

35.9 fb⁻¹ (13 TeV)

$\sigma/\sigma_{\text{th}}$

CMS Preliminary

Z'-2HDM, Dirac DM

$m_A=300$ GeV, $m_{\chi}=100$ GeV

$g_{Z'}=0.8$, $g_{\chi}=1$, $\tan\beta=1$

$m_{A^{\pm}}=m_{H^{\pm}}=m_H$

DM + h(ZZ)

— Observed

--- Expected

■ Expected $\pm 1\sigma$

■ Expected $\pm 2\sigma$

10⁴

10³

10²

10

1

500

1000

1500

2000

2500

$m_{Z'}$ [GeV]

