

	T1tttt(2000, 100)	T1tttt(1800, 1100)	T5ttcc(1750, 900)
Expected events ( $35.9 \text{ fb}^{-1}$ at $\sqrt{s} = 13 \text{ TeV}$ )	35	99	129
Preselection requirements	Events (efficiency)		
Event filter	35 (100%)	99 (100%)	129 (100%)
$\mu$ veto	21 (62%)	62 (63%)	100 (78%)
e veto	13 (63%)	40 (64%)	79 (79%)
Isolated track veto	12 (91%)	34 (85%)	74 (94%)
$N_j \geq 4$	12 (99%)	34 (100%)	68 (91%)
$N_b \geq 1$	12 (96%)	33 (97%)	58 (84%)
$H_T \geq 300 \text{ GeV}$	12 (100%)	33 (100%)	58 (99%)
$E_T^{\text{miss}} \geq 250 \text{ GeV}$	11 (91%)	25 (75%)	52 (89%)
$\Delta\phi(E_T^{\text{miss}}, j_{1,2,3}) > 0.5, 0.5, 0.3$	9 (81%)	22 (88%)	47 (91%)
$N_t \geq 1$	7 (86%)	19 (87%)	35 (73%)
$M_{T2} > 200 \text{ GeV}$	7 (98%)	19 (97%)	34 (97%)
$N_b, N_t$ regions	Events (efficiency)		
$N_b = 1, N_t = 1$	0.6 (8%)	1.8 (9%)	12.0 (35%)
$N_b = 1, N_t = 2$	0.5 (6%)	1.2 (6%)	4.5 (13%)
$N_b = 1, N_t \geq 3$	0.2 (2%)	0.2 (0%)	0.1 (0%)
$N_b = 2, N_t = 1$	1.2 (15%)	3.2 (16%)	9.4 (27%)
$N_b = 2, N_t = 2$	1.0 (13%)	2.7 (13%)	4.5 (13%)
$N_b = 2, N_t \geq 3$	0.4 (5%)	0.6 (2%)	0.1 (0%)
$N_b \geq 3, N_t = 1$	1.5 (19%)	4.3 (22%)	2.3 (6%)
$N_b \geq 3, N_t = 2$	1.5 (19%)	4.0 (21%)	1.1 (3%)
$N_b \geq 3, N_t \geq 3$	0.8 (10%)	1.2 (6%)	0.0 (0%)
$M_{T2}, E_T^{\text{miss}}$ regions	Events (efficiency)		
$200 \leq M_{T2} < 300 \text{ GeV}, 250 \leq E_T^{\text{miss}} < 400 \text{ GeV}$	0.4 (5%)	2.5 (13%)	1.2 (3%)
$200 \leq M_{T2} < 300 \text{ GeV}, 400 \leq E_T^{\text{miss}} < 500 \text{ GeV}$	0.2 (2%)	0.8 (4%)	0.5 (1%)
$200 \leq M_{T2} < 300 \text{ GeV}, 500 \leq E_T^{\text{miss}} < 600 \text{ GeV}$	0.2 (2%)	0.4 (2%)	0.3 (0%)
$200 \leq M_{T2} < 300 \text{ GeV}, 600 \leq E_T^{\text{miss}} < 750 \text{ GeV}$	0.2 (2%)	0.2 (1%)	0.3 (0%)
$200 \leq M_{T2} < 300 \text{ GeV}, E_T^{\text{miss}} \geq 750 \text{ GeV}$	0.2 (2%)	0.1 (0%)	0.3 (0%)
$300 \leq M_{T2} < 400 \text{ GeV}, 250 \leq E_T^{\text{miss}} < 400 \text{ GeV}$	0.3 (3%)	3.1 (16%)	2.3 (6%)
$300 \leq M_{T2} < 400 \text{ GeV}, 400 \leq E_T^{\text{miss}} < 500 \text{ GeV}$	0.2 (2%)	1.4 (7%)	0.9 (2%)
$300 \leq M_{T2} < 400 \text{ GeV}, 500 \leq E_T^{\text{miss}} < 600 \text{ GeV}$	0.2 (2%)	0.7 (3%)	0.5 (1%)
$300 \leq M_{T2} < 400 \text{ GeV}, 600 \leq E_T^{\text{miss}} < 750 \text{ GeV}$	0.3 (3%)	0.5 (2%)	0.5 (1%)
$300 \leq M_{T2} < 400 \text{ GeV}, E_T^{\text{miss}} \geq 750 \text{ GeV}$	0.5 (6%)	0.2 (1%)	0.4 (1%)
$400 \leq M_{T2} < 550 \text{ GeV}, 250 \leq E_T^{\text{miss}} < 400 \text{ GeV}$	0.2 (2%)	1.0 (5%)	1.2 (3%)
$400 \leq M_{T2} < 550 \text{ GeV}, 400 \leq E_T^{\text{miss}} < 500 \text{ GeV}$	0.2 (2%)	2.1 (10%)	2.3 (6%)
$400 \leq M_{T2} < 550 \text{ GeV}, 500 \leq E_T^{\text{miss}} < 600 \text{ GeV}$	0.2 (3%)	1.5 (7%)	1.6 (4%)
$400 \leq M_{T2} < 550 \text{ GeV}, 600 \leq E_T^{\text{miss}} < 750 \text{ GeV}$	0.4 (4%)	1.0 (5%)	1.2 (3%)
$400 \leq M_{T2} < 550 \text{ GeV}, E_T^{\text{miss}} \geq 750 \text{ GeV}$	0.8 (9%)	0.4 (1%)	0.9 (2%)
$M_{T2} \geq 550 \text{ GeV}, 250 \leq E_T^{\text{miss}} < 400 \text{ GeV}$	0.1 (0%)	0.0 (0%)	0.0 (0%)
$M_{T2} \geq 550 \text{ GeV}, 400 \leq E_T^{\text{miss}} < 500 \text{ GeV}$	0.1 (1%)	0.2 (0%)	0.3 (0%)
$M_{T2} \geq 550 \text{ GeV}, 500 \leq E_T^{\text{miss}} < 600 \text{ GeV}$	0.2 (2%)	0.8 (4%)	1.7 (4%)
$M_{T2} \geq 550 \text{ GeV}, 600 \leq E_T^{\text{miss}} < 750 \text{ GeV}$	0.5 (6%)	1.5 (7%)	4.8 (14%)
$M_{T2} \geq 550 \text{ GeV}, E_T^{\text{miss}} \geq 750 \text{ GeV}$	2.5 (31%)	0.9 (4%)	12.8 (37%)