Two-dimensional plots - Summary group 2

February 21, 2022

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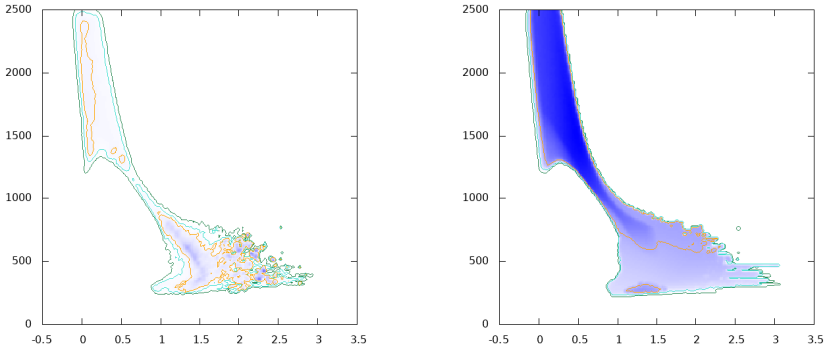

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Figure 1: m_H GeV vs. $\log_{10}\tan\beta$

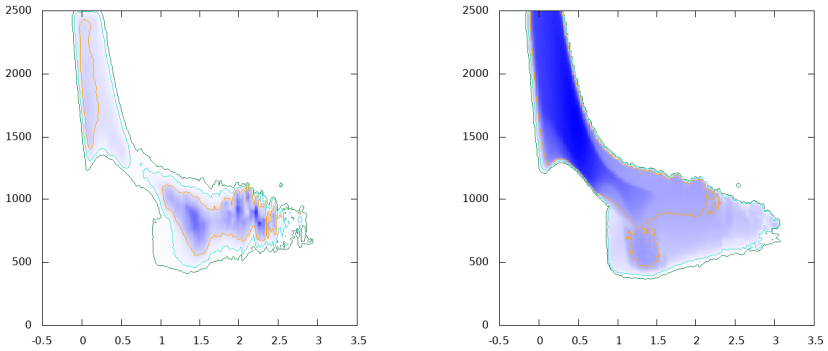

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Figure 2: m_A GeV vs. $\log_{10}\tan\beta$

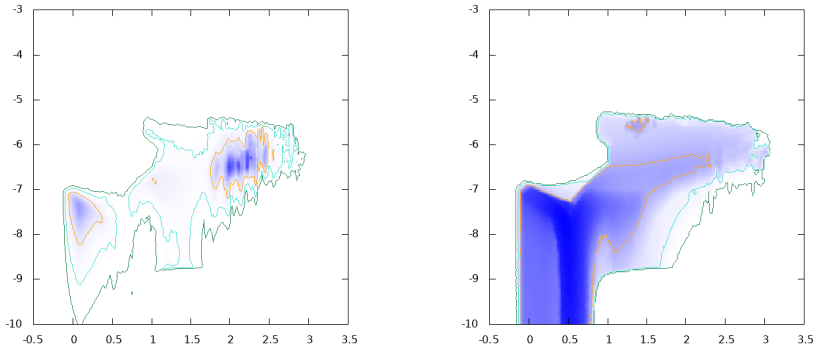

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Figure 3: $\log_{10}|\delta a_\tau|$ vs. $\log_{10}\tan\beta$

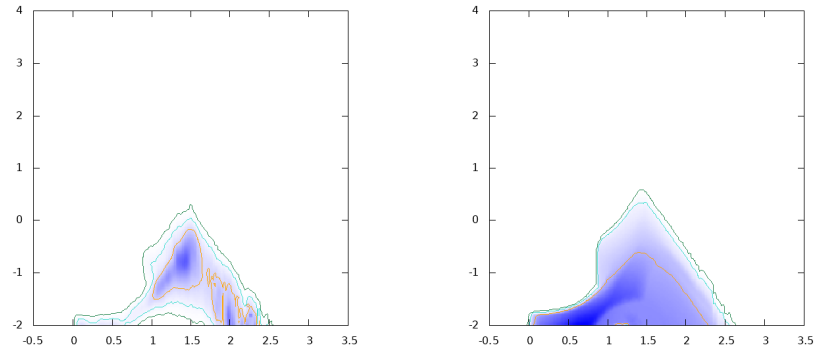

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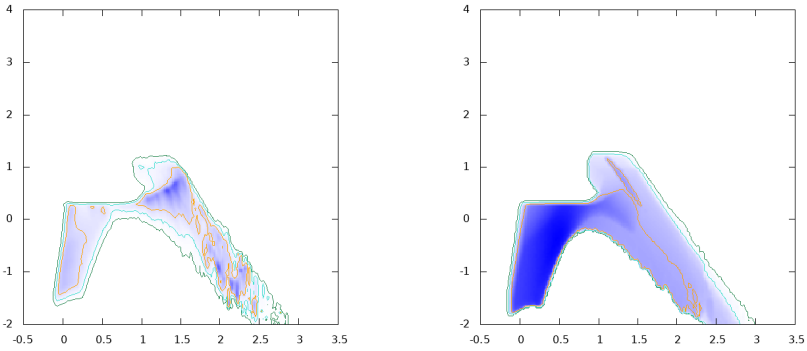
Figure 4: $\log_{10}\sigma(pp \to H \to e^+e^-)$ (fb) vs. $\log_{10}\tan\beta$



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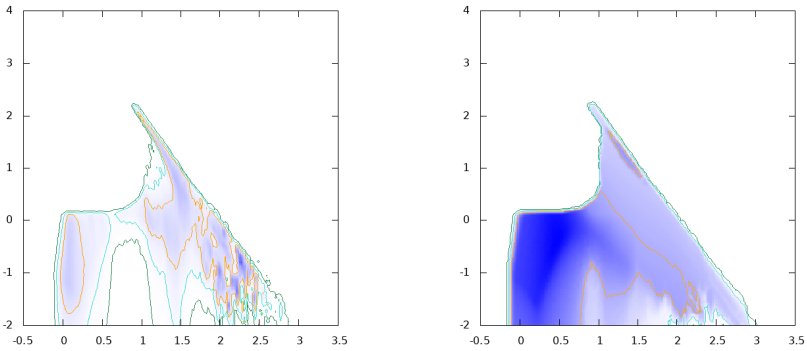

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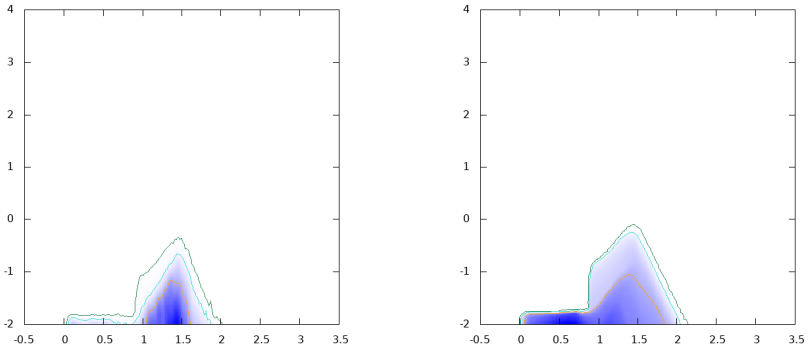
Figure 6: $\log_{10}\sigma(pp \to H \to \tau^+\tau^-)$ (fb) vs. $\log_{10}\tan\beta$



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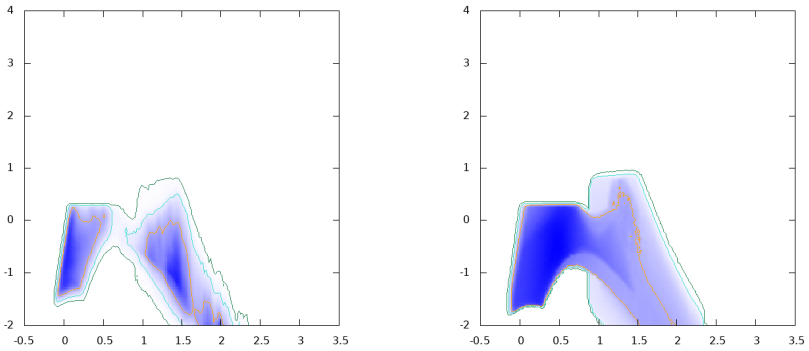

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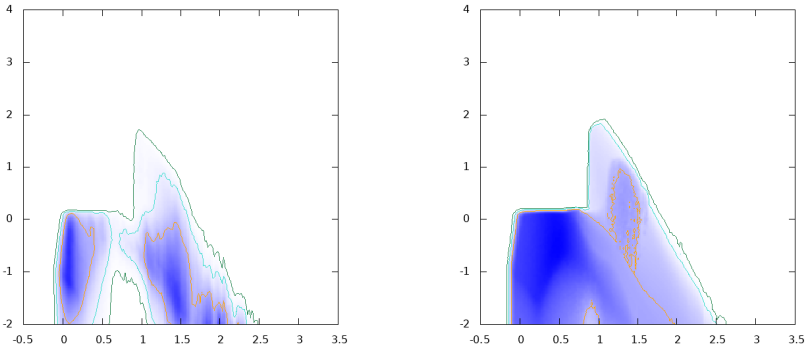

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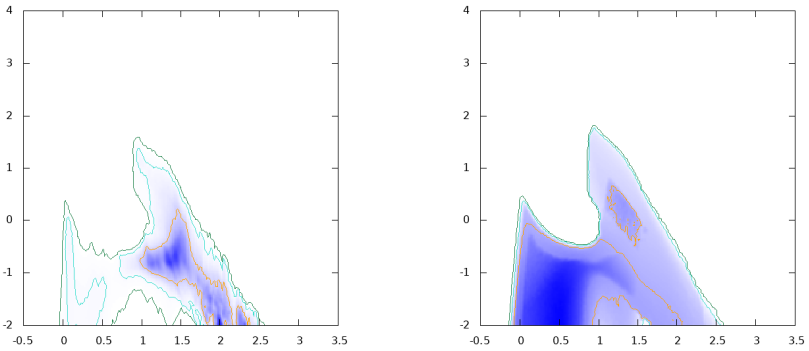

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Figure 10: $\log_{10}\sigma(pp \to A \to HZ)$ (fb) vs. $\log_{10}\tan\beta$

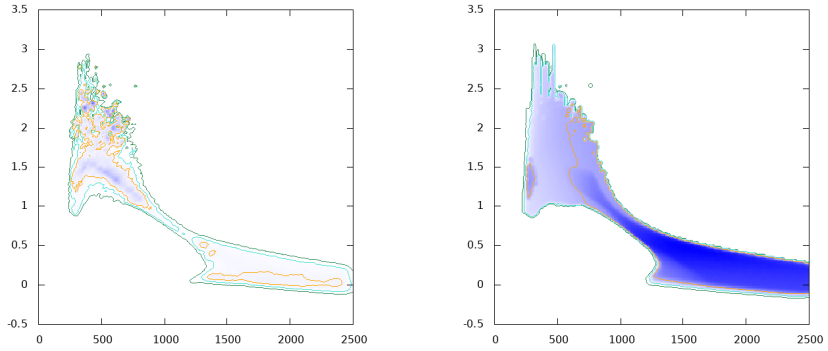

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Figure 11: $\log_{10}\tan\beta$ vs. m_H GeV

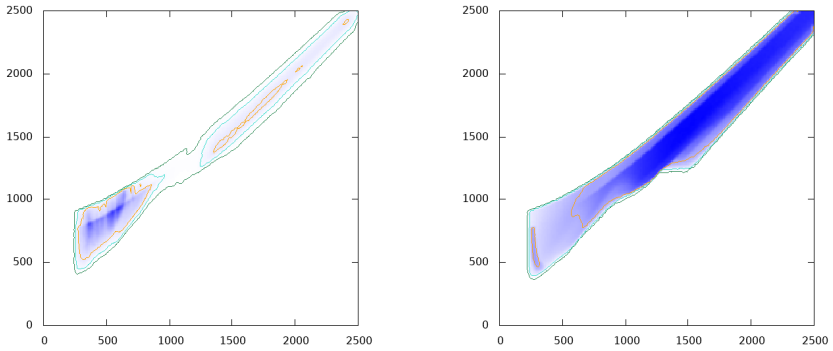

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Figure 12: m_A GeV vs. m_H GeV

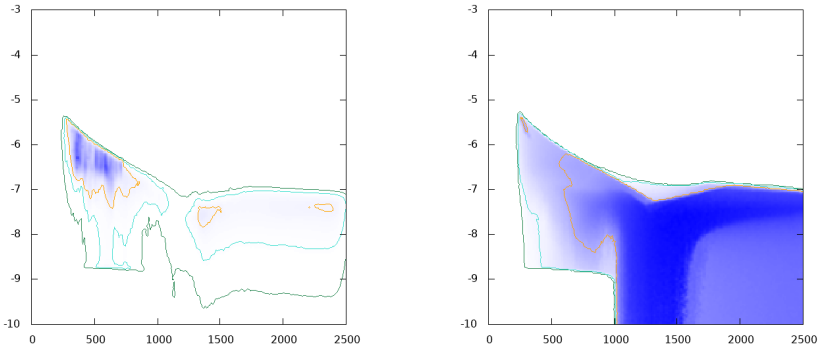

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Figure 13: $\log_{10}|\delta a_\tau|$ vs. m_H GeV

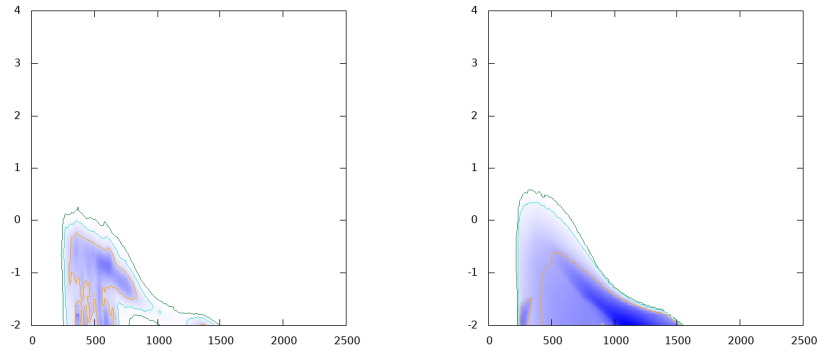

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Figure 14: $\log_{10}\sigma(pp \to H \to e^+e^-)$ (fb) vs. m_H GeV

