$\tilde{\chi}_1^{\pm}(350) \to (\ell\tilde{\nu}(175) \text{ or } \nu\tilde{\ell}(175)) \to \nu\ell\tilde{\chi}_1^0(0)$ (**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: $m_{\tilde{\chi}_1^{\pm}} = 350$ GeV, $m_{\tilde{\ell}/\tilde{\nu}} = 175$ GeV, $m_{\tilde{\chi}_1^0} = 0$ GeV.
- The number of events: 10^4.
- Event Generator: `Herwig++ 2.5.2`.

#	cut name	ϵ_{Exp}	ϵ_{Atom}	$\frac{\text{Atom}}{\text{Exp}}$	$\frac{(\text{Exp}-\text{Atom})}{\text{Error}}$	#/?	R_{Exp}	R_{Atom}	$\frac{\text{Atom}}{\text{Exp}}$	$\frac{(\text{Exp}-\text{Atom})}{\text{Error}}$
0	= 2 OSlep $p_T > 35, 20$: SF	100.0	100.0							
1	Jet veto: SF	43.19 ± 0.73	39.35 ± 1.35	0.91	-2.5	0	0.43 ± 0.01	0.39 ± 0.01	0.91	-2.5
2	Z veto: SF	40.58 ± 0.71	36.4 ± 1.3	0.9	-2.82	1	0.94 ± 0.02	0.93 ± 0.03	0.98	-0.4
3	$m_{T2} > 90$: SF	24.25 ± 0.55	22.45 ± 1.04	0.93	-1.53	2	0.6 ± 0.01	0.62 ± 0.03	1.03	0.61
4	$m_{T2} > 120$: SF	18.14 ± 0.48	17.1 ± 0.91	0.94	-1.01	3	0.75 ± 0.02	0.76 ± 0.04	1.02	0.31
5	$m_{T2} > 150$: SF	11.92 ± 0.39	11.4 ± 0.75	0.96	-0.62	4	0.66 ± 0.02	0.67 ± 0.04	1.01	0.19

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

#	cut name	ϵ_{Exp}	ϵ_{Atom}	$\frac{\text{Atom}}{\text{Exp}}$	$\frac{(\text{Exp}-\text{Atom})}{\text{Error}}$	#/?	R_{Exp}	R_{Atom}	$\frac{\text{Atom}}{\text{Exp}}$	$\frac{(\text{Exp}-\text{Atom})}{\text{Error}}$
0	= 2 OSlep $p_T > 35, 20$: DF	100.0	100.0							
1	Jet veto: DF	41.7 ± 0.73	41.04 ± 1.4	0.98	-0.42	0	0.42 ± 0.01	0.41 ± 0.01	0.98	-0.42
2	Z veto: DF	41.7 ± 0.73	41.04 ± 1.4	0.98	-0.42	1	1.0 ± 0.02	1.0 ± 0.03	1.0	0.0
3	$m_{T2} > 90$: DF	24.58 ± 0.56	23.59 ± 1.08	0.96	-0.81	2	0.59 ± 0.01	0.57 ± 0.03	0.98	-0.5
4	$m_{T2} > 120$: DF	18.92 ± 0.49	18.12 ± 0.95	0.96	-0.75	3	0.77 ± 0.02	0.77 ± 0.04	1.0	-0.04
5	$m_{T2} > 150$: DF	13.0 ± 0.41	12.75 ± 0.8	0.98	-0.27	4	0.69 ± 0.02	0.7 ± 0.04	1.02	0.34

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