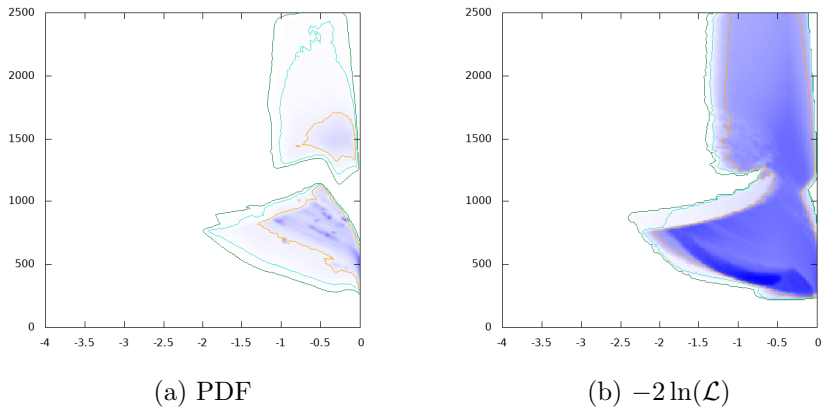


Figure 29: m_A GeV vs. $\log_{10} \text{BR}(A \rightarrow \mu^+ \mu^-)$

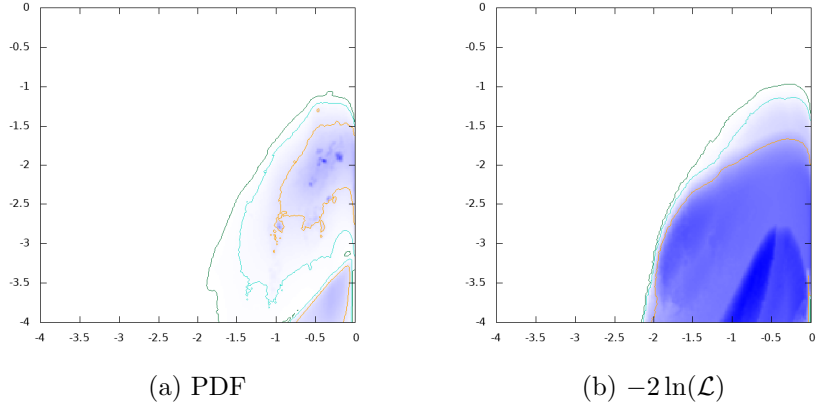


Figure 30: $\log_{10}\text{BR}(A \rightarrow e^+e^-)$ vs. $\log_{10}\text{BR}(A \rightarrow \mu^+\mu^-)$

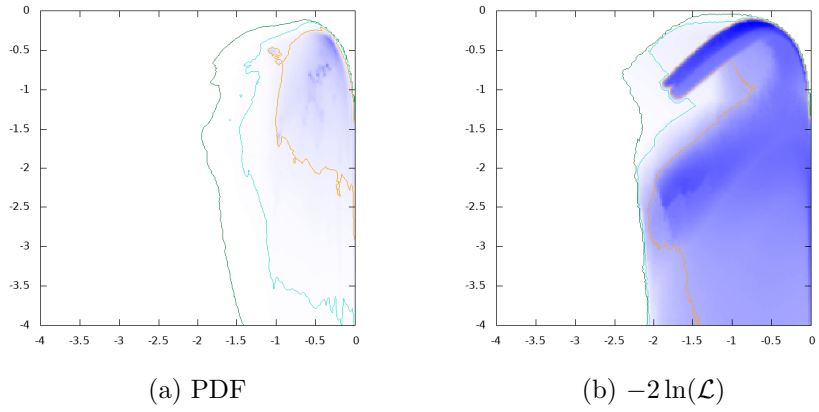


Figure 31: $\log_{10}\text{BR}(A \rightarrow \tau^+\tau^-)$ vs. $\log_{10}\text{BR}(A \rightarrow \mu^+\mu^-)$

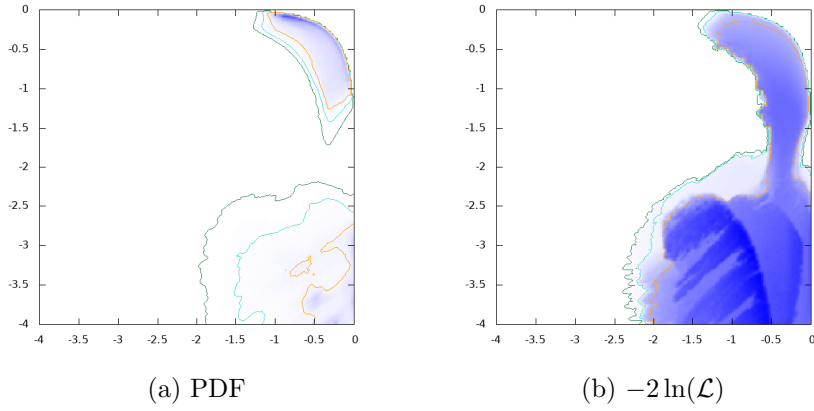


Figure 32: $\log_{10}\text{BR}(A \rightarrow \bar{t}t)$ vs. $\log_{10}\text{BR}(A \rightarrow \mu^+\mu^-)$

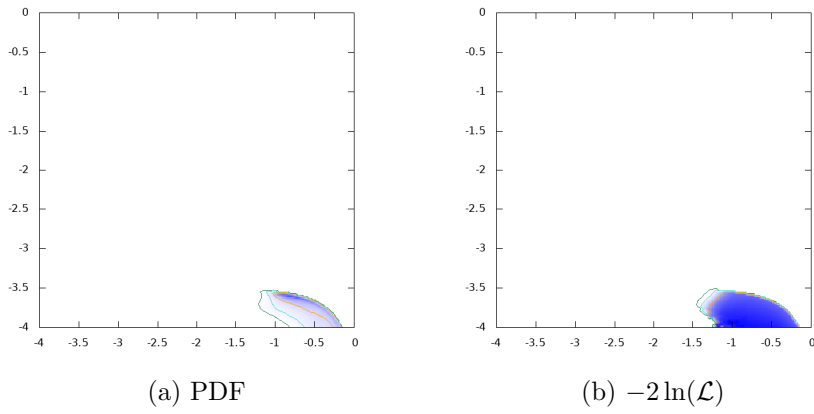


Figure 33: $\log_{10}\text{BR}(A \rightarrow \bar{b}b)$ vs. $\log_{10}\text{BR}(A \rightarrow \mu^+\mu^-)$

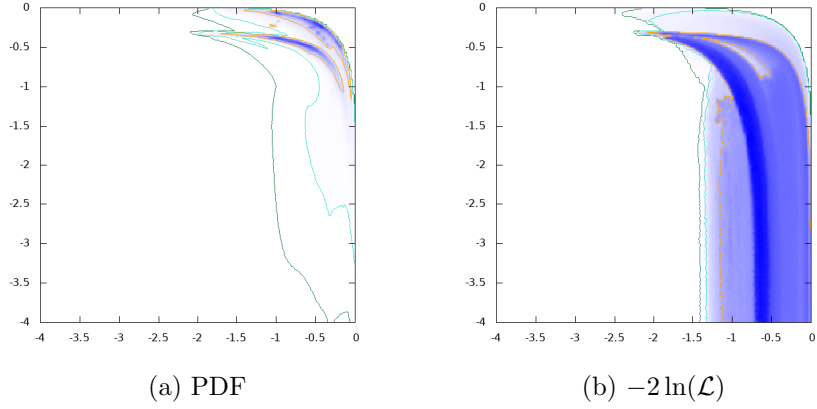


Figure 34: $\log_{10}\text{BR}(A \rightarrow HZ)$ vs. $\log_{10}\text{BR}(A \rightarrow \mu^+\mu^-)$

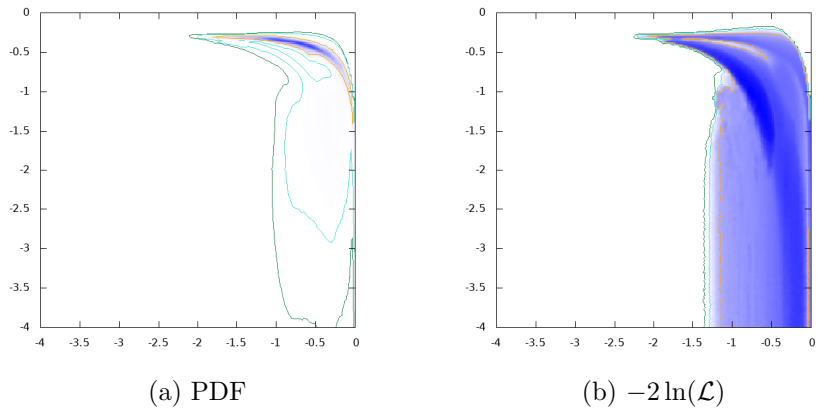
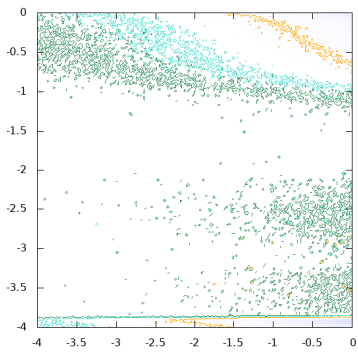
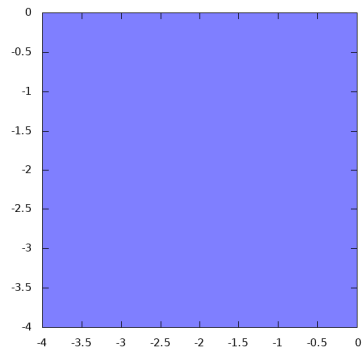