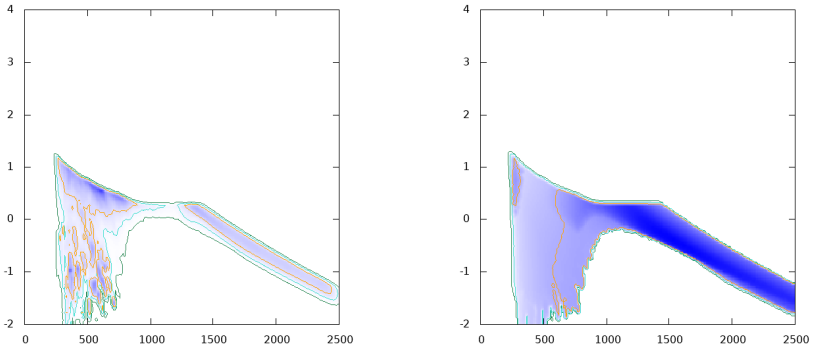

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Figure 15: $\log_{10}\sigma(pp \to H \to \mu^+\mu^-)$ (fb) vs. m_H GeV

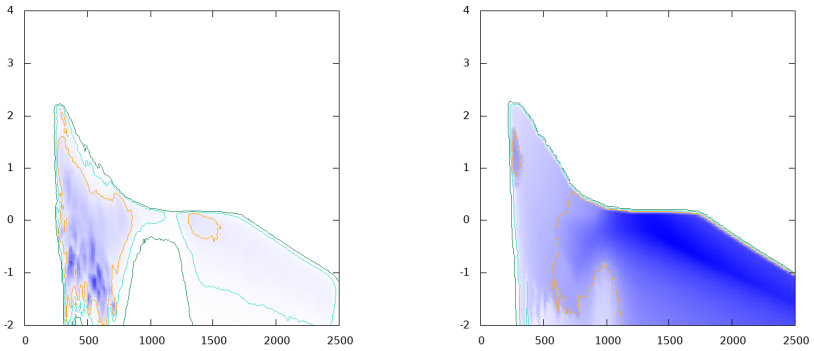

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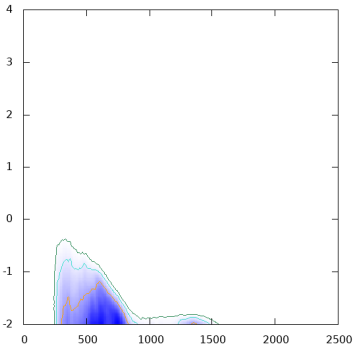
Figure 16: $\log_{10}\sigma(pp \to H \to \tau^+\tau^-)$ (fb) vs. m_H GeV



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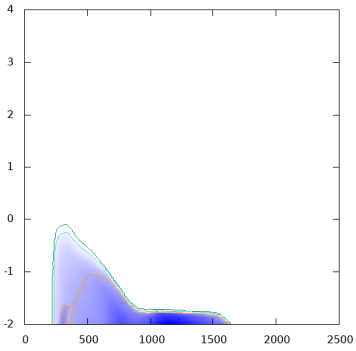

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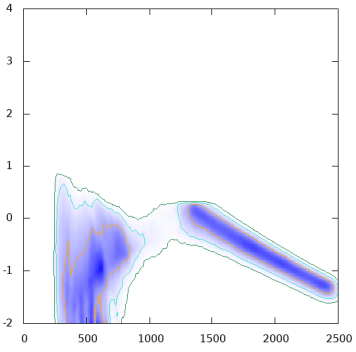

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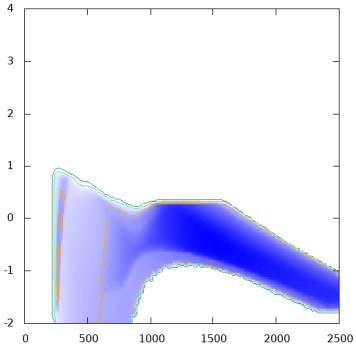

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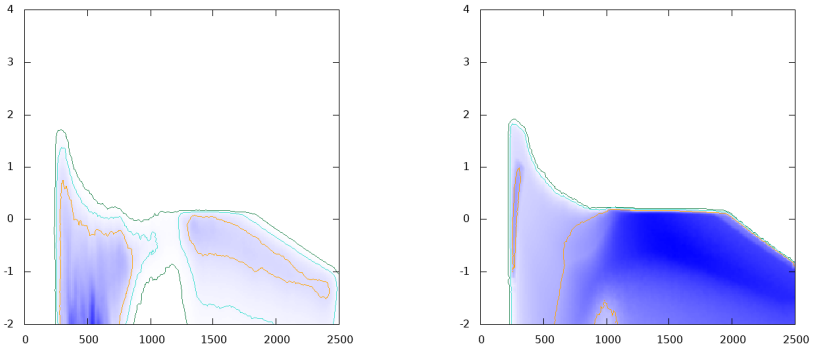
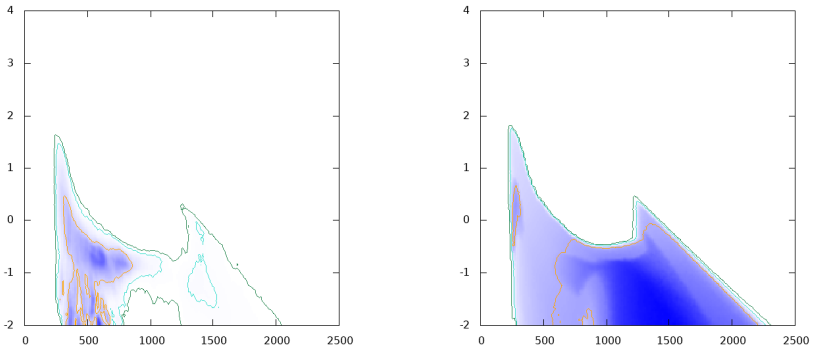
Figure 18: $\log_{10}\sigma(pp \to A \to \mu^+\mu^-)$ (fb) vs. m_H GeV



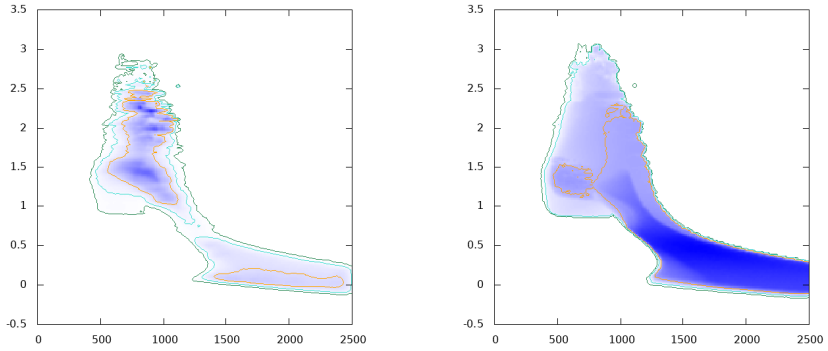
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 19: $\log_{10}\sigma(pp \to A \to \tau^+\tau^-)$ (fb) vs. m_H GeV



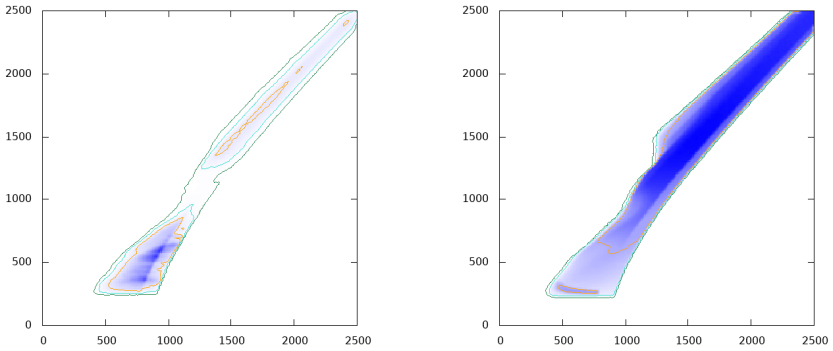
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 20: $\log_{10}\sigma(pp \to A \to HZ)$ (fb) vs. m_H GeV



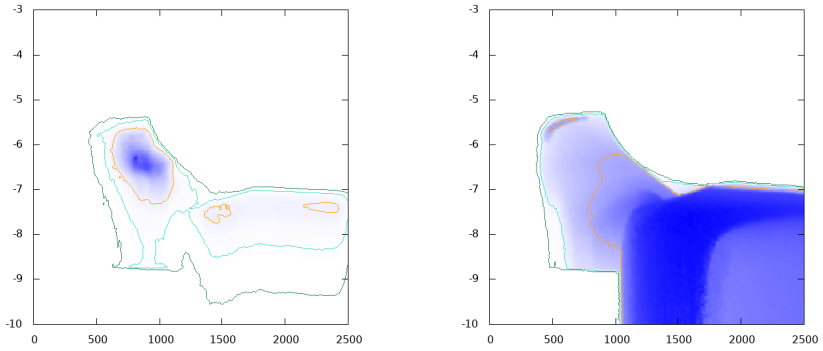
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 21: $\log_{10}\tan\beta$ vs. m_A GeV



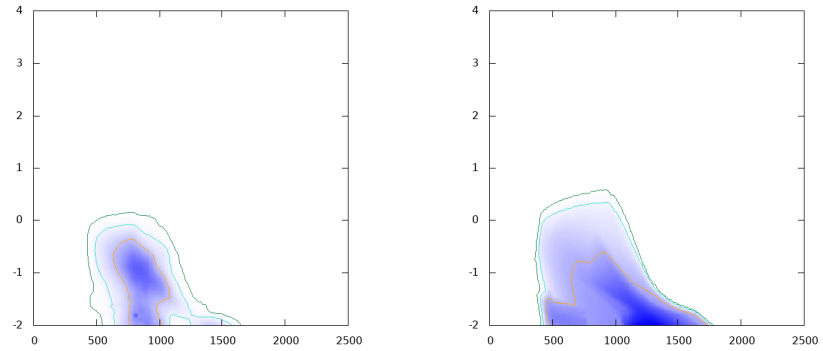
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 22: m_H GeV vs. m_A GeV



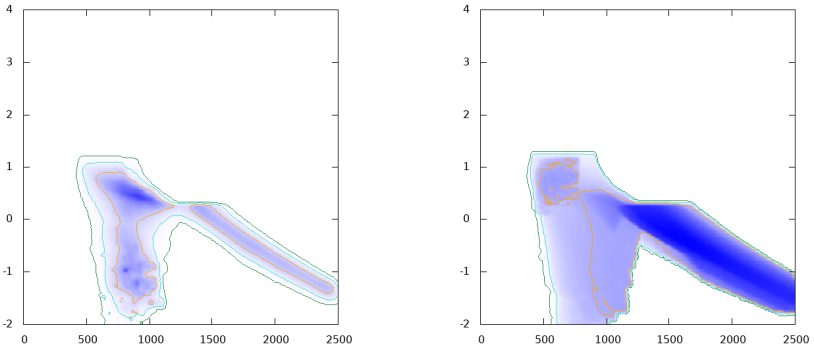
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 23: $\log_{10}|\delta a_\tau|$ vs. m_A GeV



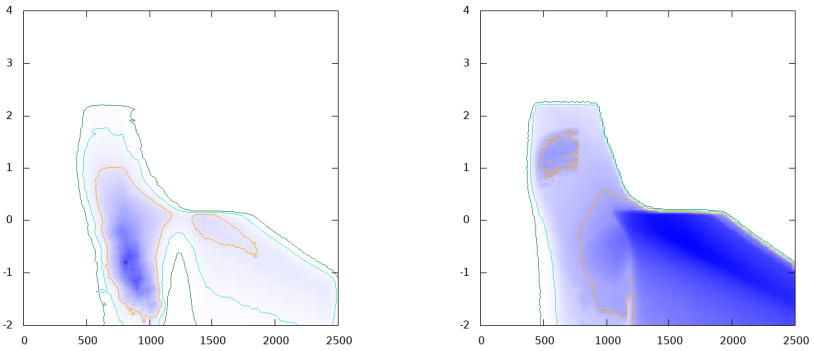
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 24: $\log_{10}\sigma(pp \to H \to e^+e^-)$ (fb) vs. m_A GeV



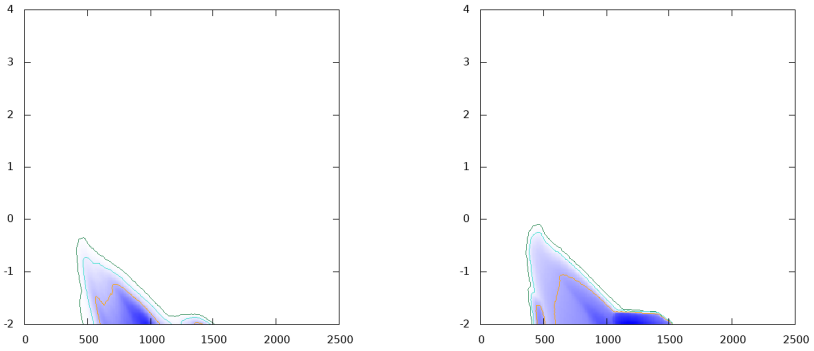
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 25: $\log_{10}\sigma(pp \to H \to \mu^+\mu^-)$ (fb) vs. m_A GeV



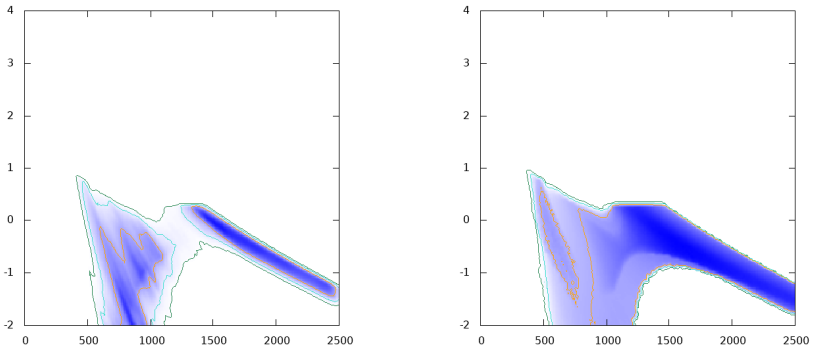
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 26: $\log_{10}\sigma(pp \to H \to \tau^+\tau^-)$ (fb) vs. m_A GeV



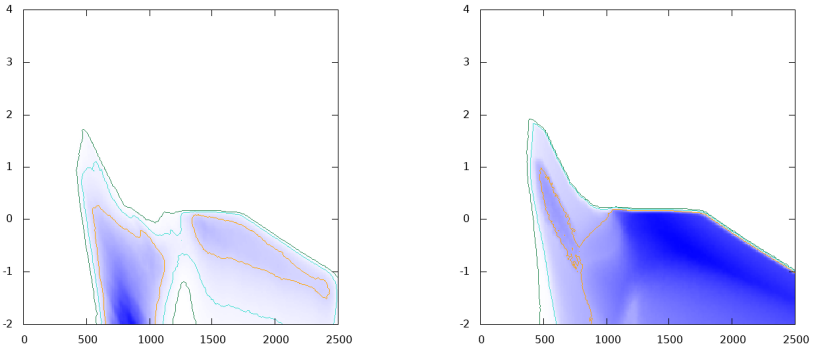
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 27: $\log_{10}\sigma(pp \to A \to e^+e^-)$ (fb) vs. m_A GeV



