

19.7 fb<sup>-1</sup> (8 TeV)

tan  $\beta$

**CMS**

**t  $\rightarrow$  H<sup>+</sup>b**

**H<sup>+</sup>  $\rightarrow$   $\tau^+\nu_\tau$ ,  $\tau_h$ +jets final state**

**MSSM updated  $m_h^{\max}$**

—■— Observed

■ Excluded

■ Expected median  $\pm 1\sigma$

■ Expected median  $\pm 2\sigma$

- - -  $m_h^{\text{MSSM}} = 125 \text{ GeV}$

///  $m_h^{\text{MSSM}} \neq 125 \pm 3 \text{ GeV}$

10

1

100

110

120

130

140

150

160

$m_{H^+}$  [GeV]