Figure 35: $\log_{10}\text{BR}(A \rightarrow H^\pm W^\mp)$ vs. $\log_{10}\text{BR}(A \rightarrow \mu^+\mu^-)$



(a) PDF



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

Figure 36: $\log_{10}\text{BR}(A \rightarrow SS)$ vs. $\log_{10}\text{BR}(A \rightarrow \mu^+\mu^-)$

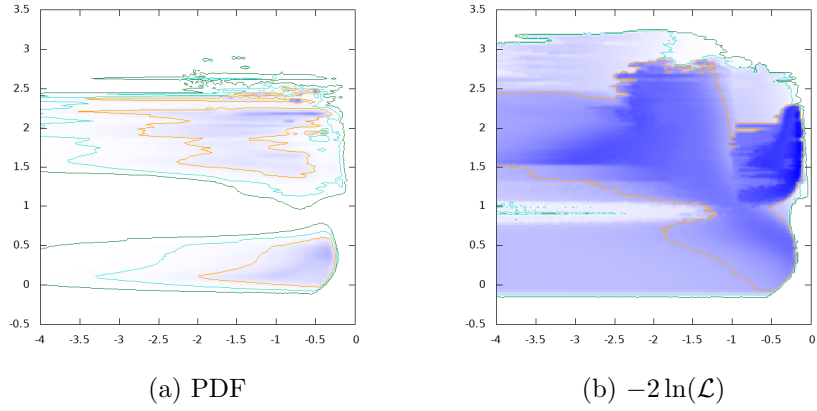


Figure 37: $\log_{10} \tan \beta$ vs. $\log_{10} \text{BR}(A \rightarrow \tau^+ \tau^-)$

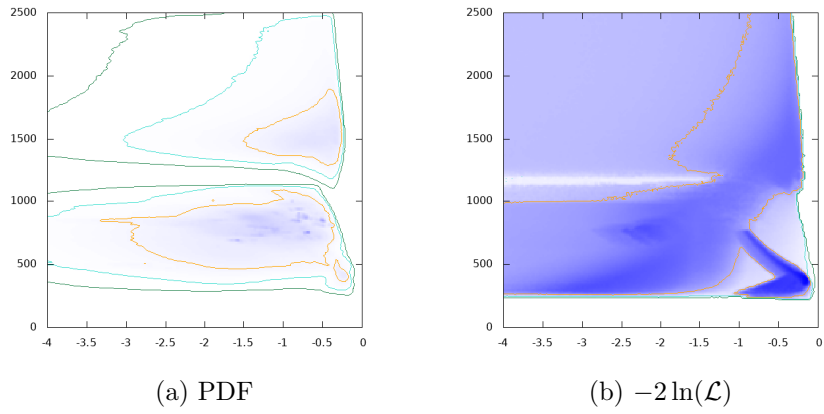


Figure 38: m_A GeV vs. $\log_{10} \text{BR}(A \rightarrow \tau^+ \tau^-)$

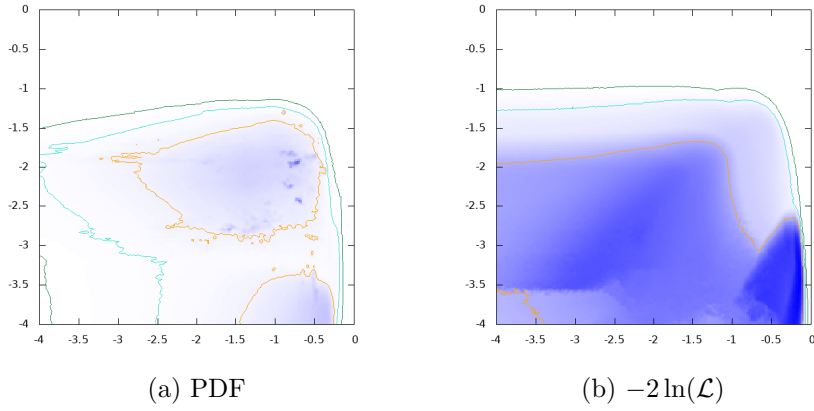


Figure 39: $\log_{10}\text{BR}(A \rightarrow e^+e^-)$ vs. $\log_{10}\text{BR}(A \rightarrow \tau^+\tau^-)$

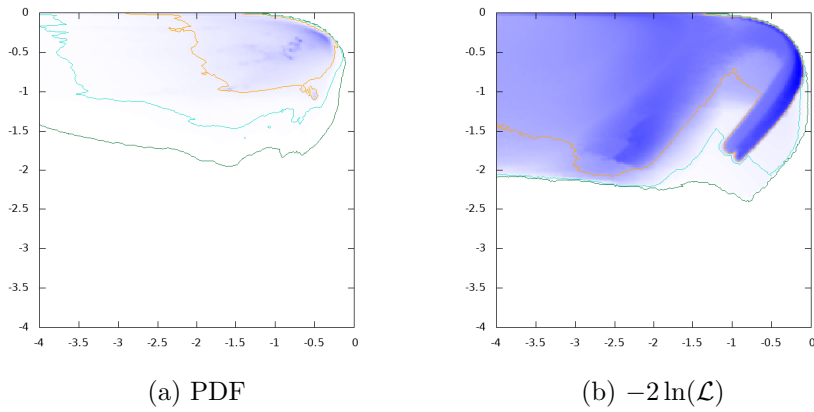


Figure 40: $\log_{10}\text{BR}(A \rightarrow \mu^+\mu^-)$ vs. $\log_{10}\text{BR}(A \rightarrow \tau^+\tau^-)$

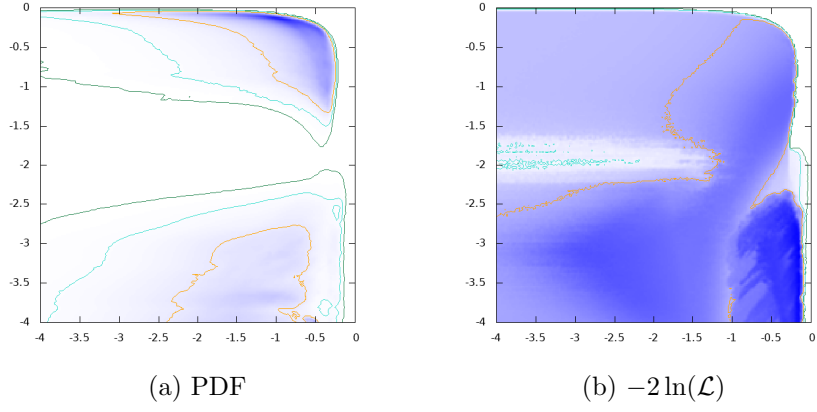


Figure 41: $\log_{10}\text{BR}(A \rightarrow t\bar{t})$ vs. $\log_{10}\text{BR}(A \rightarrow \tau^+\tau^-)$

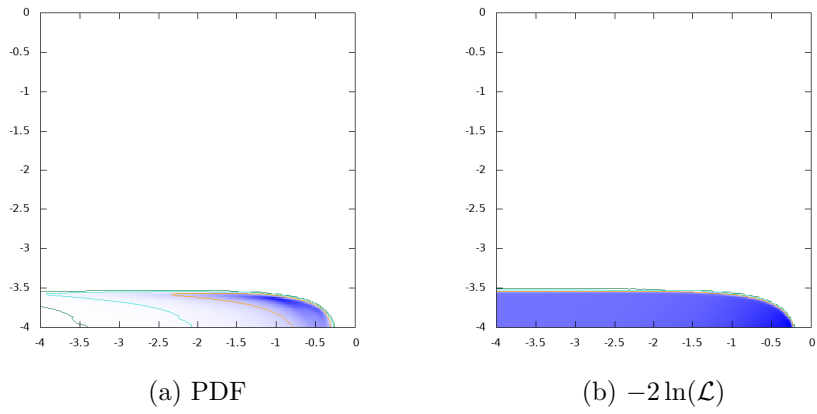
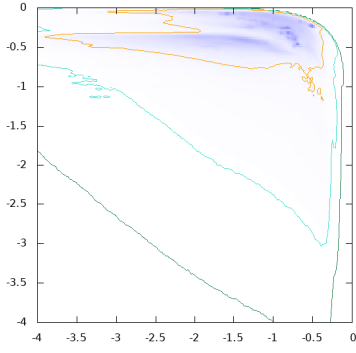
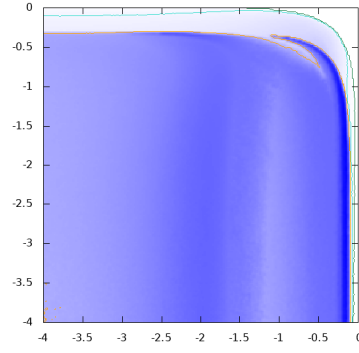


Figure 42: $\log_{10}\text{BR}(A \rightarrow b\bar{b})$ vs. $\log_{10}\text{BR}(A \rightarrow \tau^+\tau^-)$