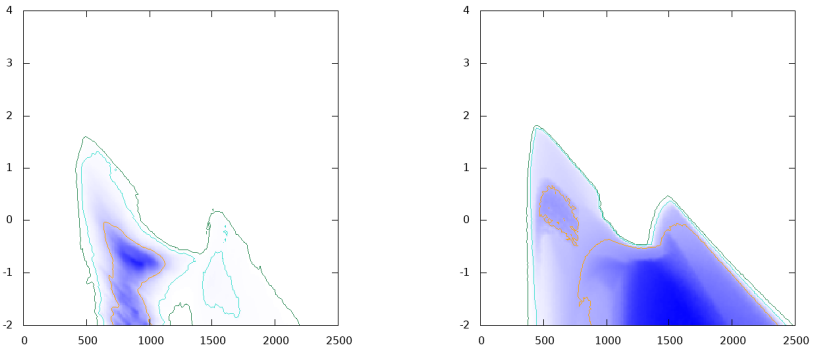
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 28: $\log_{10}\sigma(pp \to A \to \mu^+\mu^-)$ (fb) vs. m_A GeV



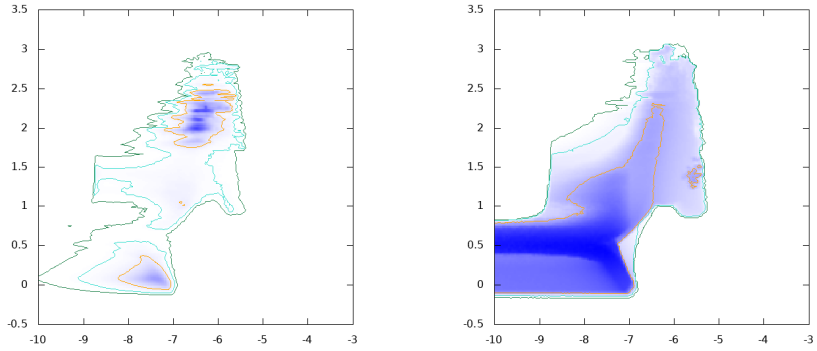
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 29: $\log_{10}\sigma(pp \to A \to \tau^+\tau^-)$ (fb) vs. m_A GeV



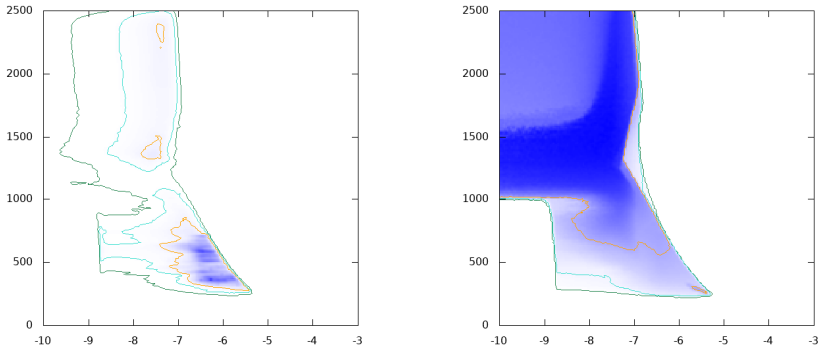
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 30: $\log_{10}\sigma(pp \to A \to HZ)$ (fb) vs. m_A GeV



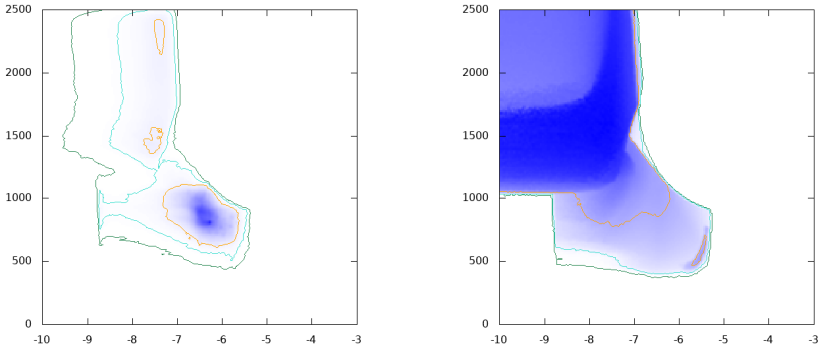
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 31: $\log_{10}\tan\beta$ vs. $\log_{10}|\delta a_\tau|$



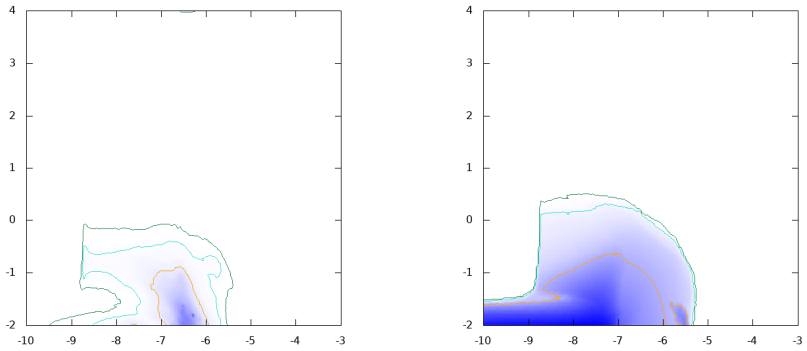
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 32: m_H GeV vs. $\log_{10}|\delta a_\tau|$



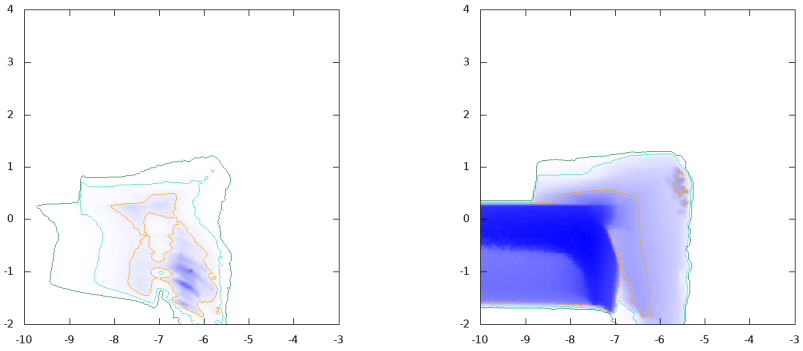
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 33: m_A GeV vs. $\log_{10}|\delta a_\tau|$



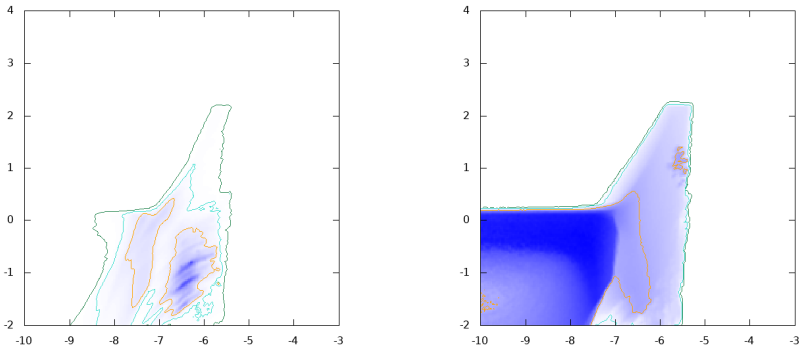
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 34: $\log_{10}\sigma(pp \to H \to e^+e^-)$ (fb) vs. $\log_{10}|\delta a_\tau|$



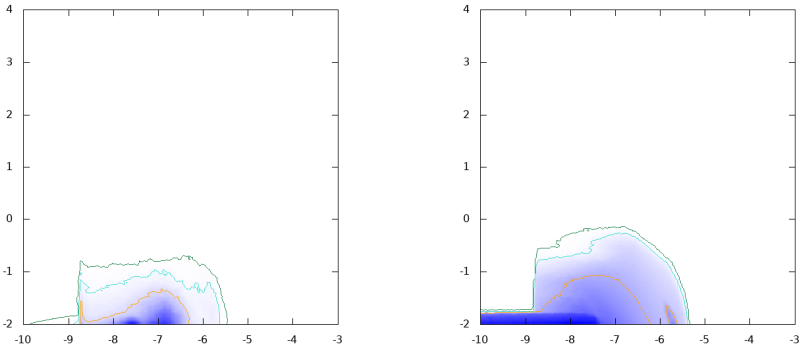
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 35: $\log_{10}\sigma(pp \to H \to \mu^+\mu^-)$ (fb) vs. $\log_{10}|\delta a_\tau|$



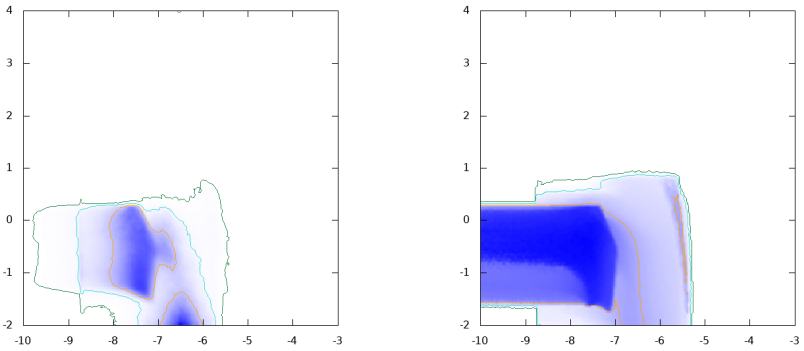
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 36: $\log_{10}\sigma(pp \to H \to \tau^+\tau^-)$ (fb) vs. $\log_{10}|\delta a_\tau|$



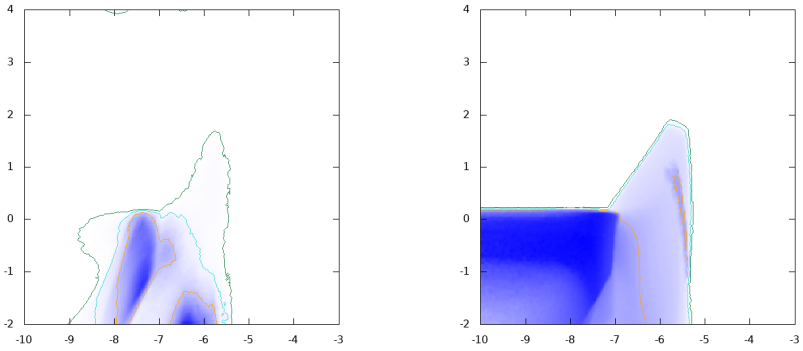
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 37: $\log_{10}\sigma(pp \to A \to e^+e^-)$ (fb) vs. $\log_{10}|\delta a_\tau|$



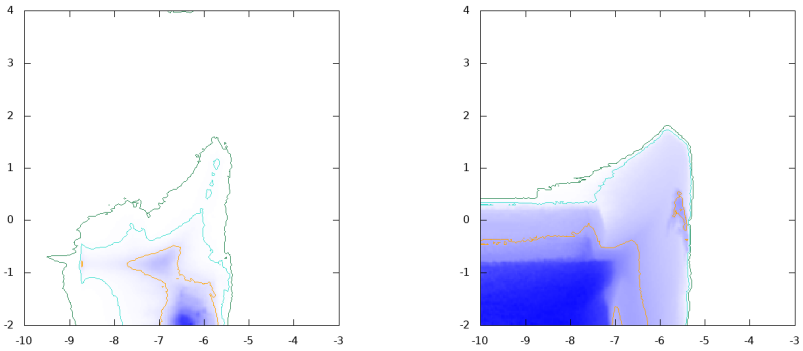
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 38: $\log_{10}\sigma(pp \to A \to \mu^+\mu^-)$ (fb) vs. $\log_{10}|\delta a_\tau|$



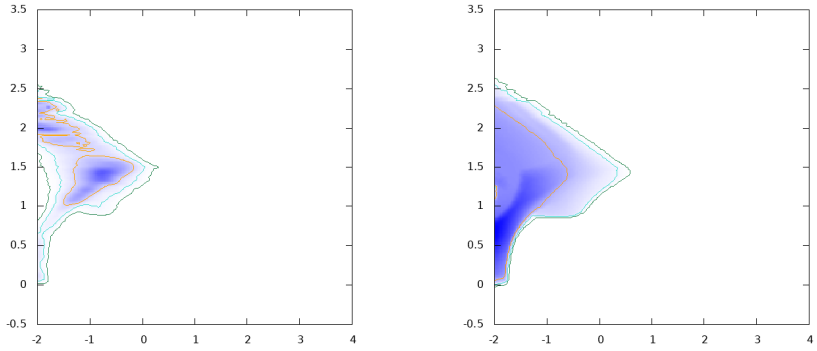
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 39: $\log_{10}\sigma(pp \to A \to \tau^+\tau^-)$ (fb) vs. $\log_{10}|\delta a_\tau|$



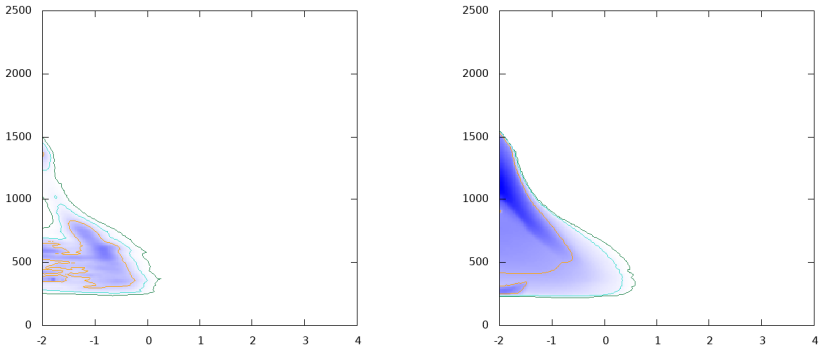
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 40: $\log_{10}\sigma(pp \to A \to HZ)$ (fb) vs. $\log_{10}|\delta a_\tau|$



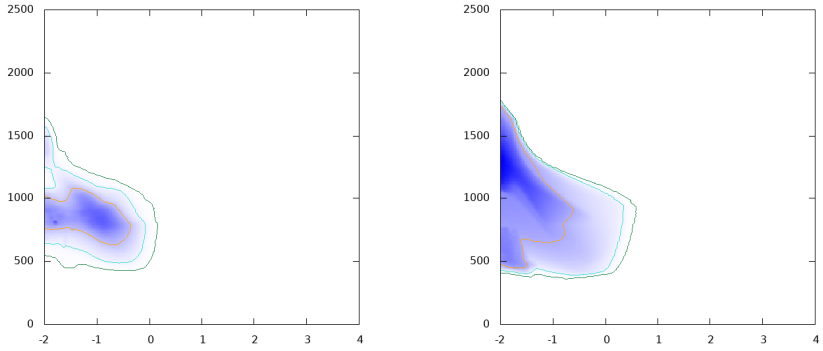
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 41: $\log_{10}\tan\beta$ vs. $\log_{10}\sigma(pp \to H \to e^+e^-)$ (fb)



