

**CMS***Simulation* $35.9 \text{ fb}^{-1} (13 \text{ TeV})$ 

Punzi Significance

0.05  
0.04  
0.03  
0.02  
0.01  
0  
-0.01 $+ m_{\chi_2} = 1 \text{ GeV}, c\tau = 1 \text{ mm}$  $+ m_{\chi_2} = 50 \text{ GeV}, c\tau = 10 \text{ mm}$  $+ m_{\chi_2} = 150 \text{ GeV}, c\tau = 1 \text{ mm}$  $\alpha < 0.05$  $\alpha < 0.2$  $\alpha < 0.5$  $\alpha < 0.75$  $\alpha_{3D}$ 