

Hybrid basis:

$$m_h = 125.00 \text{ GeV}/c^2$$

$$m_A = 400.00 \text{ GeV}/c^2$$

$$m_H = 500.00 \text{ GeV}/c^2$$

$$m_{H^{\pm}} = 500.00 \text{ GeV}/c^2$$

$$Z_7 = -2.00$$

2HDM Type-II parameter space  $\chi^2$  distribution