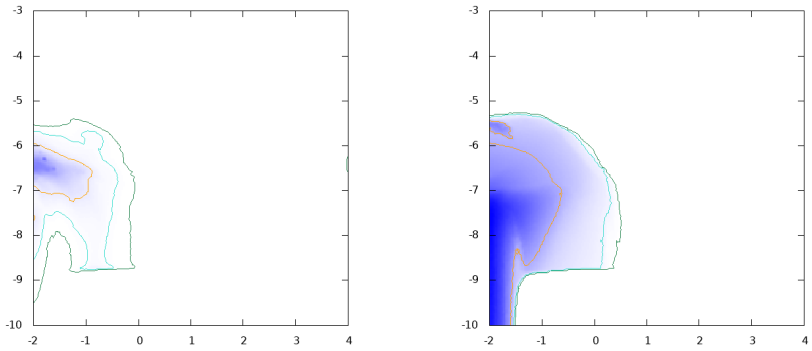
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 42: m_H GeV vs. $\log_{10}\sigma(pp \to H \to e^+e^-)$ (fb)



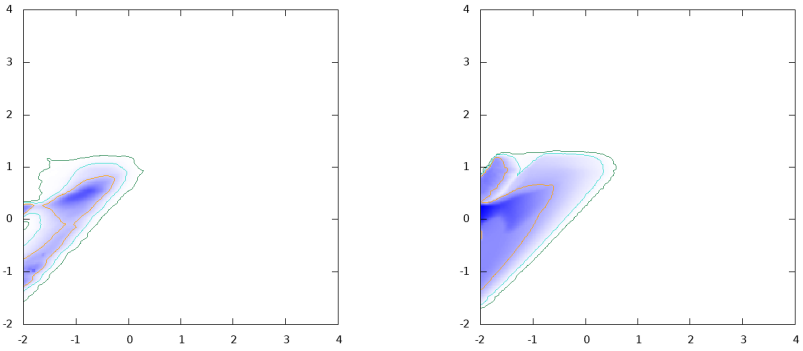
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 43: m_A GeV vs. $\log_{10}\sigma(pp \to H \to e^+e^-)$ (fb)



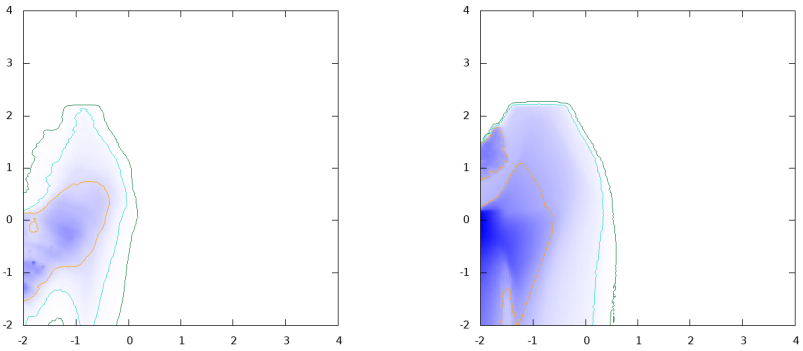
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 44: $\log_{10}|\delta a_\tau|$ vs. $\log_{10}\sigma(pp \to H \to e^+e^-)$ (fb)



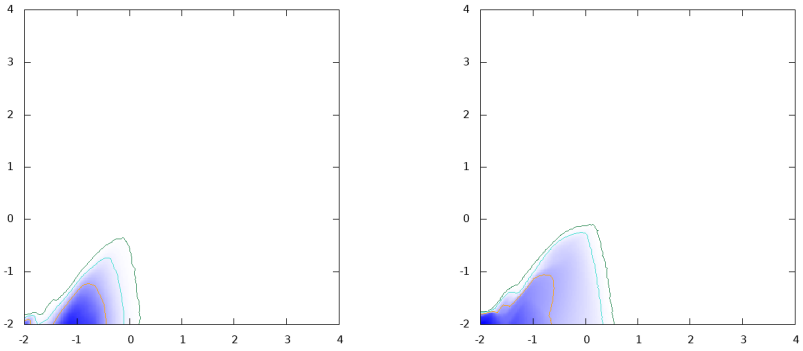
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 45: $\log_{10}\sigma(pp \to H \to \mu^+\mu^-)$ (fb) vs. $\log_{10}\sigma(pp \to H \to e^+e^-)$ (fb)



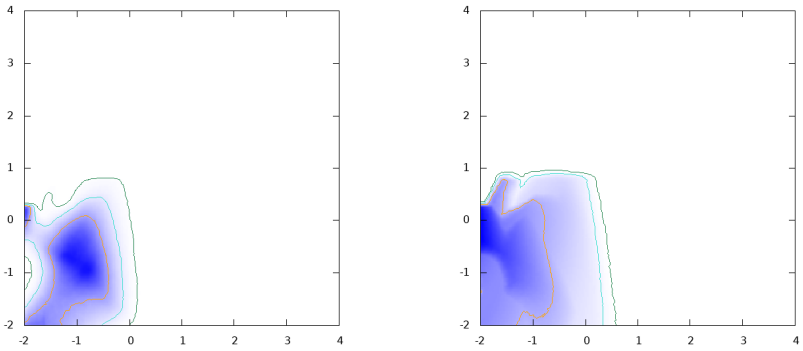
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 46: $\log_{10}\sigma(pp \to H \to \tau^+\tau^-)$ (fb) vs. $\log_{10}\sigma(pp \to H \to e^+e^-)$ (fb)



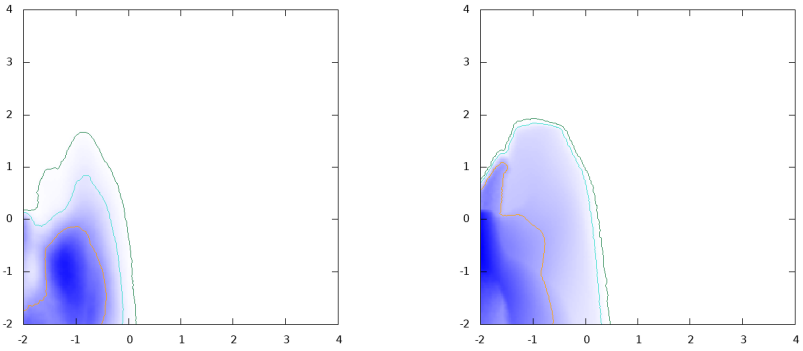
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 47: $\log_{10}\sigma(pp \to A \to e^+e^-)$ (fb) vs. $\log_{10}\sigma(pp \to H \to e^+e^-)$ (fb)



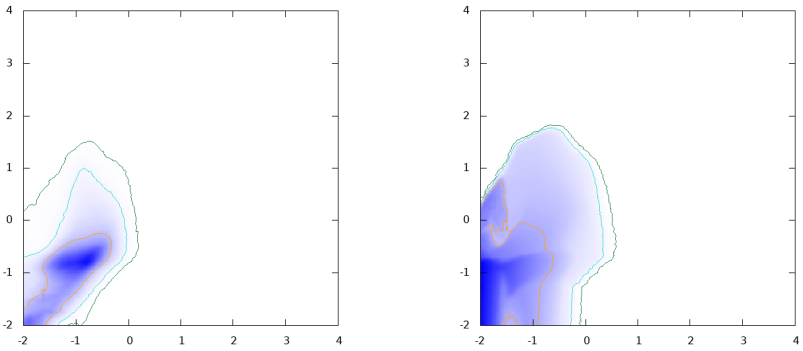
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 48: $\log_{10}\sigma(pp \to A \to \mu^+\mu^-)$ (fb) vs. $\log_{10}\sigma(pp \to H \to e^+e^-)$ (fb)



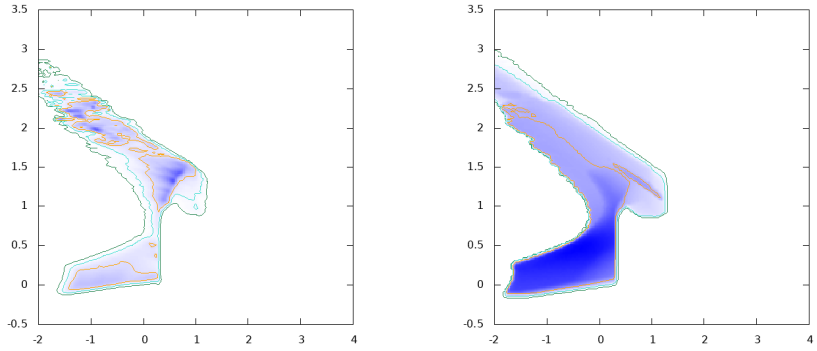
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 49: $\log_{10}\sigma(pp \to A \to \tau^+\tau^-)$ (fb) vs. $\log_{10}\sigma(pp \to H \to e^+e^-)$ (fb)



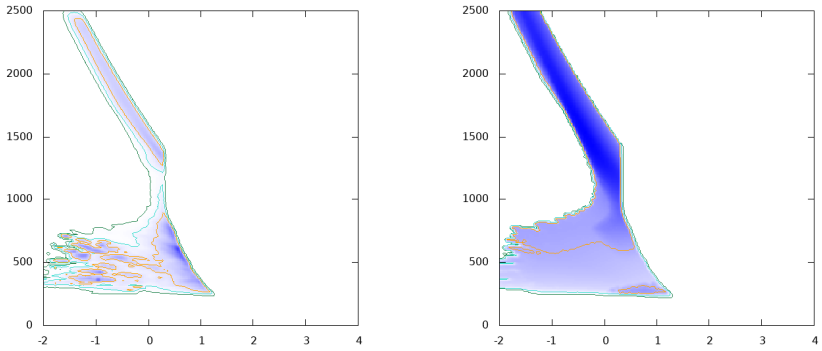
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 50: $\log_{10}\sigma(pp \to A \to HZ)$ (fb) vs. $\log_{10}\sigma(pp \to H \to e^+e^-)$ (fb)



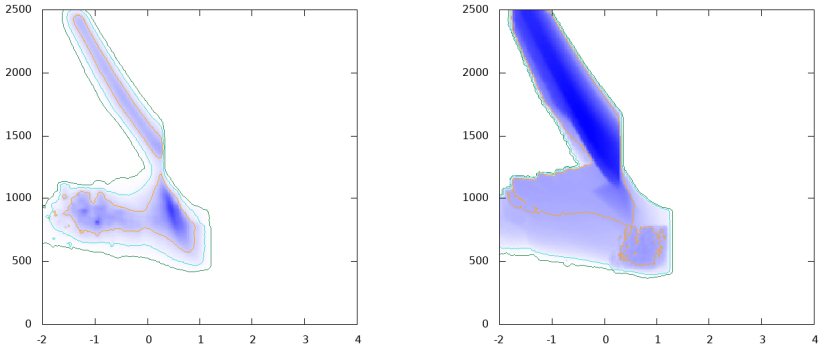
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 51: $\log_{10}\tan\beta$ vs. $\log_{10}\sigma(pp \to H \to \mu^+\mu^-)$ (fb)



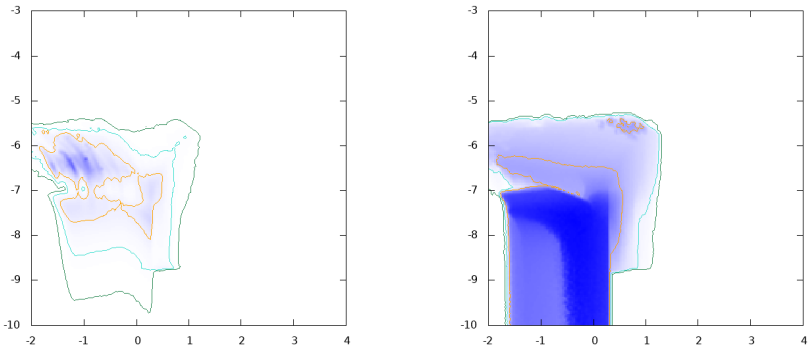
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 52: m_H GeV vs. $\log_{10}\sigma(pp \to H \to \mu^+\mu^-)$ (fb)



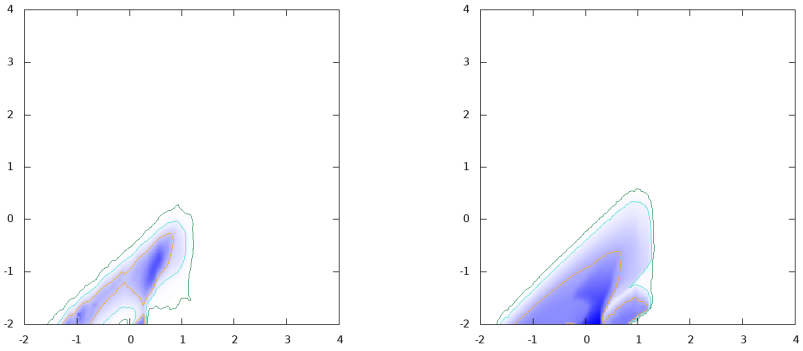
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 53: m_A GeV vs. $\log_{10}\sigma(pp \to H \to \mu^+\mu^-)$ (fb)



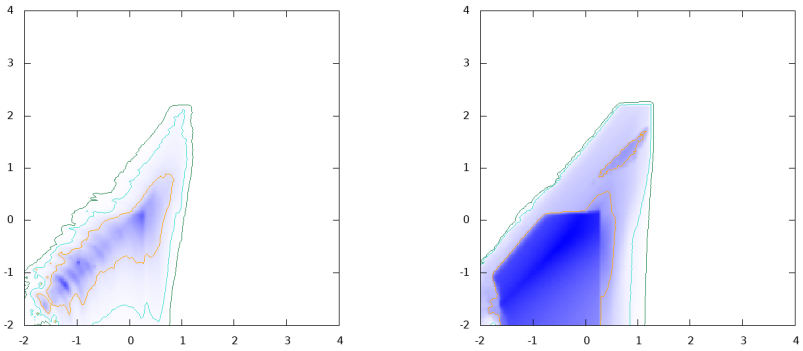
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 54: $\log_{10}|\delta a_\tau|$ vs. $\log_{10}\sigma(pp \to H \to \mu^+\mu^-)$ (fb)