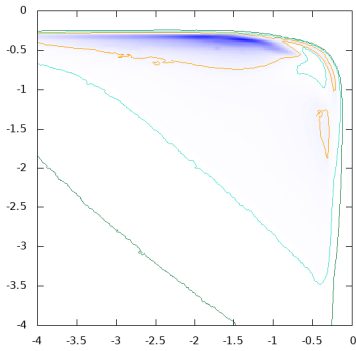


(a) PDF

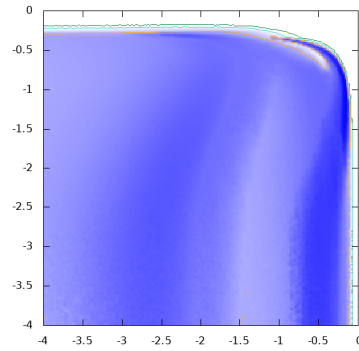


(b) $-2\ln(\mathcal{L})$

Figure 43: $\log_{10}\text{BR}(A \rightarrow HZ)$ vs. $\log_{10}\text{BR}(A \rightarrow \tau^+\tau^-)$



(a) PDF



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

Figure 44: $\log_{10}\text{BR}(A \rightarrow H^\pm W^\mp)$ vs. $\log_{10}\text{BR}(A \rightarrow \tau^+\tau^-)$

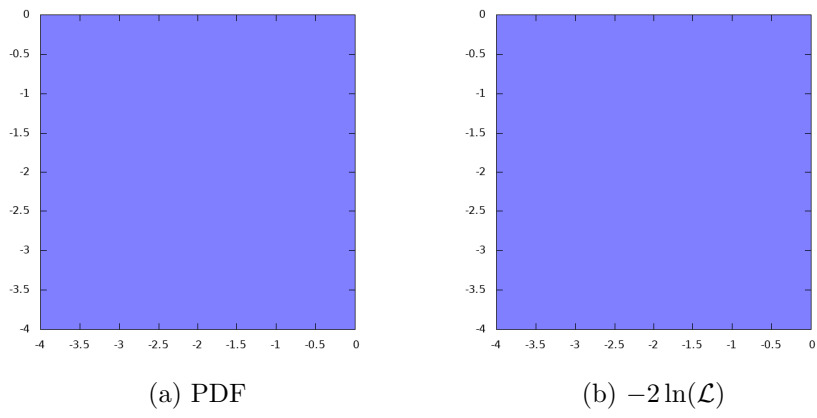


Figure 45: $\log_{10}\text{BR}(A \rightarrow SS)$ vs. $\log_{10}\text{BR}(A \rightarrow \tau^+\tau^-)$

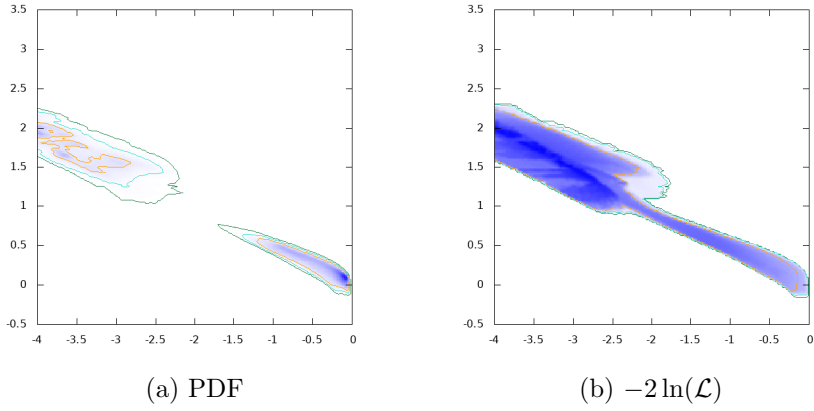


Figure 46: $\log_{10} \tan \beta$ vs. $\log_{10} \text{BR}(A \rightarrow t\bar{t})$

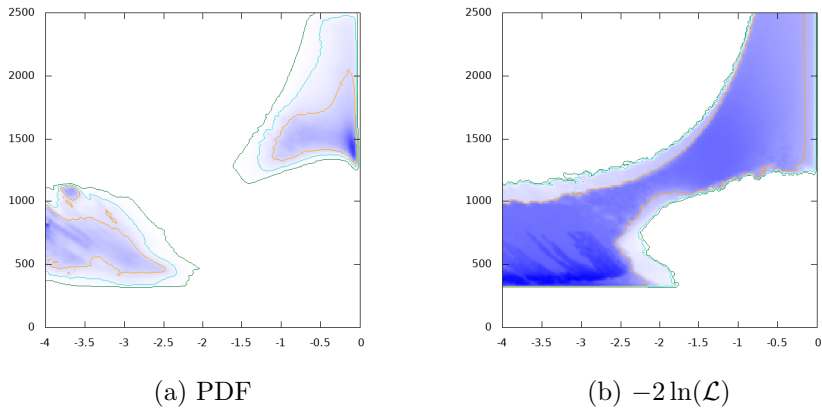


Figure 47: m_A GeV vs. $\log_{10} \text{BR}(A \rightarrow t\bar{t})$

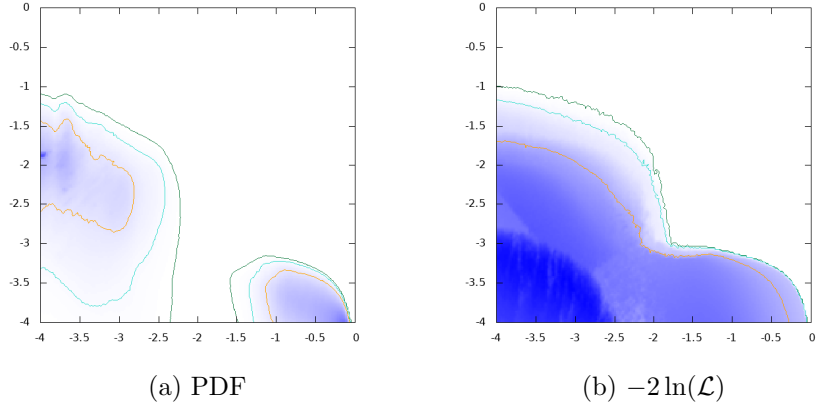


Figure 48: $\log_{10}\text{BR}(A \rightarrow e^+e^-)$ vs. $\log_{10}\text{BR}(A \rightarrow t\bar{t})$

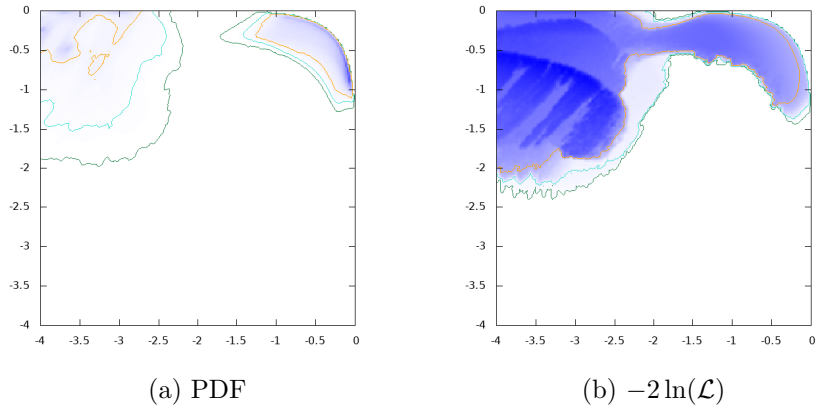


Figure 49: $\log_{10}\text{BR}(A \rightarrow \mu^+\mu^-)$ vs. $\log_{10}\text{BR}(A \rightarrow t\bar{t})$

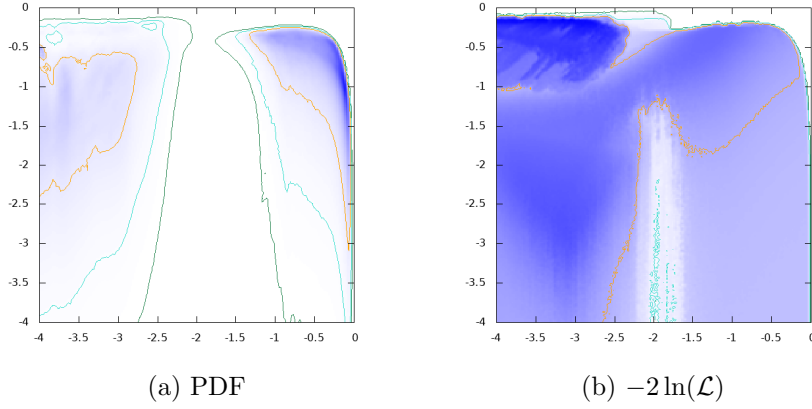


Figure 50: $\log_{10}\text{BR}(A \rightarrow \tau^+\tau^-)$ vs. $\log_{10}\text{BR}(A \rightarrow t\bar{t})$

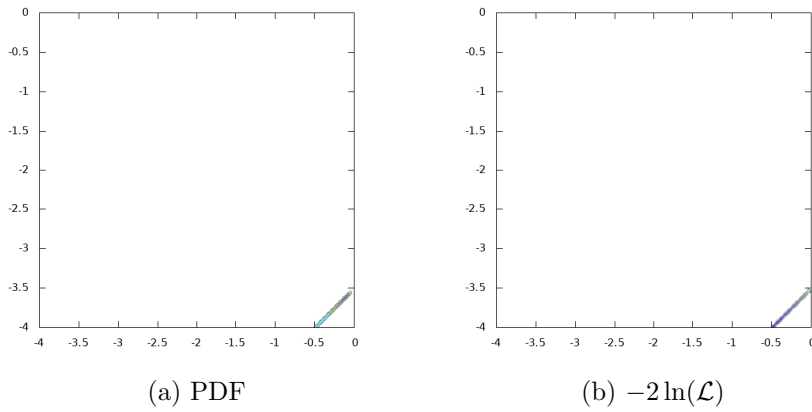


Figure 51: $\log_{10}\text{BR}(A \rightarrow \bar{b}b)$ vs. $\log_{10}\text{BR}(A \rightarrow \bar{t}t)$

