$\tilde{\chi}_1^{\pm}(100) \to W^{\pm}\tilde{\chi}_1^0(0)$ (**ATLAS_2014_I1286761 (1403.5294)**)

- Process: $\tilde{\chi}_1^+\tilde{\chi}_1^- : \tilde{\chi}_1^{\pm} \to W^{\pm}\tilde{\chi}_1^0$.
- Mass: $m_{\tilde{\chi}_1^{\pm}} = 100$ GeV, $m_{\tilde{\chi}_1^0} = 0$ GeV.
- The number of events: $5 \cdot 10^4$.
- 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	49.5 ± 1.96	68.02 ± 3.24	**1.37**	4.88	0	0.49 ± 0.02	0.68 ± 0.03	**1.37**	4.88
2	Z Veto: SF	40.81 ± 1.78	53.67 ± 2.88	**1.31**	3.79	1	0.82 ± 0.04	0.79 ± 0.04	0.96	-0.64
3	WWa: $p_T(\ell\ell) > 80$: SF	6.85 ± 0.73	7.96 ± 1.11	1.16	0.83	2	0.17 ± 0.02	0.15 ± 0.02	0.88	-0.72
4	WWa: METrel > 80: SF	4.06 ± 0.56	5.46 ± 0.92	**1.34**	1.3	3	0.59 ± 0.08	0.69 ± 0.12	1.16	0.66
5	WWa: $m_{\ell\ell} < 120$: SF	2.77 ± 0.46	4.21 ± 0.81	**1.52**	1.54	4	0.68 ± 0.11	0.77 ± 0.15	1.13	0.47

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	49.93 ± 1.96	65.23 ± 3.15	**1.31**	4.12	0	0.5 ± 0.02	0.65 ± 0.03	**1.31**	4.12
2	Z Veto: DF	49.93 ± 1.96	65.23 ± 3.15	**1.31**	4.12	1	1.0 ± 0.04	1.0 ± 0.05	1.0	0.0
3	WWa: $p_T(\ell\ell) > 80$: DF	7.69 ± 0.77	6.46 ± 1.0	0.84	-0.98	2	0.15 ± 0.02	0.1 ± 0.02	**0.64**	-2.53
4	WWa: METrel > 80: DF	4.82 ± 0.61	3.69 ± 0.75	0.77	-1.16	3	0.63 ± 0.08	0.57 ± 0.12	0.91	-0.39
5	WWa: $m_{\ell\ell} < 120$: DF	3.29 ± 0.5	3.08 ± 0.69	0.93	-0.25	4	0.68 ± 0.1	0.83 ± 0.19	1.22	0.7

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