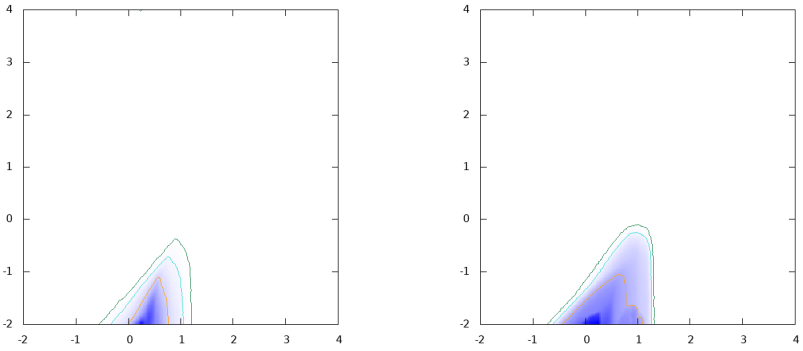
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 55: $\log_{10}\sigma(pp \to H \to e^+e^-)$ (fb) vs. $\log_{10}\sigma(pp \to H \to \mu^+\mu^-)$ (fb)



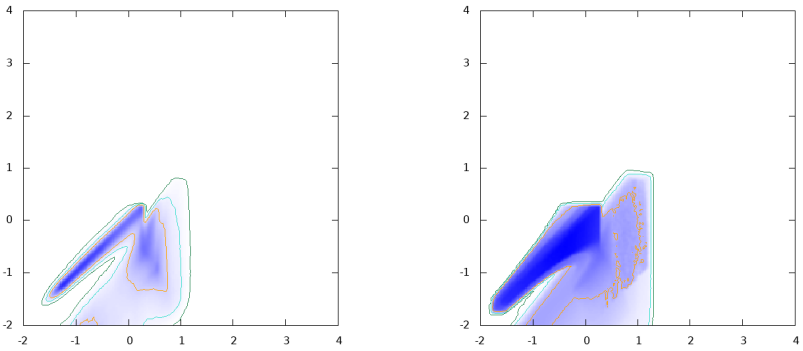
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 56: $\log_{10}\sigma(pp \to H \to \tau^+\tau^-)$ (fb) vs. $\log_{10}\sigma(pp \to H \to \mu^+\mu^-)$ (fb)



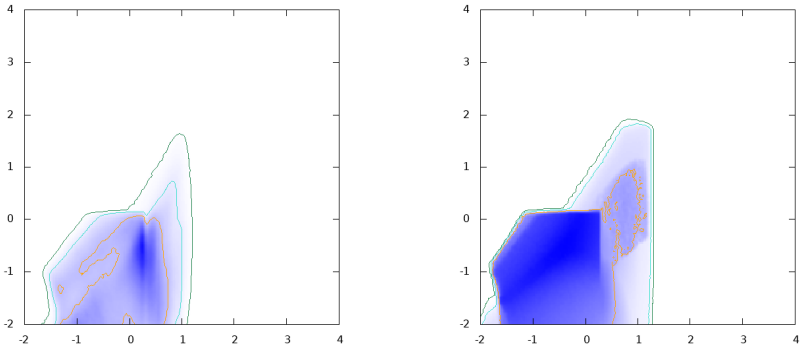
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 57: $\log_{10}\sigma(pp \to A \to e^+e^-)$ (fb) vs. $\log_{10}\sigma(pp \to H \to \mu^+\mu^-)$ (fb)



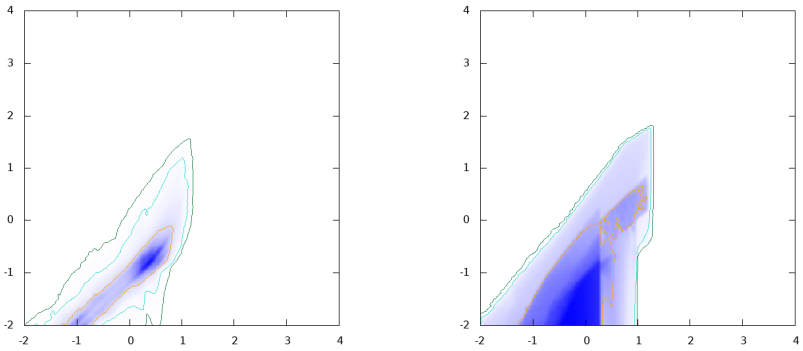
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 58: $\log_{10}\sigma(pp \to A \to \mu^+\mu^-)$ (fb) vs. $\log_{10}\sigma(pp \to H \to \mu^+\mu^-)$ (fb)



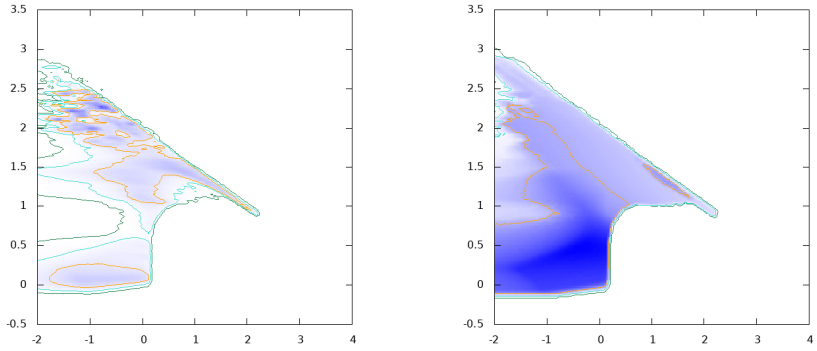
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 59: $\log_{10}\sigma(pp \to A \to \tau^+\tau^-)$ (fb) vs. $\log_{10}\sigma(pp \to H \to \mu^+\mu^-)$ (fb)



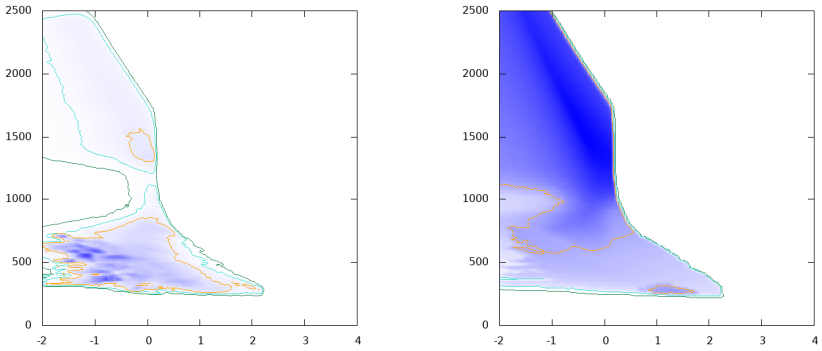
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 60: $\log_{10}\sigma(pp \to A \to HZ)$ (fb) vs. $\log_{10}\sigma(pp \to H \to \mu^+\mu^-)$ (fb)



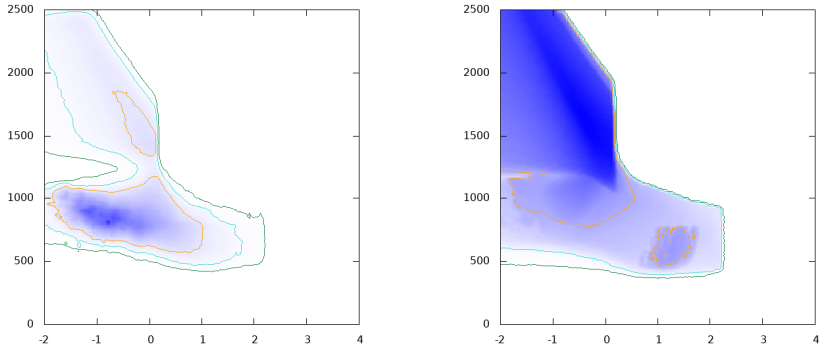
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 61: $\log_{10}\tan\beta$ vs. $\log_{10}\sigma(pp \to H \to \tau^+\tau^-)$ (fb)



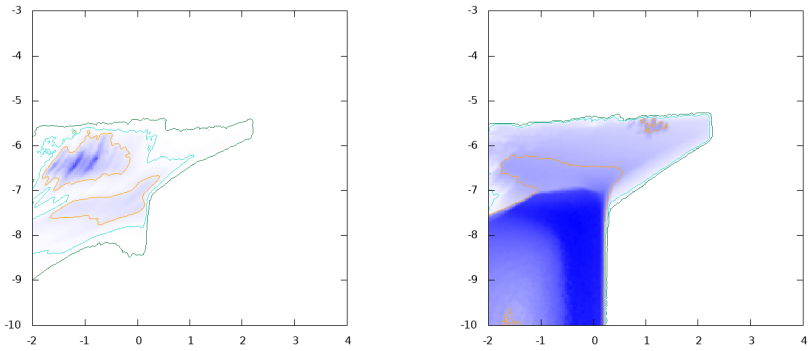
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 62: m_H GeV vs. $\log_{10}\sigma(pp \to H \to \tau^+\tau^-)$ (fb)



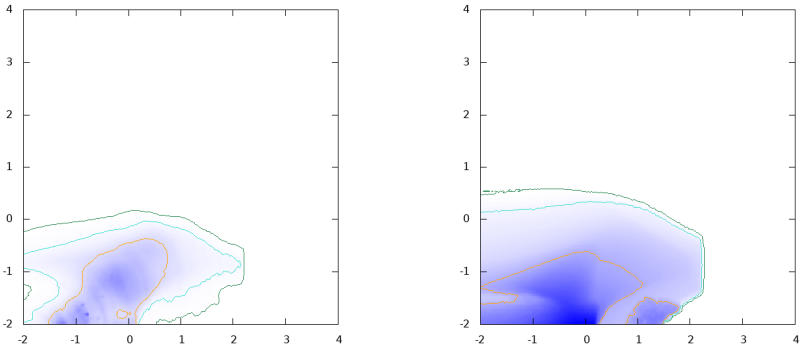
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 63: m_A GeV vs. $\log_{10}\sigma(pp \to H \to \tau^+\tau^-)$ (fb)



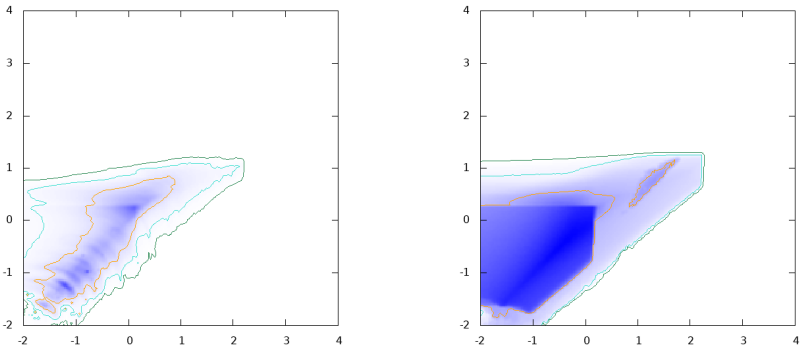
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 64: $\log_{10}|\delta a_\tau|$ vs. $\log_{10}\sigma(pp \to H \to \tau^+\tau^-)$ (fb)



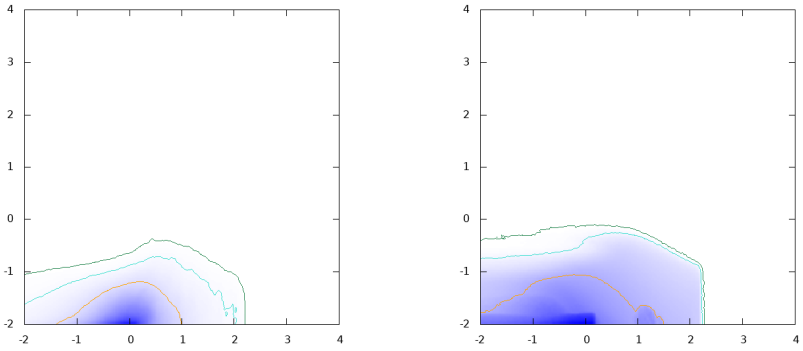
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 65: $\log_{10}\sigma(pp \to H \to e^+e^-)$ (fb) vs. $\log_{10}\sigma(pp \to H \to \tau^+\tau^-)$ (fb)



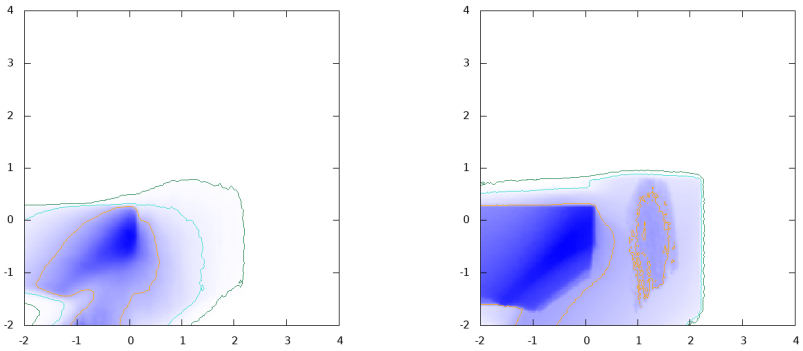
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 66: $\log_{10}\sigma(pp \to H \to \mu^+\mu^-)$ (fb) vs. $\log_{10}\sigma(pp \to H \to \tau^+\tau^-)$ (fb)



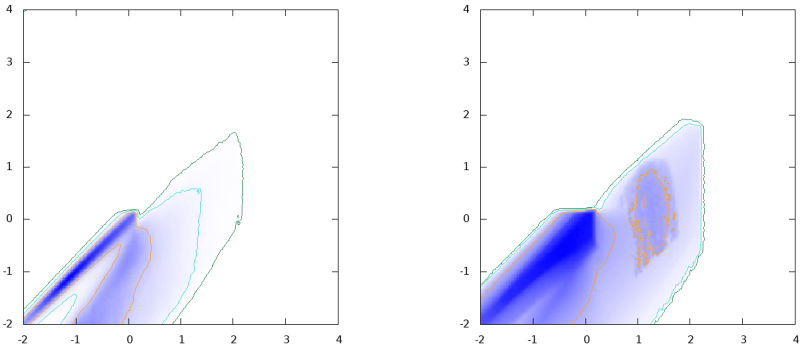
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 67: $\log_{10}\sigma(pp \to A \to e^+e^-)$ (fb) vs. $\log_{10}\sigma(pp \to H \to \tau^+\tau^-)$ (fb)



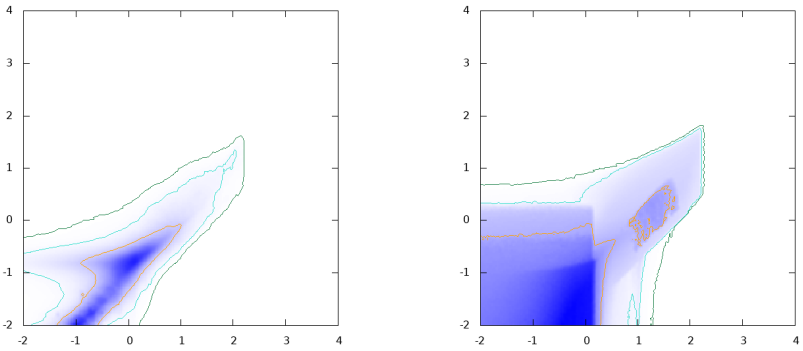
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 68: $\log_{10}\sigma(pp \to A \to \mu^+\mu^-)$ (fb) vs. $\log_{10}\sigma(pp \to H \to \tau^+\tau^-)$ (fb)



