0.1 $\tilde{\chi}_{1}^{\pm}(425) \rightarrow (\ell \tilde{\nu}(250) \text{ or } \nu \tilde{\ell}(250)) \rightarrow \nu \ell \tilde{\chi}_{1}^{0}(75) \text{ (ATLAS_2014_I1286761 (1403.5294))}$

• Process: $\tilde{\chi}_1^+ \tilde{\chi}_1^- : \tilde{\chi}_1^{\pm} \to (\ell \tilde{\nu} \text{ or } \nu \tilde{\ell}) \to \nu \ell \tilde{\chi}_1^0$.

• Mass: $m_{\tilde{\chi}_1^{\pm}} = 425$ GeV, $m_{\tilde{\ell}/\tilde{\nu}} = 250$ GeV, $m_{\tilde{\chi}_1^0} = 75$ GeV.

• The number of events: 10^4 .

• Event Generator: Herwig++ 2.5.2.

#	cut name	$\epsilon_{ m Exp}$	$\epsilon_{ ext{Atom}}$	Atom Exp	$\frac{\text{(Exp-Atom)}}{\text{Error}}$	#/?	$R_{\rm Exp}$	R_{Atom}	Atom Exp	(Exp-Atom) Error
0	= 2 OSlep $p_T > 35, 20$: SF	100.0	100.0							
1	Jet veto: SF	40.35 ± 0.71	29.99 ± 1.2	0.74	-7.44	0	0.4 ± 0.01	0.3 ± 0.01	0.74	-7.44
2	Z veto: SF	38.37 ± 0.7	28.22 ± 1.16	0.74	-7.49	1	0.95 ± 0.02	0.94 ± 0.04	0.99	-0.24
3	$m_{T2} > 90$: SF	24.01 ± 0.55	17.48 ± 0.92	0.73	-6.07	2	0.63 ± 0.01	0.62 ± 0.03	0.99	-0.18
4	$m_{T2} > 120$: SF	19.06 ± 0.49	13.02 ± 0.8	0.68	-6.42	3	0.79 ± 0.02	0.74 ± 0.05	0.94	-0.97
5	$m_{T2} > 150$: SF	14.11 ± 0.42	9.32 ± 0.68	0.66	-5.97	4	0.74 ± 0.02	0.72 ± 0.05	0.97	-0.43

Table 1: The cut-flow table for the same flavour channel.

#	cut name	$\epsilon_{ m Exp}$	$\epsilon_{ ext{Atom}}$	Atom Exp	$\frac{\text{(Exp-Atom)}}{\text{Error}}$	#/?	R_{Exp}	R_{Atom}	Atom Exp	(Exp-Atom) Error
0	$= 2 \text{ OSlep } p_T > 35, 20: \text{ DF}$	100.0	100.0							
1	Jet veto: DF	39.3 ± 0.7	29.59 ± 1.18	0.75	-7.06	0	0.39 ± 0.01	0.3 ± 0.01	0.75	-7.06
2	Z veto: DF	39.3 ± 0.7	29.59 ± 1.18	0.75	-7.06	1	1.0 ± 0.02	1.0 ± 0.04	1.0	0.0
3	$m_{T2} > 90$: DF	25.24 ± 0.56	18.03 ± 0.93	0.71	-6.62	2	0.64 ± 0.01	0.61 ± 0.03	0.95	-0.96
4	$m_{T2} > 120$: DF	20.13 ± 0.5	14.77 ± 0.85	0.73	-5.44	3	0.8 ± 0.02	0.82 ± 0.05	1.03	0.43
5	$m_{T2} > 50$: DF	14.7 ± 0.43	11.12 ± 0.74	0.76	-4.19	4	0.73 ± 0.02	0.75 ± 0.05	1.03	0.41

Table 2: The cut-flow table for the different flavour channel.