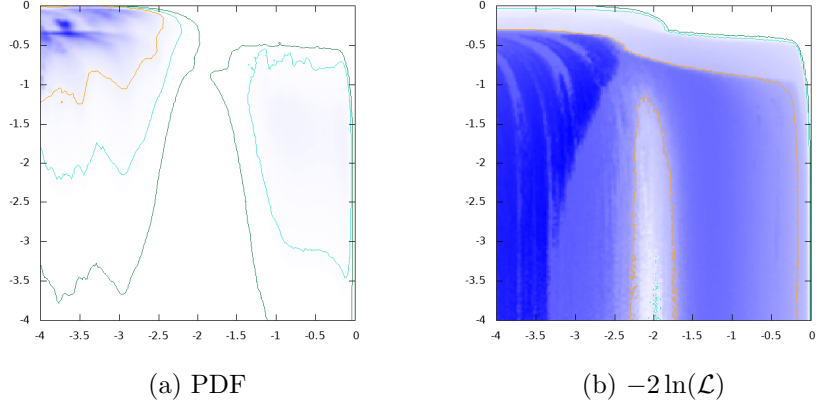


Figure 52: $\log_{10}\text{BR}(A \rightarrow HZ)$ vs. $\log_{10}\text{BR}(A \rightarrow \bar{t}t)$

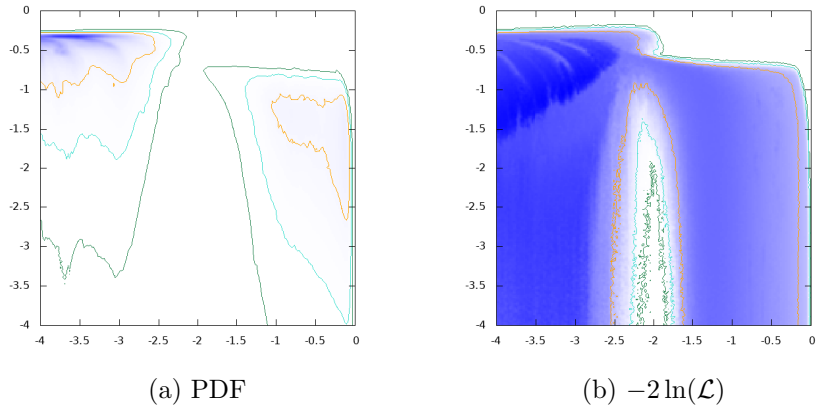
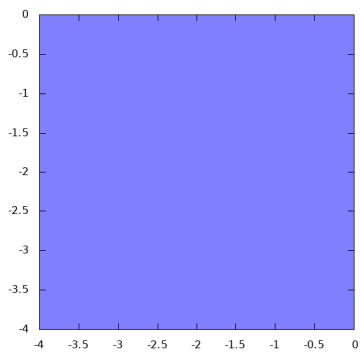
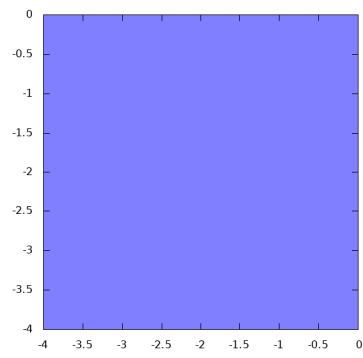


Figure 53: $\log_{10}\text{BR}(A \rightarrow H^\pm W^\mp)$ vs. $\log_{10}\text{BR}(A \rightarrow \bar{t}t)$

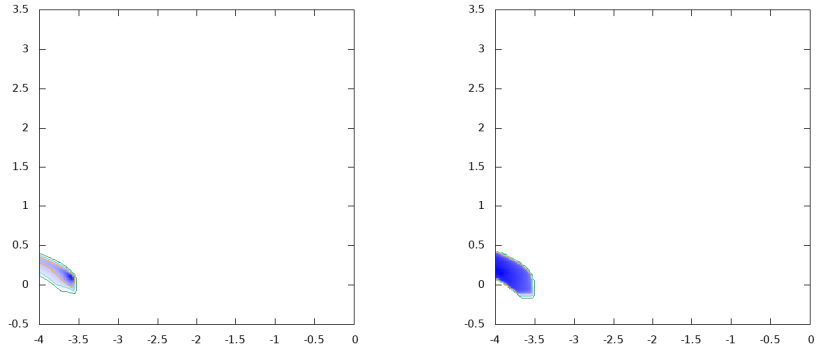


(a) PDF



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

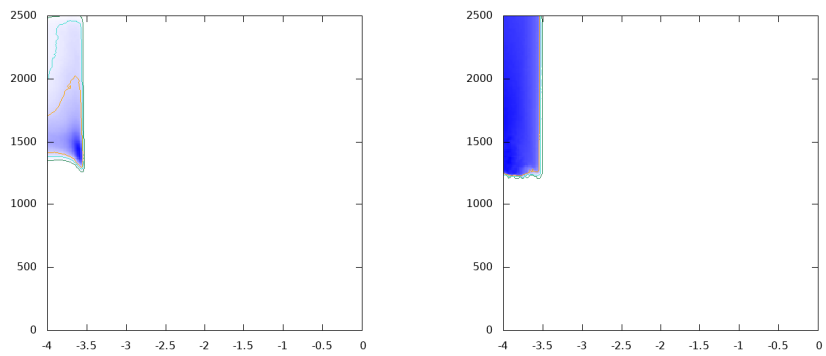
Figure 54: $\log_{10}\text{BR}(A \rightarrow SS)$ vs. $\log_{10}\text{BR}(A \rightarrow \bar{t}t)$



(a) PDF

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

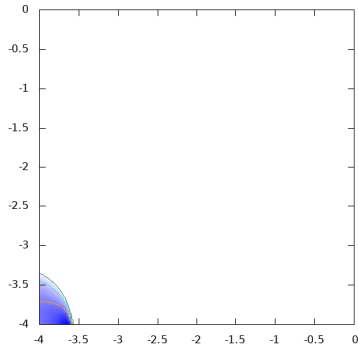
Figure 55: $\log_{10} \tan \beta$ vs. $\log_{10} \text{BR}(A \rightarrow \bar{b}b)$



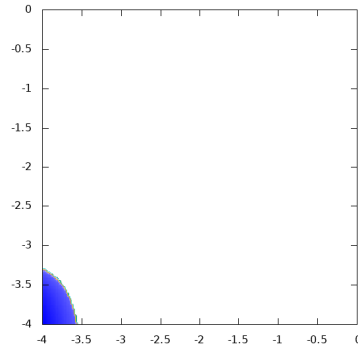
(a) PDF

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

Figure 56: m_A GeV vs. $\log_{10} \text{BR}(A \rightarrow \bar{b}b)$

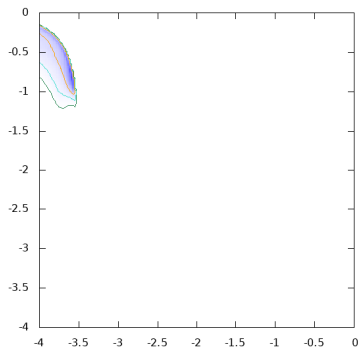


(a) PDF

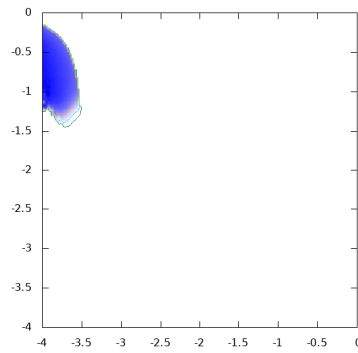


(b) $-2\ln(\mathcal{L})$

Figure 57: $\log_{10}\text{BR}(A \rightarrow e^+e^-)$ vs. $\log_{10}\text{BR}(A \rightarrow \bar{b}b)$



(a) PDF



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

Figure 58: $\log_{10}\text{BR}(A \rightarrow \mu^+\mu^-)$ vs. $\log_{10}\text{BR}(A \rightarrow \bar{b}b)$

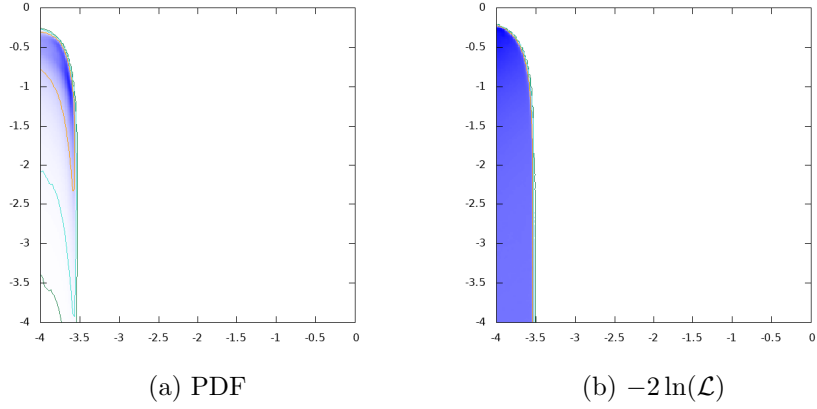


Figure 59: $\log_{10}\text{BR}(A \rightarrow \tau^+\tau^-)$ vs. $\log_{10}\text{BR}(A \rightarrow \bar{b}b)$