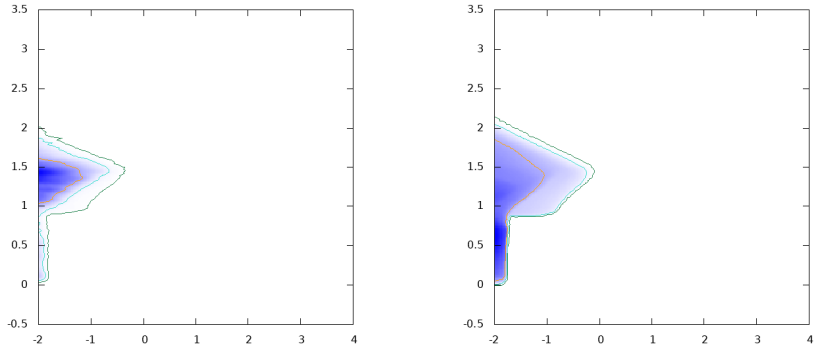
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 69: $\log_{10}\sigma(pp \to A \to \tau^+\tau^-)$ (fb) vs. $\log_{10}\sigma(pp \to H \to \tau^+\tau^-)$ (fb)



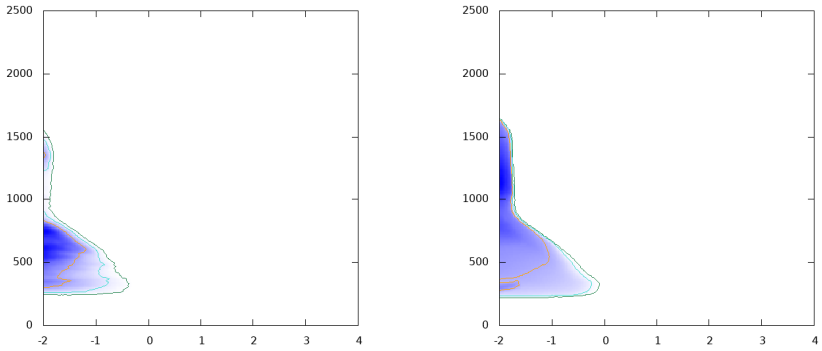
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 70: $\log_{10}\sigma(pp \to A \to HZ)$ (fb) vs. $\log_{10}\sigma(pp \to H \to \tau^+\tau^-)$ (fb)



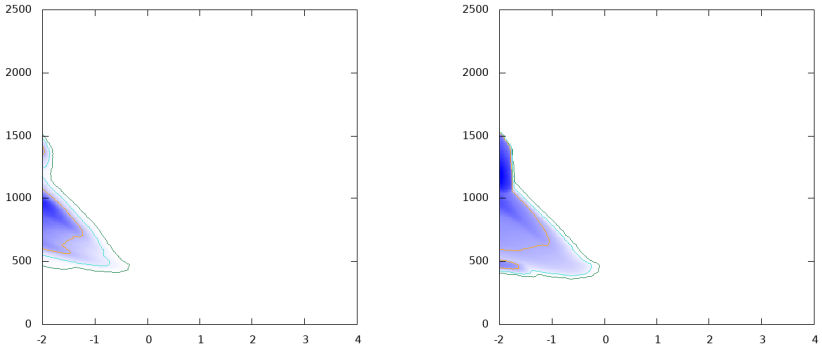
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 71: $\log_{10}\tan\beta$ vs. $\log_{10}\sigma(pp \to A \to e^+e^-)$ (fb)



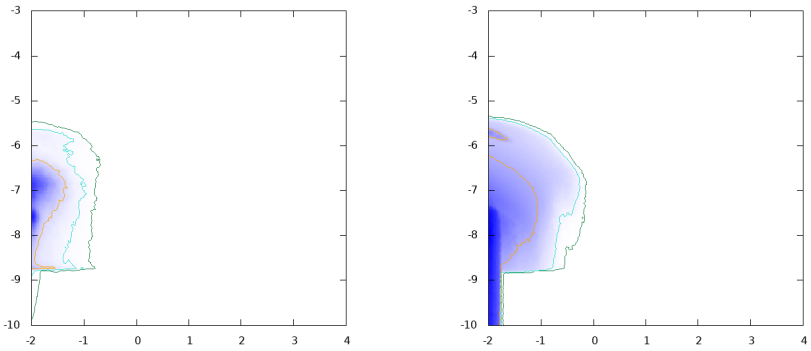
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 72: m_H GeV vs. $\log_{10}\sigma(pp \to A \to e^+e^-)$ (fb)



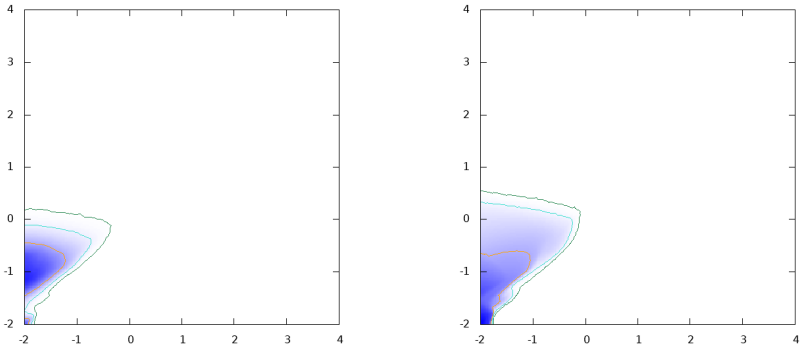
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 73: m_A GeV vs. $\log_{10}\sigma(pp \to A \to e^+e^-)$ (fb)



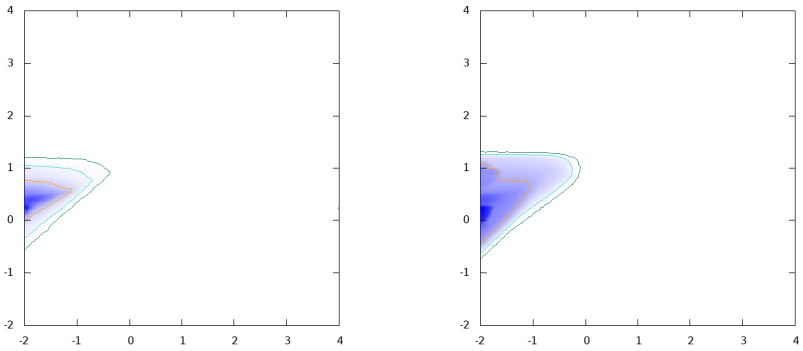
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 74: $\log_{10}|\delta a_\tau|$ vs. $\log_{10}\sigma(pp \to A \to e^+e^-)$ (fb)



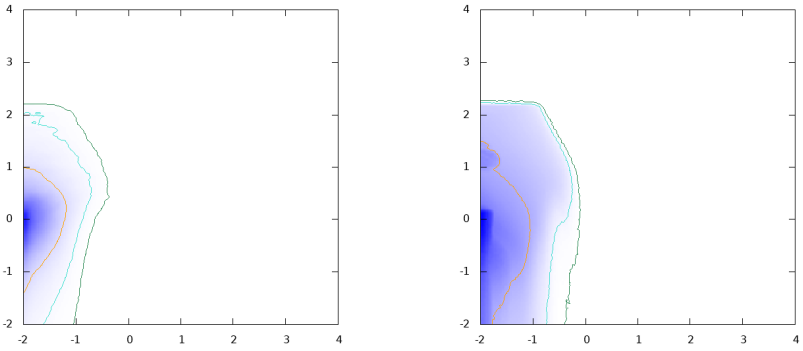
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 75: $\log_{10}\sigma(pp \to H \to e^+e^-)$ (fb) vs. $\log_{10}\sigma(pp \to A \to e^+e^-)$ (fb)



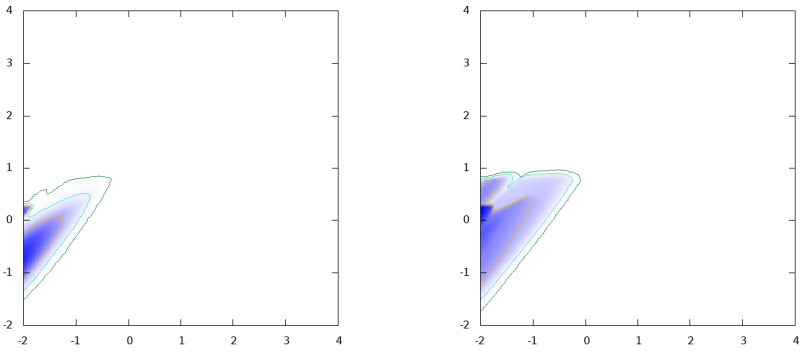
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 76: $\log_{10}\sigma(pp \to H \to \mu^+\mu^-)$ (fb) vs. $\log_{10}\sigma(pp \to A \to e^+e^-)$ (fb)



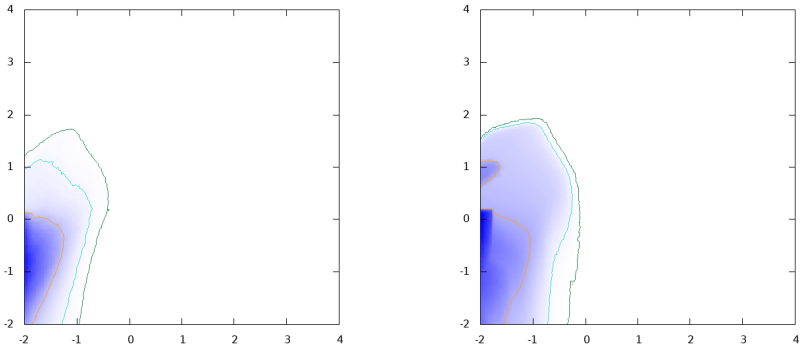
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 77: $\log_{10}\sigma(pp \to H \to \tau^+\tau^-)$ (fb) vs. $\log_{10}\sigma(pp \to A \to e^+e^-)$ (fb)



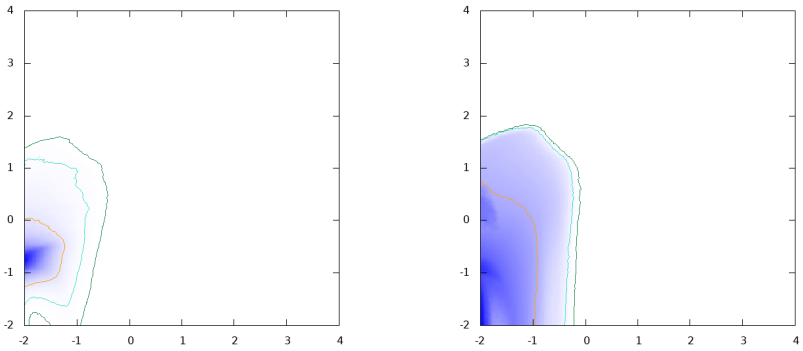
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 78: $\log_{10}\sigma(pp \to A \to \mu^+\mu^-)$ (fb) vs. $\log_{10}\sigma(pp \to A \to e^+e^-)$ (fb)



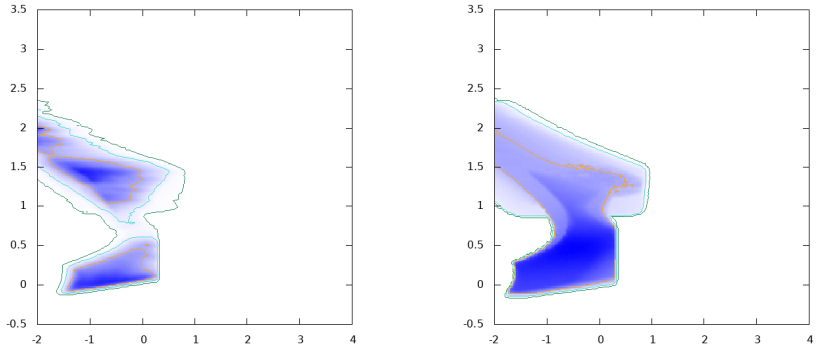
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 79: $\log_{10}\sigma(pp \to A \to \tau^+\tau^-)$ (fb) vs. $\log_{10}\sigma(pp \to A \to e^+e^-)$ (fb)



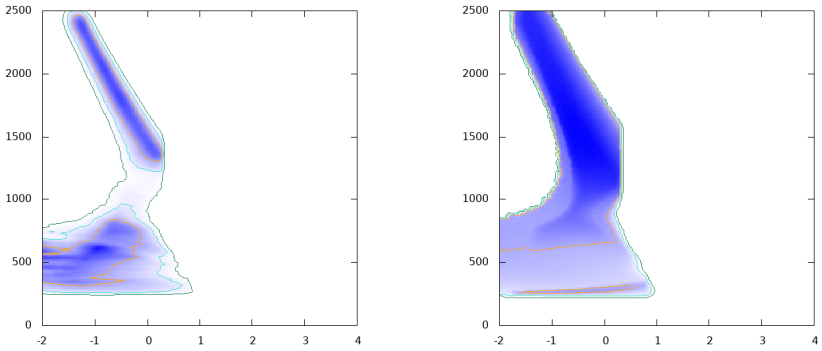
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 80: $\log_{10}\sigma(pp \to A \to HZ)$ (fb) vs. $\log_{10}\sigma(pp \to A \to e^+e^-)$ (fb)



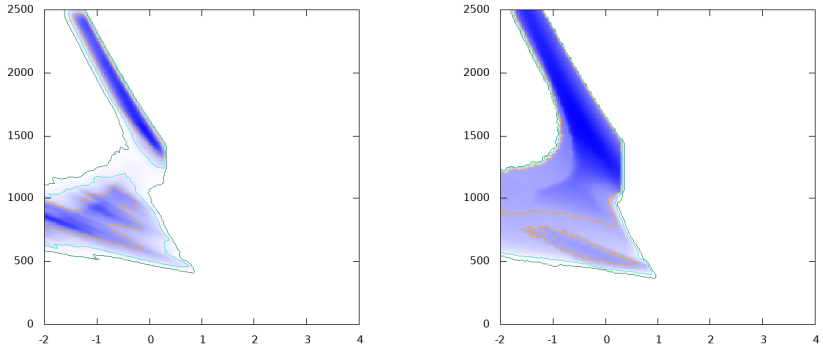
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 81: $\log_{10}\tan\beta$ vs. $\log_{10}\sigma(pp \to A \to \mu^+\mu^-)$ (fb)



