

**CMS**

138 fb<sup>-1</sup> (13 TeV)

Type-X 2HDM  
Alignment  
Scenario  
 $m_\phi = 100$  GeV

**95% CL excluded:**



Observed



Expected



Previously excluded



68% expected



95% expected

**95% CL allowed:**



Muon g-2 preferred

$\tan \beta$

200

180

160

140

120

100

10

1

Linear

Log

60

80

100

120

140

160

$m_A$  (GeV)