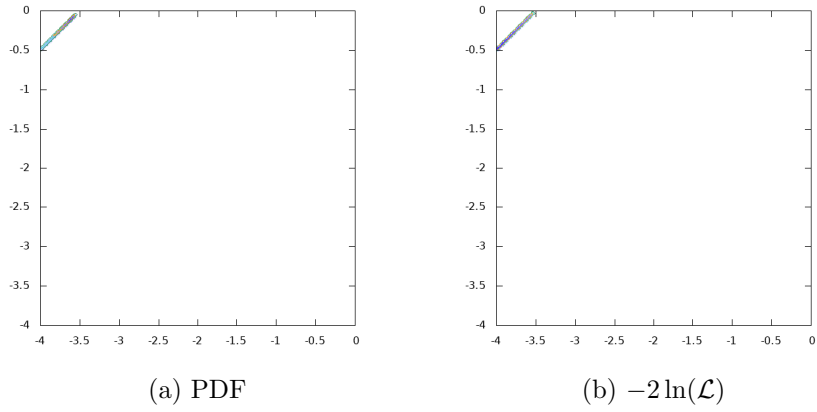


Figure 60: $\log_{10}\text{BR}(A \rightarrow \bar{t}t)$ vs. $\log_{10}\text{BR}(A \rightarrow \bar{b}b)$

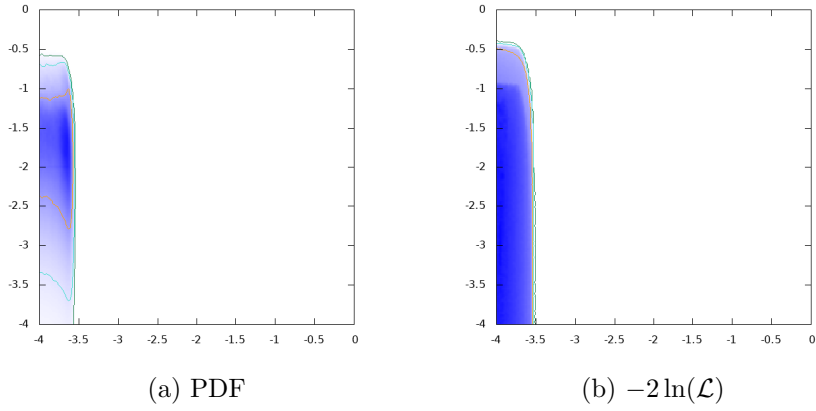


Figure 61: $\log_{10}\text{BR}(A \rightarrow HZ)$ vs. $\log_{10}\text{BR}(A \rightarrow \bar{b}b)$

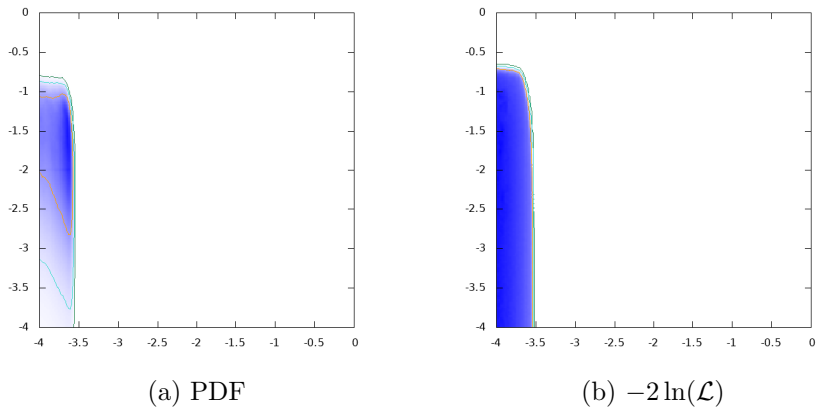
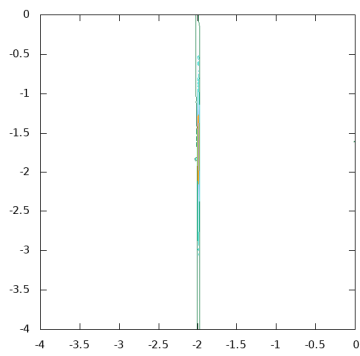
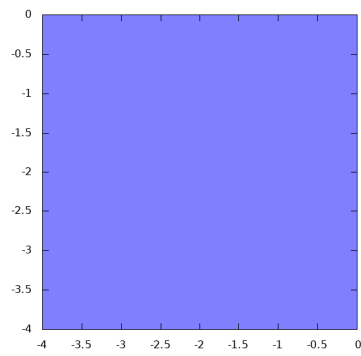


Figure 62: $\log_{10}\text{BR}(A \rightarrow H^\pm W^\mp)$ vs. $\log_{10}\text{BR}(A \rightarrow \bar{b}b)$

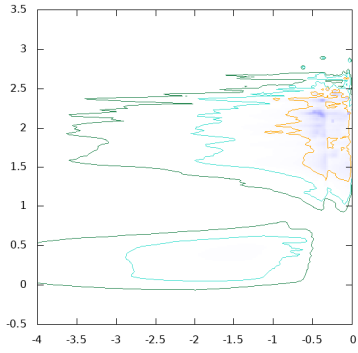


(a) PDF

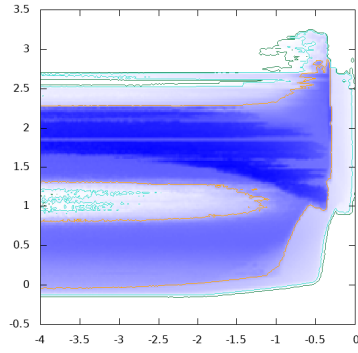


(b) $-2\ln(\mathcal{L})$

Figure 63: $\log_{10}\text{BR}(A \rightarrow SS)$ vs. $\log_{10}\text{BR}(A \rightarrow \bar{b}b)$

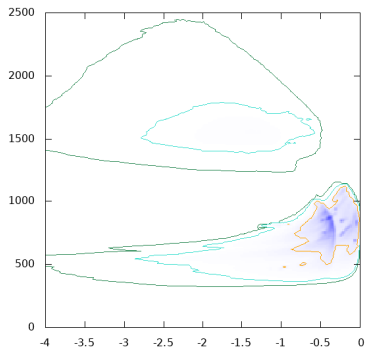


(a) PDF

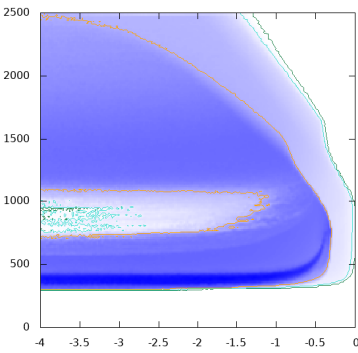


(b) $-2\ln(\mathcal{L})$

Figure 64: $\log_{10} \tan \beta$ vs. $\log_{10} \text{BR}(A \rightarrow HZ)$



(a) PDF



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

Figure 65: m_A GeV vs. $\log_{10} \text{BR}(A \rightarrow HZ)$

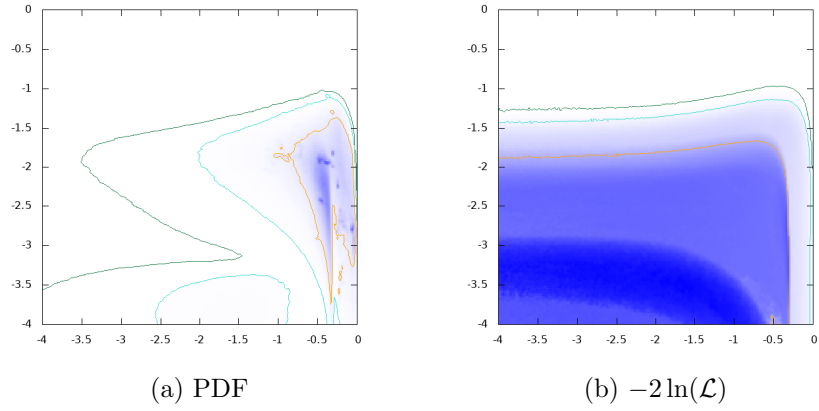


Figure 66: $\log_{10}\text{BR}(A \rightarrow e^+e^-)$ vs. $\log_{10}\text{BR}(A \rightarrow HZ)$

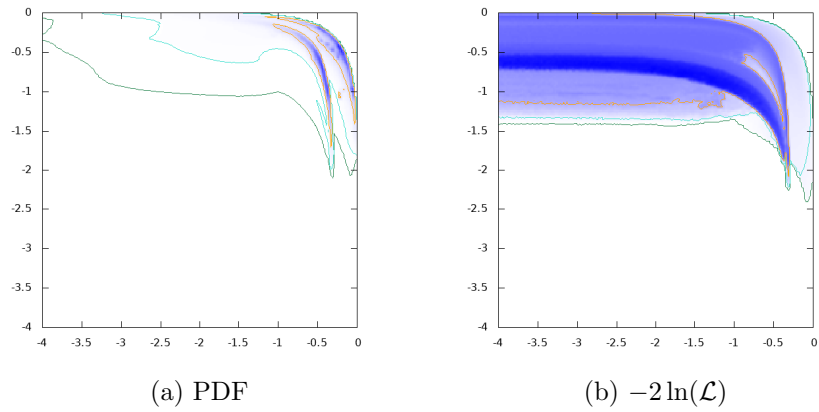


Figure 67: $\log_{10}\text{BR}(A \rightarrow \mu^+\mu^-)$ vs. $\log_{10}\text{BR}(A \rightarrow HZ)$