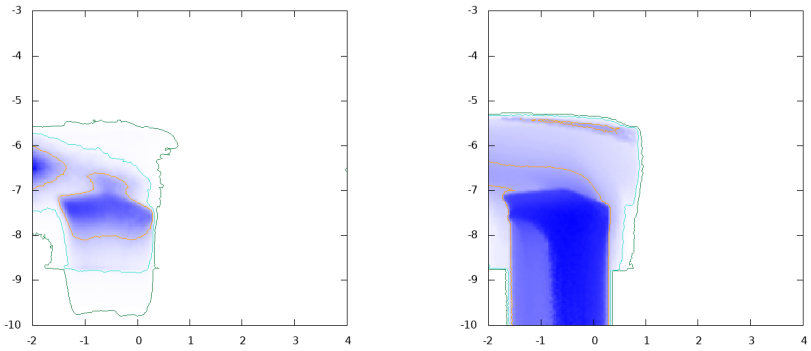
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 82: m_H GeV vs. $\log_{10}\sigma(pp \to A \to \mu^+\mu^-)$ (fb)



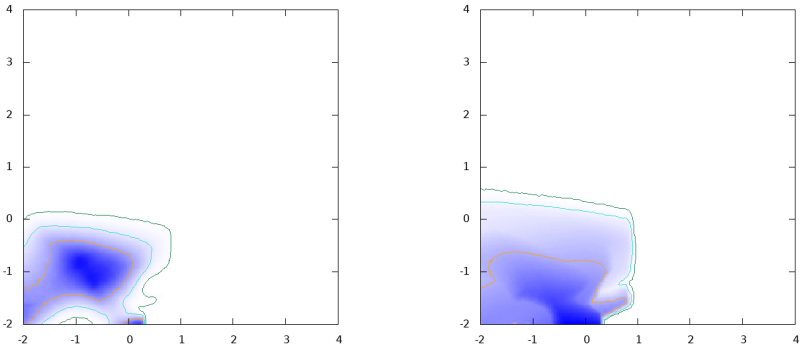
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 83: m_A GeV vs. $\log_{10}\sigma(pp \to A \to \mu^+\mu^-)$ (fb)



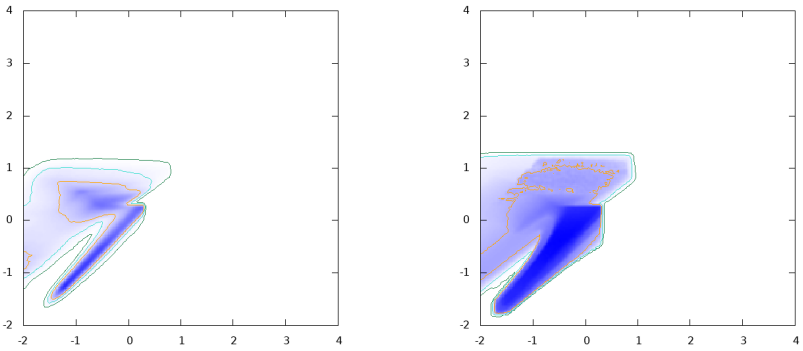
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 84: $\log_{10}|\delta a_\tau|$ vs. $\log_{10}\sigma(pp \to A \to \mu^+\mu^-)$ (fb)



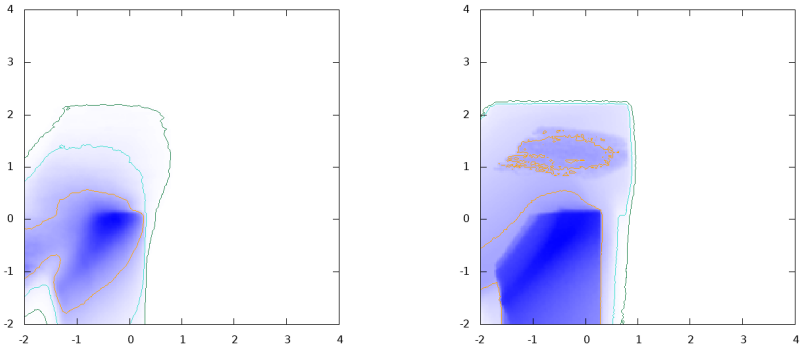
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 85: $\log_{10}\sigma(pp \to H \to e^+e^-)$ (fb) vs. $\log_{10}\sigma(pp \to A \to \mu^+\mu^-)$ (fb)



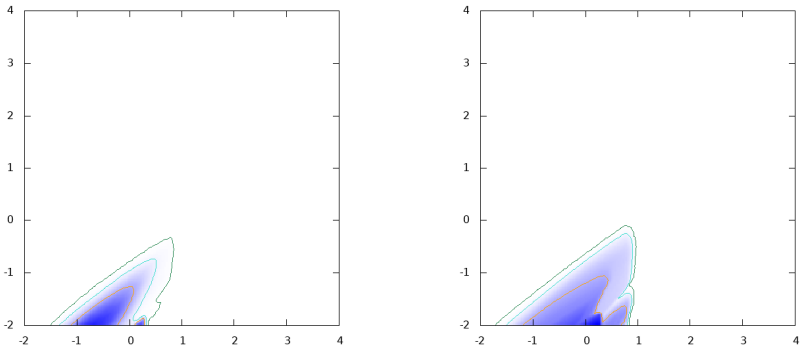
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 86: $\log_{10}\sigma(pp \to H \to \mu^+\mu^-)$ (fb) vs. $\log_{10}\sigma(pp \to A \to \mu^+\mu^-)$ (fb)



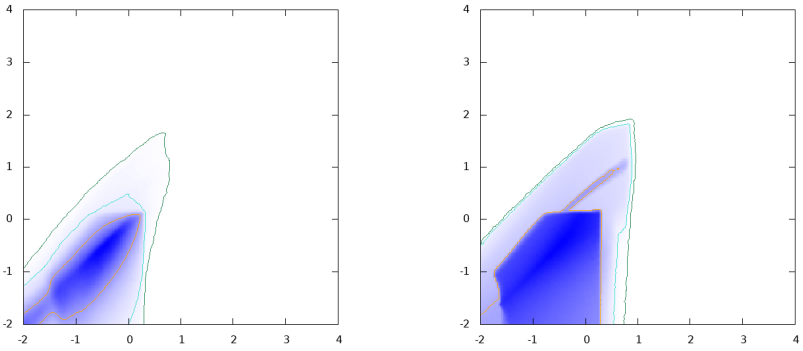
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 87: $\log_{10}\sigma(pp \to H \to \tau^+\tau^-)$ (fb) vs. $\log_{10}\sigma(pp \to A \to \mu^+\mu^-)$ (fb)



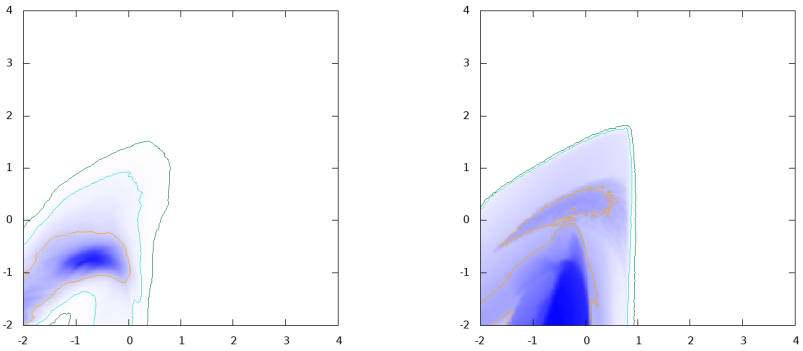
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 88: $\log_{10}\sigma(pp \to A \to e^+e^-)$ (fb) vs. $\log_{10}\sigma(pp \to A \to \mu^+\mu^-)$ (fb)



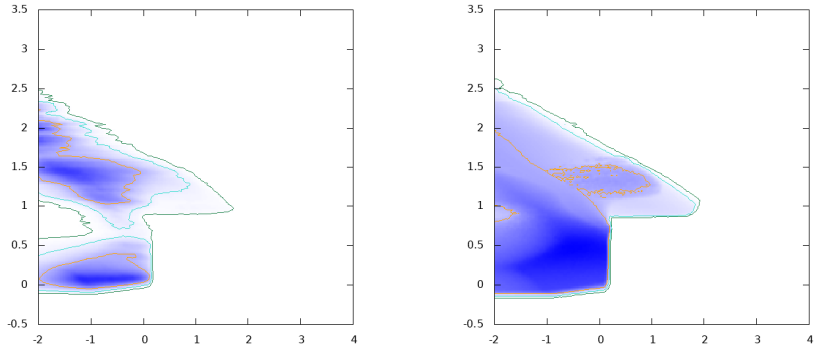
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 89: $\log_{10}\sigma(pp \to A \to \tau^+\tau^-)$ (fb) vs. $\log_{10}\sigma(pp \to A \to \mu^+\mu^-)$ (fb)



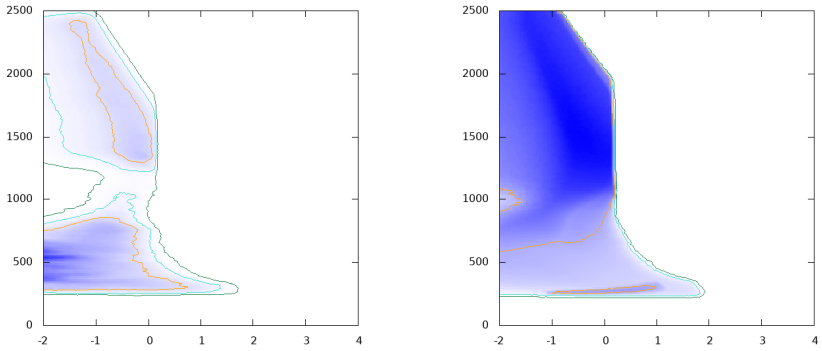
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 90: $\log_{10}\sigma(pp \to A \to HZ)$ (fb) vs. $\log_{10}\sigma(pp \to A \to \mu^+\mu^-)$ (fb)



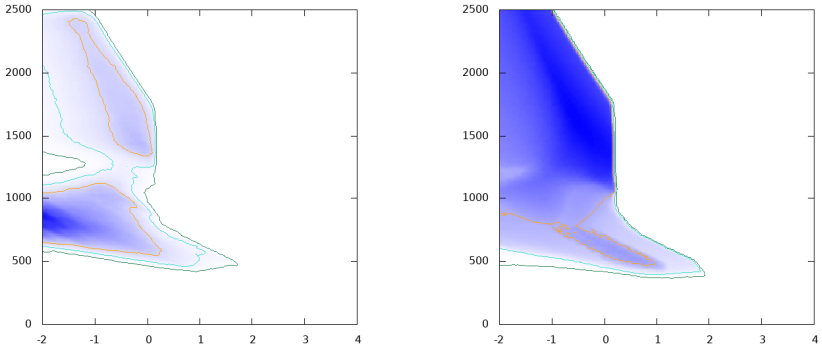
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 91: $\log_{10}\tan\beta$ vs. $\log_{10}\sigma(pp \to A \to \tau^+\tau^-)$ (fb)



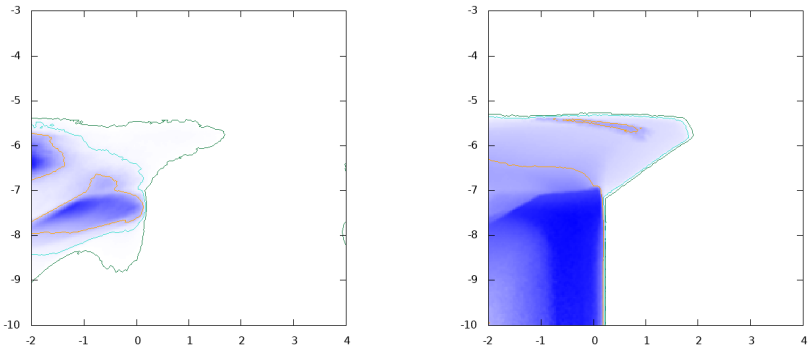
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 92: m_H GeV vs. $\log_{10}\sigma(pp \to A \to \tau^+\tau^-)$ (fb)



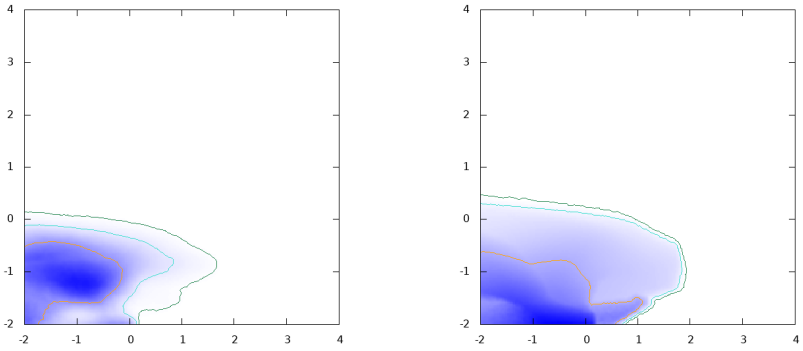
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 93: m_A GeV vs. $\log_{10}\sigma(pp \to A \to \tau^+\tau^-)$ (fb)



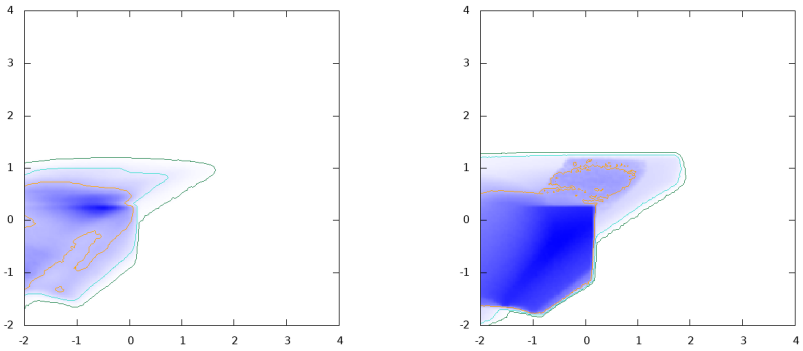
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 94: $\log_{10}|\delta a_\tau|$ vs. $\log_{10}\sigma(pp \to A \to \tau^+\tau^-)$ (fb)



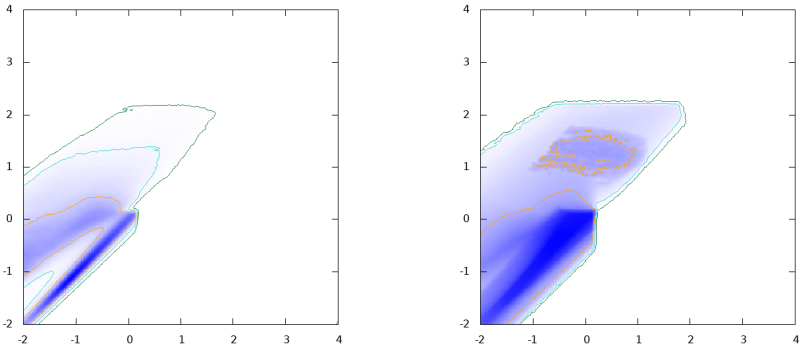
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 95: $\log_{10}\sigma(pp \to H \to e^+e^-)$ (fb) vs. $\log_{10}\sigma(pp \to A \to \tau^+\tau^-)$ (fb)



