

Event selection	Benchmark model ( $m_{\text{SUSY}}, m_{\text{LSP}}$ )					
	T2bb	T2bb	T2tb	T2tb	T2tt	T2tt
	(800, 50)	(375, 300)	(600, 50)	(350, 225)	(700, 50)	(350, 100)
Before selection	100	100	100	100	100	100
Event veto for muons and electrons	99	99	72	80	63	63
Event veto for single isolated tracks	96	94	61	72	53	53
Event veto for photons	95	94	60	72	52	52
Event veto for forward jets ( $ \eta  > 3.0$ )	81	81	51	62	45	45
$n_{\text{jet}} \geq 2$	80	61	51	53	45	44
$p_{\text{T}}^{\text{j1}} > 100 \text{ GeV}$	80	36	50	36	44	35
$ \eta^{\text{j1}}  < 2.5$	80	34	50	34	44	34
$H_{\text{T}} > 200 \text{ GeV}$	80	30	50	30	44	33
$H_{\text{T}}^{\text{miss}} > 130 \text{ GeV}$	75	18	44	17	40	20
$H_{\text{T}}^{\text{miss}}/E_{\text{T}}^{\text{miss}} < 1.25$	72	15	38	12	38	15
$H_{\text{T}}$ -dependent $\alpha_{\text{T}}$ requirements ( $H_{\text{T}} < 800 \text{ GeV}$ )	62	7.2	30	5.5	34	8.8
$\Delta\phi_{\text{min}}^* > 0.5$	39	4.5	17	3.2	21	4.0
Four most sensitive $n_{\text{jet}}$ event categories	37	2.9	14	2.1	19	3.0