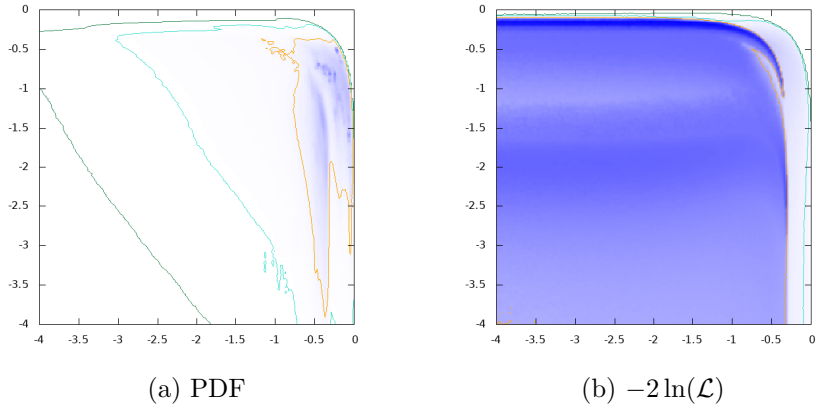


Figure 68: $\log_{10}\text{BR}(A \rightarrow \tau^+\tau^-)$ vs. $\log_{10}\text{BR}(A \rightarrow HZ)$

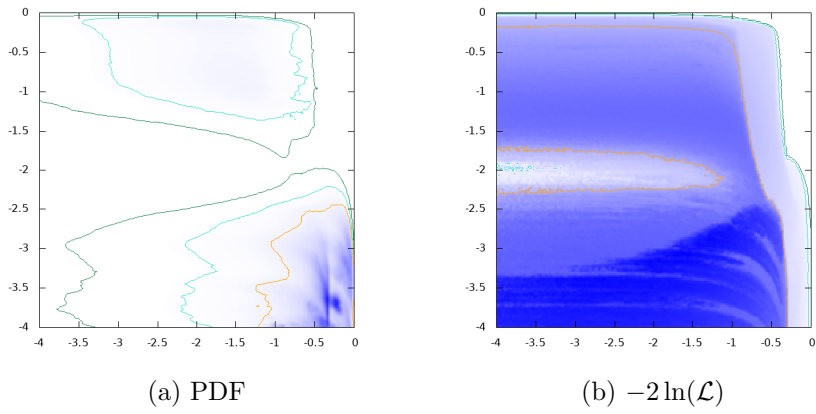


Figure 69: $\log_{10}\text{BR}(A \rightarrow t\bar{t})$ vs. $\log_{10}\text{BR}(A \rightarrow HZ)$

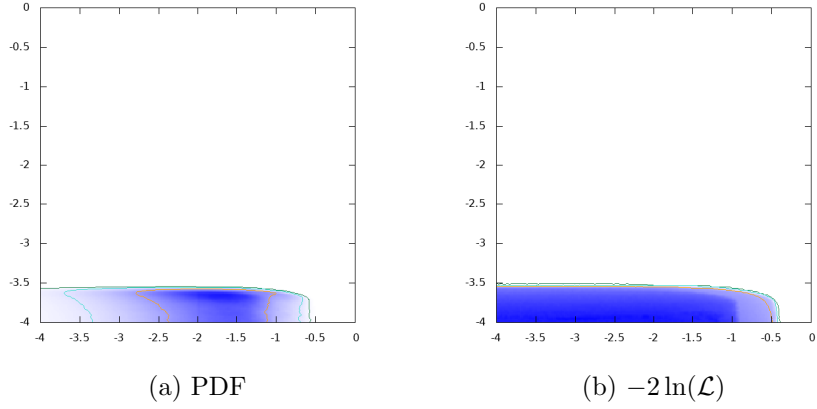


Figure 70: $\log_{10}\text{BR}(A \rightarrow \bar{b}b)$ vs. $\log_{10}\text{BR}(A \rightarrow HZ)$

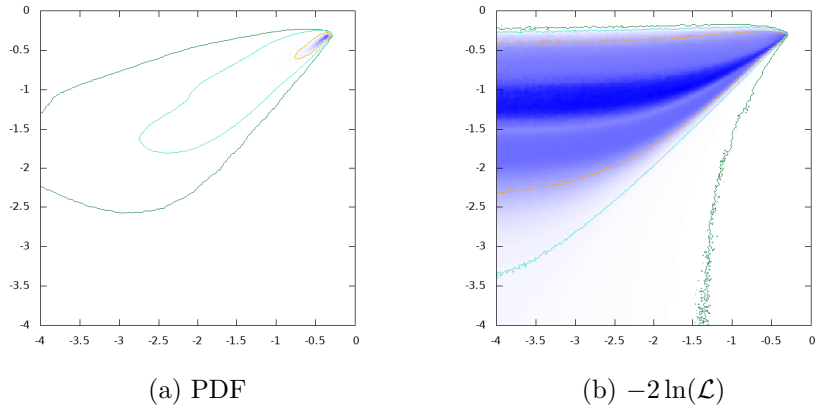
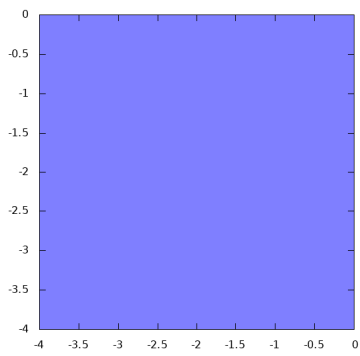
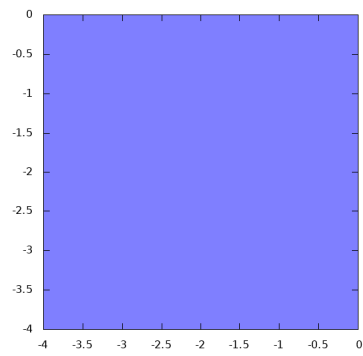


Figure 71: $\log_{10}\text{BR}(A \rightarrow H^\pm W^\mp)$ vs. $\log_{10}\text{BR}(A \rightarrow HZ)$



(a) PDF



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

Figure 72: $\log_{10}\text{BR}(A \rightarrow SS)$ vs. $\log_{10}\text{BR}(A \rightarrow HZ)$

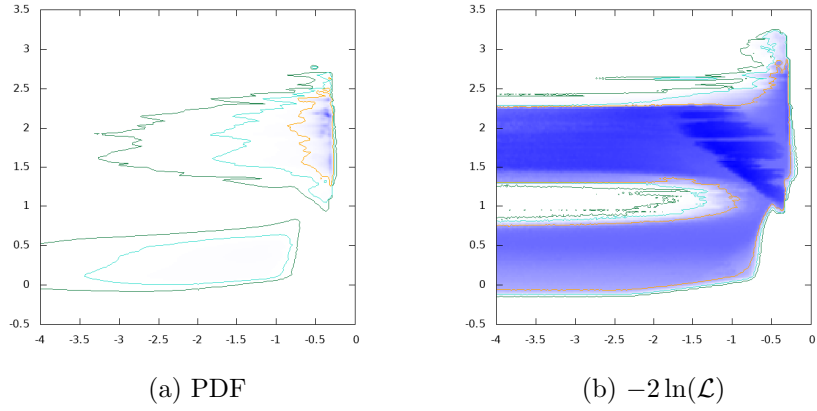


Figure 73: $\log_{10} \tan \beta$ vs. $\log_{10} \text{BR}(A \rightarrow H^\pm W^\mp)$

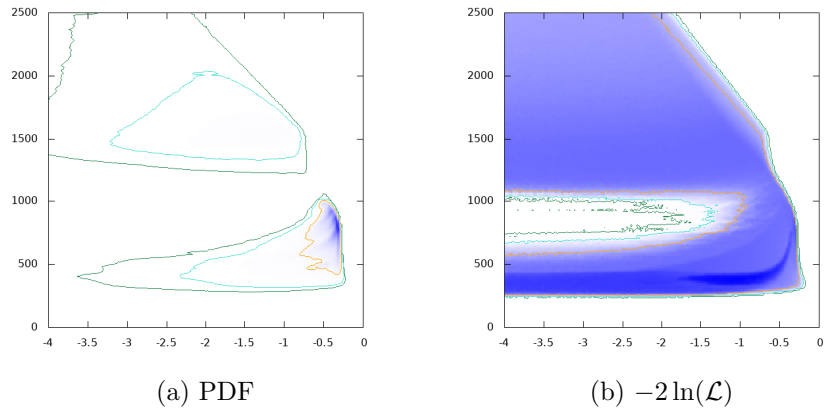


Figure 74: m_A GeV vs. $\log_{10} \text{BR}(A \rightarrow H^\pm W^\mp)$

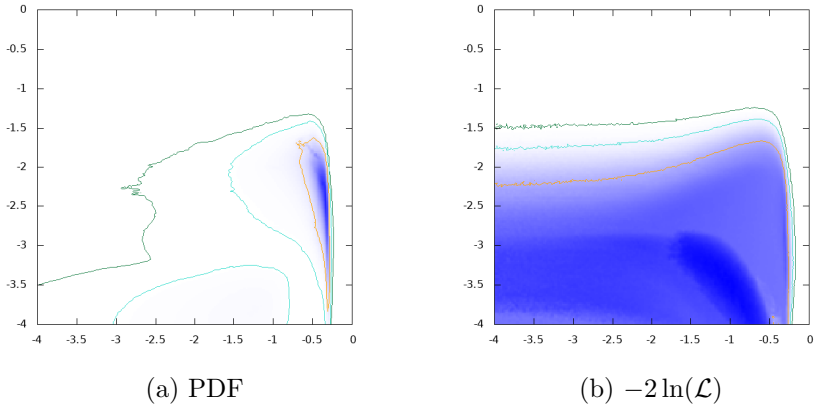


Figure 75: $\log_{10}\text{BR}(A \rightarrow e^+e^-)$ vs. $\log_{10}\text{BR}(A \rightarrow H^\pm W^\mp)$

