

$\sigma/\sigma_{\text{theory}}$ **ATLAS Preliminary** $\sqrt{s} = 13 \text{ TeV}, 36.1 - 139 \text{ fb}^{-1}$

Limits at 95% CL

— Observed

-- Expected

2HDM+a, Dirac DM

 $m_\chi = 10 \text{ GeV}, g_\chi = 1$ $m_a = 200 \text{ GeV}$ $m_A = m_H = m_{H^\pm} = 600 \text{ GeV}$ $\tan\beta = 50: E_T^{\text{miss}} + b\bar{b}$ $\tan\beta = 0.5: E_T^{\text{miss}} + t\bar{t}, t\bar{t}t\bar{t}$ $\tan\beta = 1: \text{all others}$ 