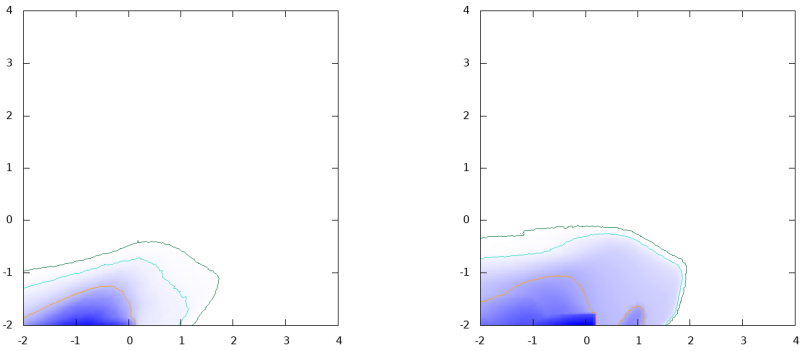
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 96: $\log_{10}\sigma(pp \to H \to \mu^+\mu^-)$ (fb) vs. $\log_{10}\sigma(pp \to A \to \tau^+\tau^-)$ (fb)



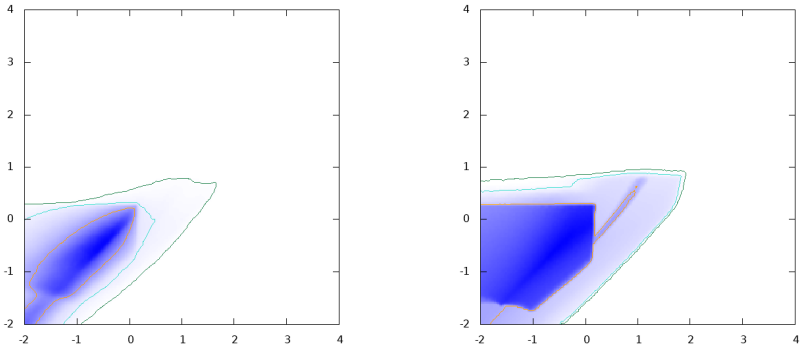
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 97: $\log_{10}\sigma(pp \to H \to \tau^+\tau^-)$ (fb) vs. $\log_{10}\sigma(pp \to A \to \tau^+\tau^-)$ (fb)



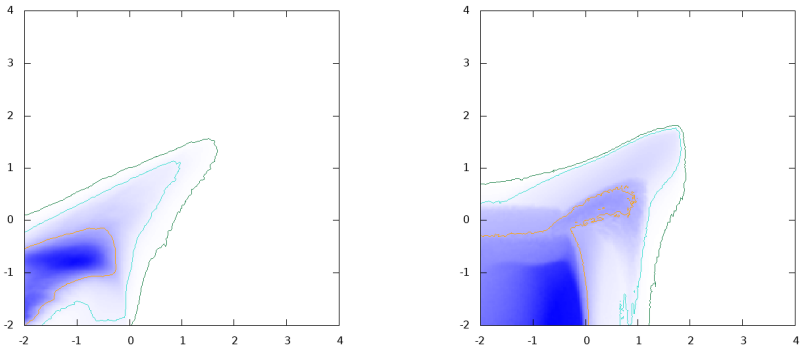
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 98: $\log_{10}\sigma(pp \to A \to e^+e^-)$ (fb) vs. $\log_{10}\sigma(pp \to A \to \tau^+\tau^-)$ (fb)



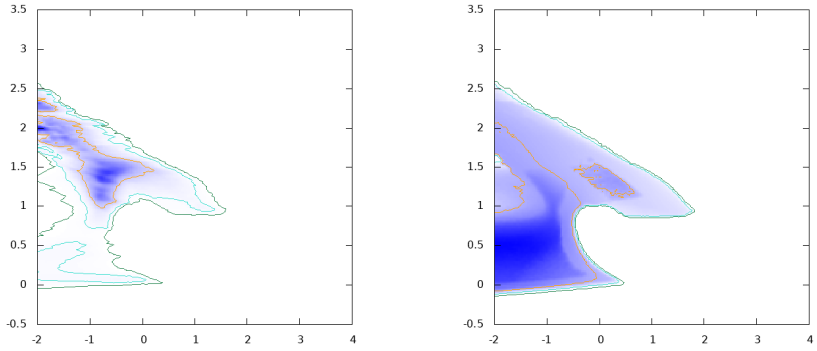
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 99: $\log_{10}\sigma(pp \to A \to \mu^+\mu^-)$ (fb) vs. $\log_{10}\sigma(pp \to A \to \tau^+\tau^-)$ (fb)



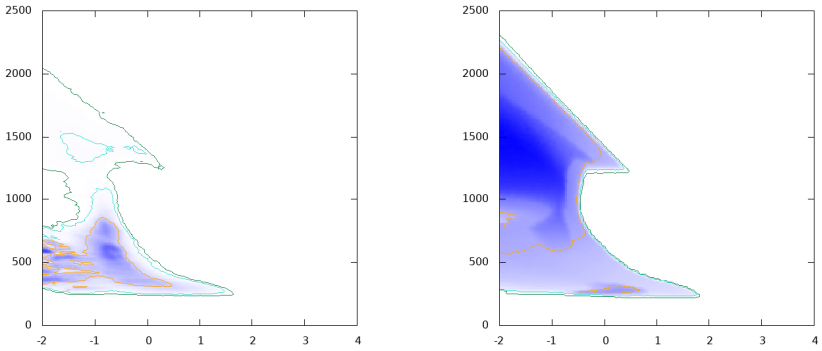
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 100: $\log_{10}\sigma(pp \to A \to HZ)$ (fb) vs. $\log_{10}\sigma(pp \to A \to \tau^+\tau^-)$ (fb)



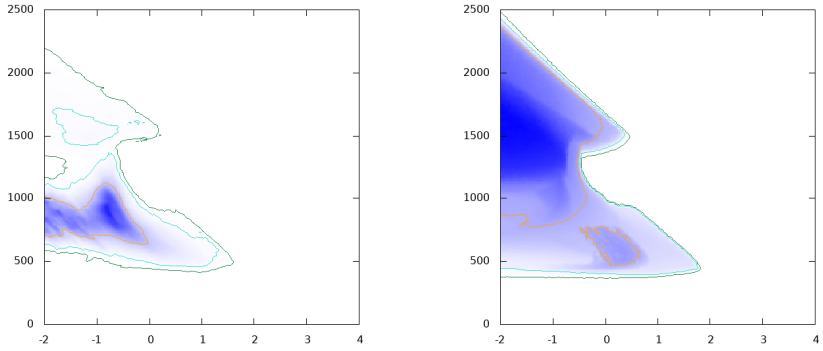
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 101: $\log_{10}\tan\beta$ vs. $\log_{10}\sigma(pp \to A \to HZ)$ (fb)



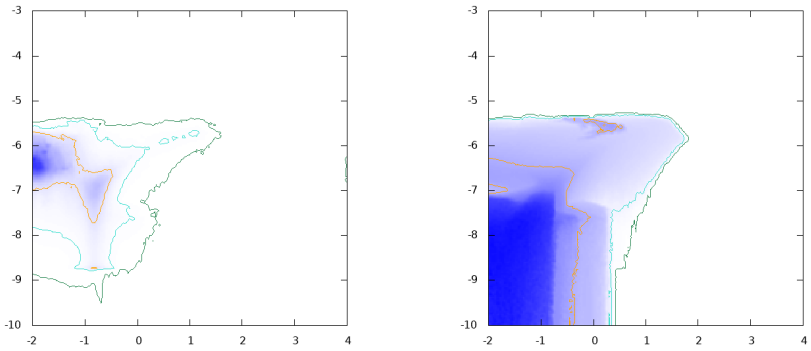
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 102: m_H GeV vs. $\log_{10}\sigma(pp \to A \to HZ)$ (fb)



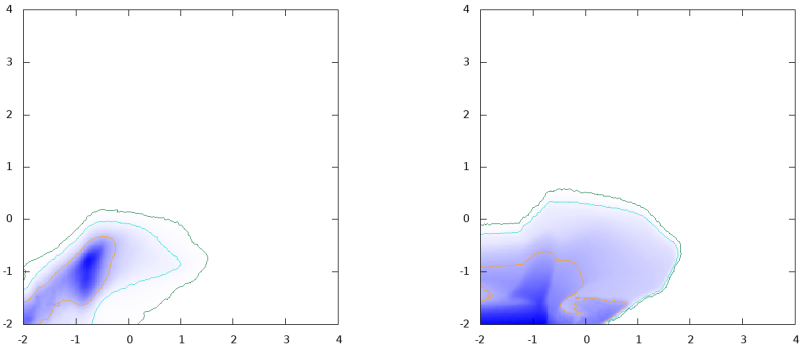
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 103: m_A GeV vs. $\log_{10}\sigma(pp \to A \to HZ)$ (fb)



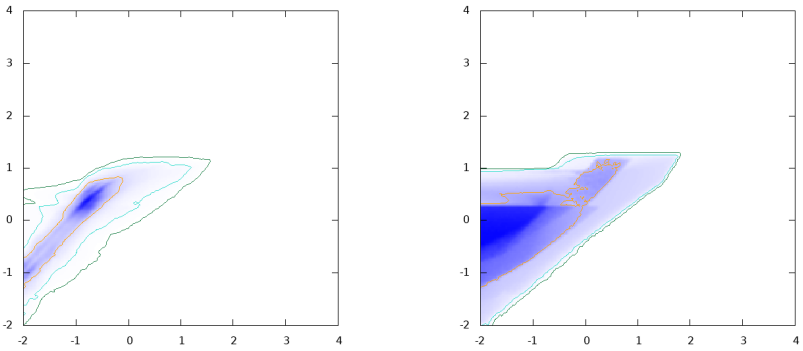
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 104: $\log_{10}|\delta a_\tau|$ vs. $\log_{10}\sigma(pp \to A \to HZ)$ (fb)



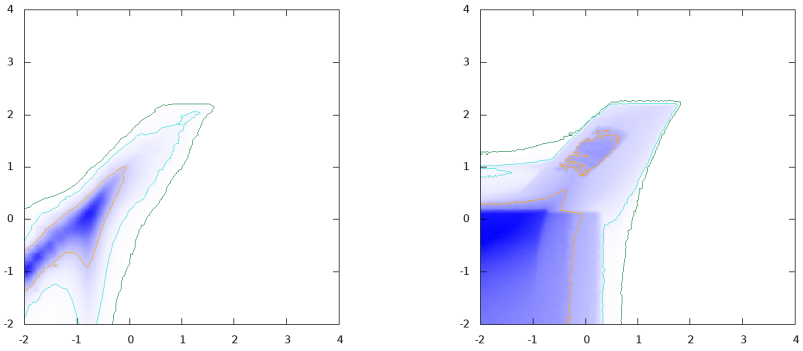
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 105: $\log_{10}\sigma(pp \to H \to e^+e^-)$ (fb) vs. $\log_{10}\sigma(pp \to A \to HZ)$ (fb)



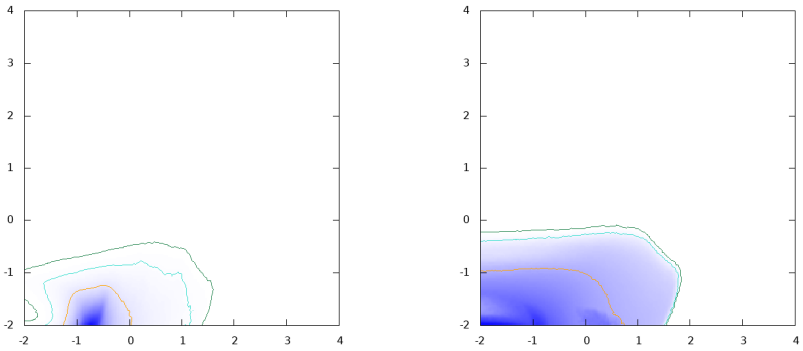
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 106: $\log_{10}\sigma(pp \to H \to \mu^+\mu^-)$ (fb) vs. $\log_{10}\sigma(pp \to A \to HZ)$ (fb)



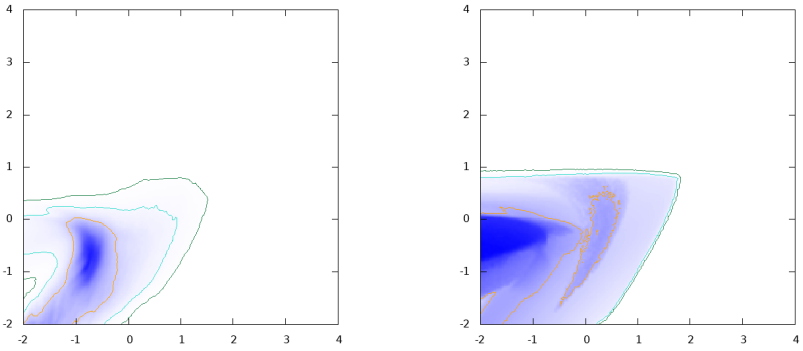
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 107: $\log_{10}\sigma(pp \to H \to \tau^+\tau^-)$ (fb) vs. $\log_{10}\sigma(pp \to A \to HZ)$ (fb)



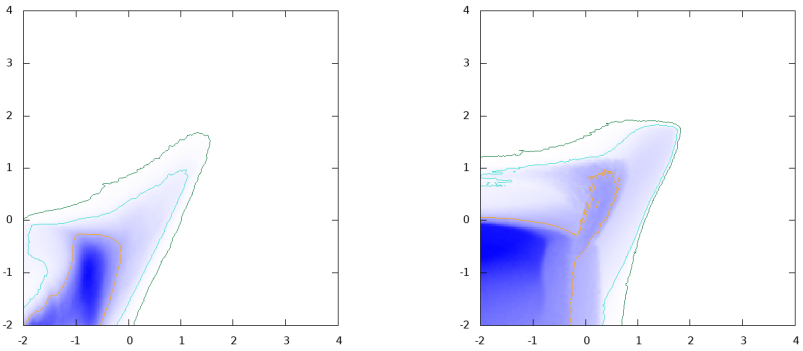
(a) PDF (b) $-2\ln(\mathcal{L})$

Figure 108: $\log_{10}\sigma(pp \to A \to e^+e^-)$ (fb) vs. $\log_{10}\sigma(pp \to A \to HZ)$ (fb)



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

Figure 109: $\log_{10}\sigma(pp \to A \to \mu^+\mu^-)$ (fb) vs. $\log_{10}\sigma(pp \to A \to HZ)$ (fb)



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

Figure 110: $\log_{10}\sigma(pp \to A \to \tau^+\tau^-)$ (fb) vs. $\log_{10}\sigma(pp \to A \to HZ)$ (fb)