

CMS**19.7 fb⁻¹ (8 TeV)** σ (fb) 10^3 10^2 10 1 $\tilde{\chi}_1^\pm \rightarrow \tilde{\tau} \nu_\tau, \tilde{\chi}_2^0 \rightarrow \tilde{\tau} \tau, m(\tilde{\tau}_1) = \frac{1}{2}m(\tilde{\chi}_1^0) + \frac{1}{2}m(\tilde{\chi}_1^\pm)$
 $\mu\mu, e\mu, \mu\tau_h, \tau_h\tau_h$ (OS & LS)

— Observed

- · - Expected

Expected $\pm 1\sigma$, $m(\tilde{\chi}_1^\pm) - m(\tilde{\chi}_1^0) = 50$ GeVExpected $\pm 1\sigma$, $m(\tilde{\chi}_1^0) = 0$ GeV— $\sigma(\text{LO})$

100 150 200 250 300 350 400

 $m(\tilde{\chi}_1^\pm)$ (GeV)