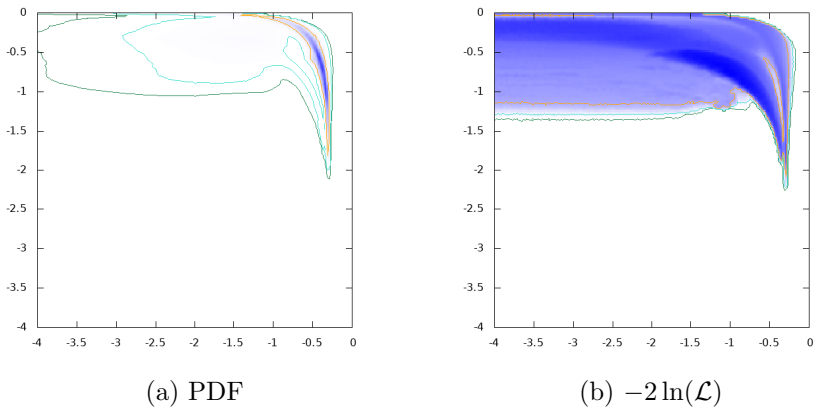


Figure 76: $\log_{10}\text{BR}(A \rightarrow \mu^+\mu^-)$ vs. $\log_{10}\text{BR}(A \rightarrow H^\pm W^\mp)$

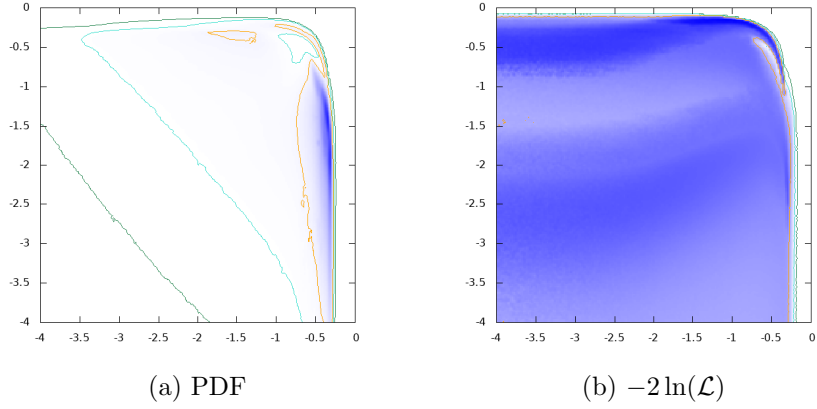


Figure 77: $\log_{10}\text{BR}(A \rightarrow \tau^+\tau^-)$ vs. $\log_{10}\text{BR}(A \rightarrow H^\pm W^\mp)$

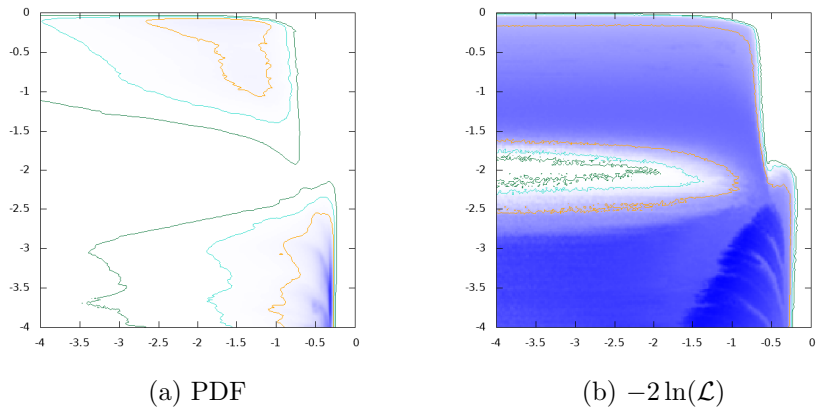


Figure 78: $\log_{10}\text{BR}(A \rightarrow t\bar{t})$ vs. $\log_{10}\text{BR}(A \rightarrow H^\pm W^\mp)$

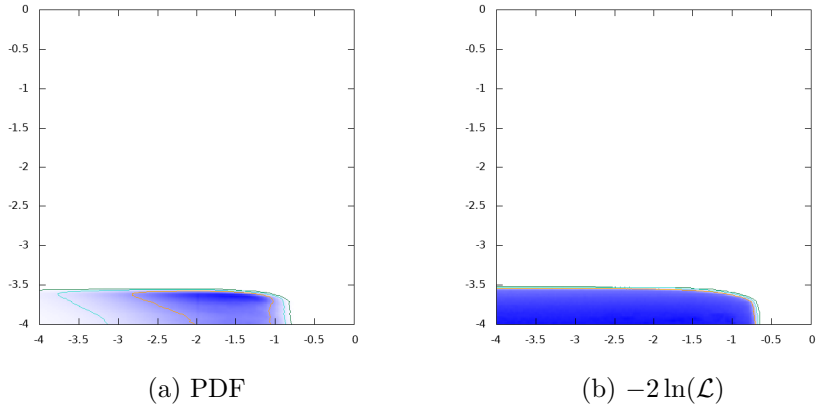


Figure 79: $\log_{10}\text{BR}(A \rightarrow \bar{b}b)$ vs. $\log_{10}\text{BR}(A \rightarrow H^\pm W^\mp)$

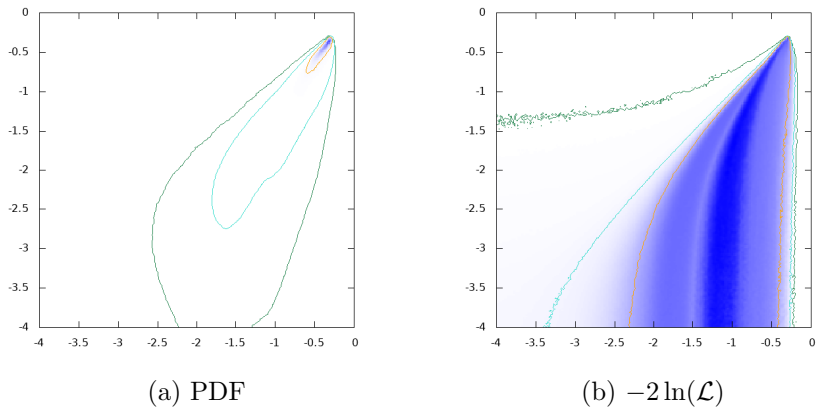


Figure 80: $\log_{10}\text{BR}(A \rightarrow HZ)$ vs. $\log_{10}\text{BR}(A \rightarrow H^\pm W^\mp)$

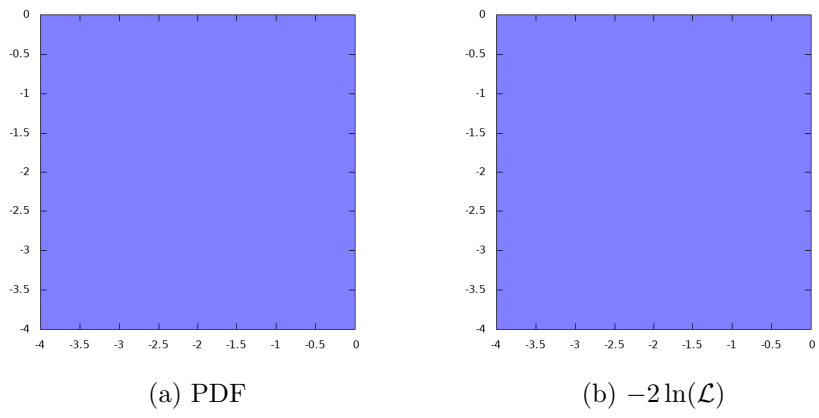
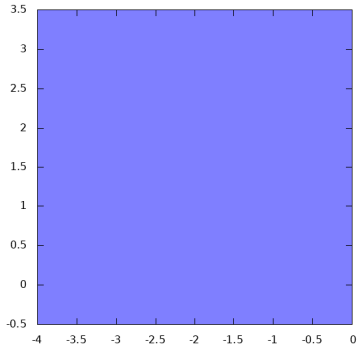
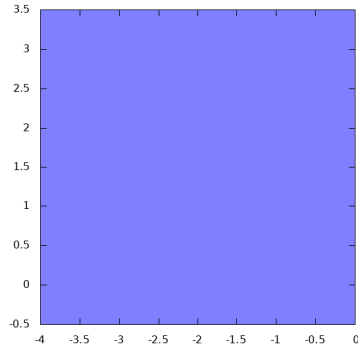


