

Table 1: Cut flow for the photon analysis with efficiencies for three benchmark signal points. Here  $M_{\tilde{q}}$  and  $M_{\tilde{\chi}}$  are the squark and neutralino masses, respectively.

$M_{\tilde{q}}, M_{\tilde{\chi}}$ (GeV)	1000, 150	1000, 500	1000, 950
Selection	Efficiency (%)		
2 isolated photons	$3.5 \pm 0.1$	$46.7 \pm 0.4$	$46.9 \pm 0.4$
Veto leptons	$3.5 \pm 0.1$	$46.4 \pm 0.4$	$46.6 \pm 0.4$
$S_T > 1200$ GeV	$3.2 \pm 0.1$	$46.1 \pm 0.4$	$46.1 \pm 0.4$
$N_J \geq 4$	$3.1 \pm 0.1$	$44.4 \pm 0.4$	$34.7 \pm 0.3$
Search regions			
$N_J = 4$	$0.7 \pm 0.1$	$8.5 \pm 0.2$	$14.5 \pm 0.2$
$N_J \geq 5$	$2.3 \pm 0.1$	$35.8 \pm 0.3$	$20.2 \pm 0.3$

Table 2: Cut flow for the lepton analysis with efficiencies for the benchmark signal point with squark mass  $M_{\tilde{q}} = 600$  GeV. Note that the expected efficiency for  $W^\pm W^\pm \rightarrow \mu^\pm e^\pm$  is approximately 2%.

Selection	Efficiency (%)
$N_J \geq 4, S_T > 300$ GeV	$99.07 \pm 0.02$
1 electron	$15.04 \pm 0.05$
1 electron, 1 muon	$1.60 \pm 0.02$
1 electron (isolated), 1 muon	$1.30 \pm 0.02$
1 electron (isolated), 1 muon (isolated)	$0.93 \pm 0.01$
Veto additional leptons	$0.93 \pm 0.01$
0 b-tagged jets	$0.89 \pm 0.01$

Table 3: Full selection efficiencies (%) for all signal points in each search region. The only difference with respect to Table 2 is the  $S_T$  threshold applied in the second column.

$M_{\tilde{q}}$ (GeV)	$S_T^{\min}$ (GeV)	$N_J = 4$	$N_J = 5$	$N_J = 6$	$N_J \geq 7$
300	300	$0.13 \pm 0.01$	$0.10 \pm 0.01$	$0.05 \pm 0.01$	$0.02 \pm 0.01$
400	700	$0.05 \pm 0.01$	$0.07 \pm 0.01$	$0.05 \pm 0.01$	$0.04 \pm 0.01$
500	700	$0.14 \pm 0.01$	$0.20 \pm 0.01$	$0.16 \pm 0.01$	$0.12 \pm 0.01$
600	1200	$0.05 \pm 0.01$	$0.08 \pm 0.01$	$0.07 \pm 0.01$	$0.08 \pm 0.01$
700	1200	$0.11 \pm 0.01$	$0.17 \pm 0.01$	$0.15 \pm 0.01$	$0.14 \pm 0.01$
800	1200	$0.14 \pm 0.01$	$0.25 \pm 0.02$	$0.22 \pm 0.01$	$0.18 \pm 0.01$
900	1200	$0.19 \pm 0.01$	$0.30 \pm 0.02$	$0.26 \pm 0.02$	$0.20 \pm 0.01$