

Selection common to all SRs	$\tilde{\chi}_2^0 \tilde{\chi}_1^+ : m(\tilde{\chi}_2^0, \tilde{\chi}_1^0) = (110, 100)$ GeV Weighted	Raw
Initial number of events ($\mathcal{L} \times \sigma$)	95700	1140000
Initial number of events ($\mathcal{L} \times \sigma \times \mathcal{B}$)	10800	128000
Generator filters ($\mathcal{L} \times \sigma \times \mathcal{B} \times \epsilon_{\text{filter}}$)	839	10000
$E_{\text{T}}^{\text{miss}} > 200$ GeV	87.5	1150
$E_{\text{T}}^{\text{miss}}$ triggers	87.4	1149
$N_{\text{baseline}}^{\ell} = 2$	39.9	519
$N_{\text{signal}}^{\ell} = 2$	21.6	314
Lepton truth matching	21.5	313
Lepton author 16 veto	21.4	311
Same flavour	20.1	294
Opposite charge	19.5	284
$p_{\text{T}}^{\ell_1} > 5$ GeV	19.4	283
$N_{\text{b-jets}} = 0$	15.8	245
$p_{\text{T}}(j_1) > 100$ GeV	15.4	240
$\Delta\phi(j_1, \mathbf{p}_{\text{T}}^{\text{miss}}) > 2.0$	15.4	240
$\min(\Delta\phi(\text{any jet}, \mathbf{p}_{\text{T}}^{\text{miss}})) > 0.4$	14.3	221
Veto $m_{\tau\tau} \in [0, 160]$ GeV	11.6	175
$m_{\ell\ell} > 1$ GeV	11.1	168
Veto $m_{\ell\ell} \in [3, 3.2]$ GeV	10.7	161
$m_{\ell\ell} < 60$ GeV	10.7	161
$\Delta R_{\ell\ell} > 0.05$	10.7	161
SR $\ell\ell$ - $m_{\ell\ell}$ selection		
$E_{\text{T}}^{\text{miss}}/H_{\text{T}}^{\text{lep}} > \max(5, 15 - 2 \cdot m_{\ell\ell}/\text{GeV})$	9.6	146
$\Delta R_{\ell\ell} < 2.0$	9.5	144
$m_{\text{T}}^{\ell_1} < 70$ GeV	7.3	115
$m_{\ell\ell} < 40$ GeV	7.3	115
$m_{\ell\ell} < 30$ GeV	7.3	115
$m_{\ell\ell} < 20$ GeV	7.3	115
$m_{\ell\ell} < 10$ GeV	7.2	113
$m_{\ell\ell} < 5$ GeV	3.5	55
$m_{\ell\ell} < 3$ GeV	1.04	18
SR $\ell\ell$ - $m_{\text{T}2}^{100}$ selection		
$E_{\text{T}}^{\text{miss}}/H_{\text{T}}^{\text{lep}} > \max(3, 15 - 2 \cdot [m_{\text{T}2}^{100}/\text{GeV} - 100])$	10.6	160
$m_{\text{T}2}^{100} < 130$ GeV	10.2	156
$m_{\text{T}2}^{100} < 120$ GeV	9.9	151
$m_{\text{T}2}^{100} < 110$ GeV	8.1	127
$m_{\text{T}2}^{100} < 105$ GeV	3.2	53
$m_{\text{T}2}^{100} < 102$ GeV	0.31	4