Figure 81: $\log_{10}\text{BR}(A \rightarrow SS)$ vs. $\log_{10}\text{BR}(A \rightarrow H^\pm W^\mp)$

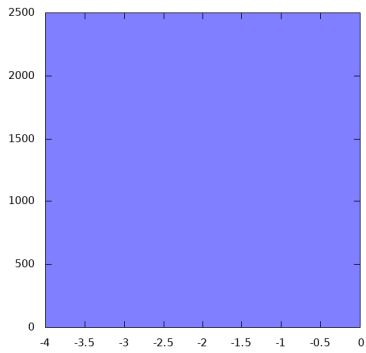


(a) PDF

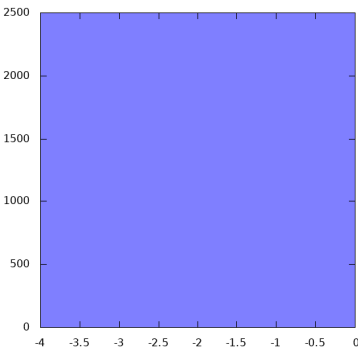


(b) $-2\ln(\mathcal{L})$

Figure 82: $\log_{10} \tan \beta$ vs. $\log_{10} \text{BR}(A \rightarrow SS)$



(a) PDF



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

Figure 83: m_A GeV vs. $\log_{10} \text{BR}(A \rightarrow SS)$

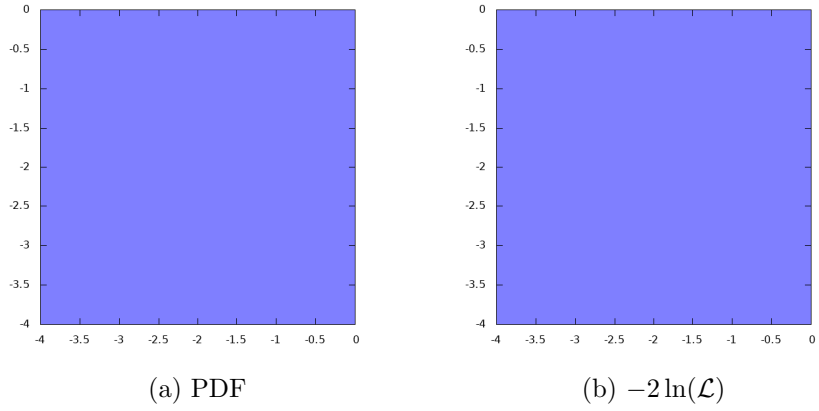


Figure 84: $\log_{10}\text{BR}(A \rightarrow e^+e^-)$ vs. $\log_{10}\text{BR}(A \rightarrow SS)$

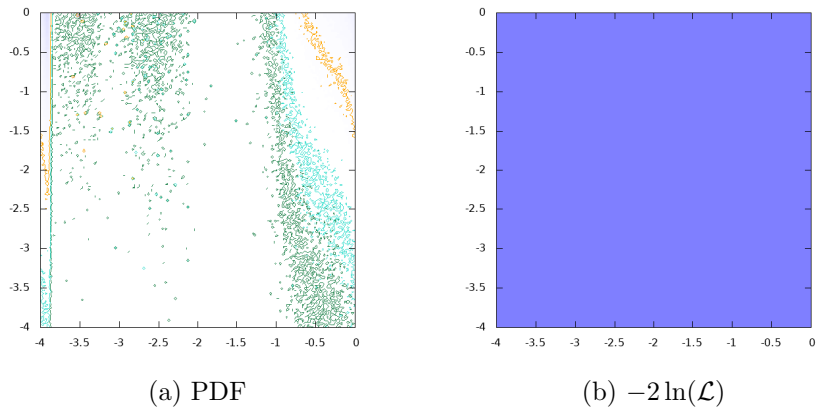
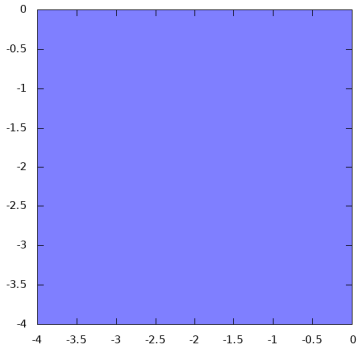
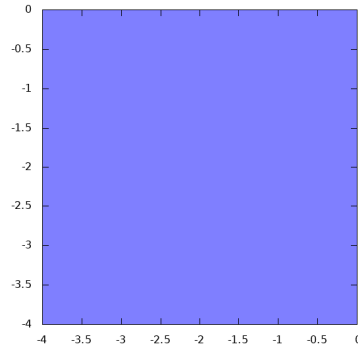


Figure 85: $\log_{10}\text{BR}(A \rightarrow \mu^+\mu^-)$ vs. $\log_{10}\text{BR}(A \rightarrow SS)$

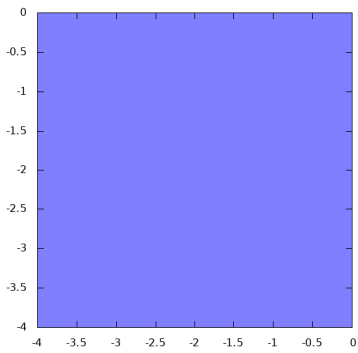


(a) PDF

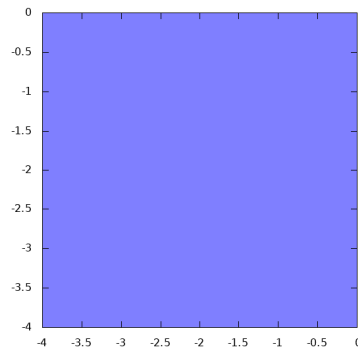


(b) $-2\ln(\mathcal{L})$

Figure 86: $\log_{10}\text{BR}(A \rightarrow \tau^+\tau^-)$ vs. $\log_{10}\text{BR}(A \rightarrow SS)$

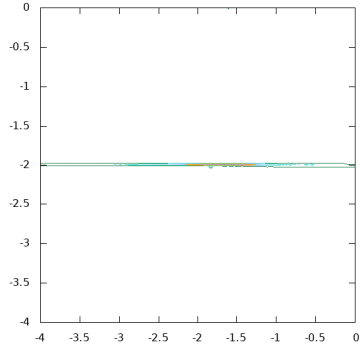


(a) PDF

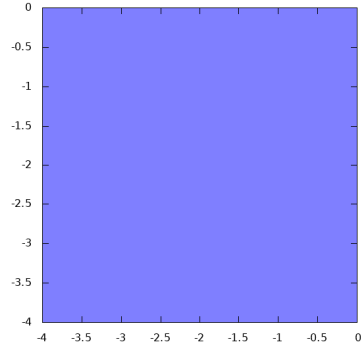


(b) $-2\ln(\mathcal{L})$

Figure 87: $\log_{10}\text{BR}(A \rightarrow \bar{t}t)$ vs. $\log_{10}\text{BR}(A \rightarrow SS)$

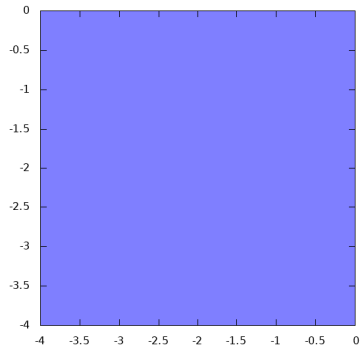


(a) PDF

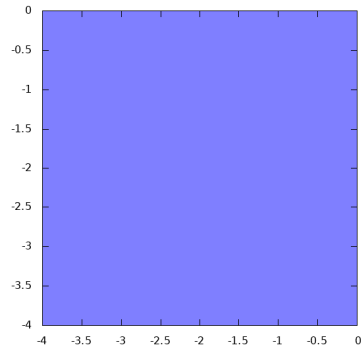


(b) $-2\ln(\mathcal{L})$

Figure 88: $\log_{10}\text{BR}(A \rightarrow \bar{b}b)$ vs. $\log_{10}\text{BR}(A \rightarrow SS)$

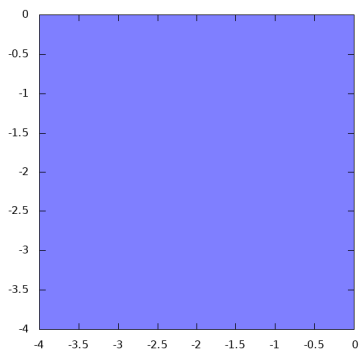


(a) PDF

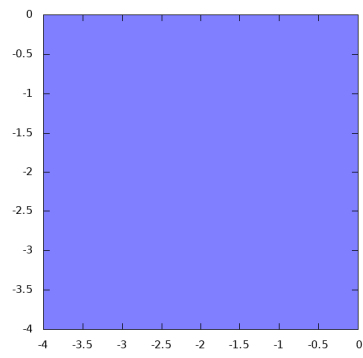


(b) $-2\ln(\mathcal{L})$

Figure 89: $\log_{10}\text{BR}(A \rightarrow HZ)$ vs. $\log_{10}\text{BR}(A \rightarrow SS)$



(a) PDF



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

Figure 90: $\log_{10}\text{BR}(A \rightarrow H^\pm W^\mp)$ vs. $\log_{10}\text{BR}(A \rightarrow SS)$