$\tilde{\chi}_{1}^{\pm}(350) \to (\ell \tilde{\nu}(175) \text{ or } \nu \tilde{\ell}(175)) \to \nu \ell \tilde{\chi}_{1}^{0}(0) \text{ (ATLAS_CONF_2013_049)}$

• 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	$\epsilon_{ m Exp}$	$\epsilon_{ ext{Atom}}$	Atom Exp	$\frac{\text{(Exp-Atom)}}{\text{Error}}$	#/?	R_{Exp}	R_{Atom}	Atom Exp	(Exp-Atom) Error
0	ee: Trigger	100.0	100.0							
1	ee: Z veto	92.31 ± 1.39	88.89 ± 29.7	0.96	-0.11	0	0.92 ± 0.01	0.89 ± 0.3	0.96	-0.11
2	ee: Jet veto	38.46 ± 0.9	11.11 ± 11.04	0.29	-2.47	1	0.42 ± 0.01	0.13 ± 0.12	0.3	-2.34
3	ee: MET ^{rel}	32.69 ± 0.83	11.11 ± 11.04	0.34	-1.95	2	0.85 ± 0.02	1.0 ± 0.99	1.18	0.15
4	ee: $m_{T2} > 90$	22.5 ± 0.68	11.11 ± 11.04	0.49	-1.03	3	0.69 ± 0.02	1.0 ± 0.99	1.45	0.31
5	ee: $m_{T2} > 110$	18.27 ± 0.62	11.11 ± 11.04	0.61	-0.65	4	0.81 ± 0.03	1.0 ± 0.99	1.23	0.19

Table 1: The cut-flow table for the *ee* channel.

#	cut name	$\epsilon_{ m Exp}$	$\epsilon_{ m Atom}$	Atom Exp	(Exp-Atom) Error	#/?	$R_{\rm Exp}$	R_{Atom}	Atom Exp	(Exp-Atom) Error
0	$\mu\mu$: Trigger	100.0	100.0							
1	$\mu\mu$: Z veto	92.31 ± 1.39	100.0 ± 31.27	1.08	0.25	0	0.92 ± 0.01	1.0 ± 0.31	1.08	0.25
2	$\mu\mu$: Jet veto	38.46 ± 0.9	55.56 ± 24.0	1.44	0.71	1	0.42 ± 0.01	0.56 ± 0.24	1.33	0.58
3	$\mu\mu$: MET ^{rel}	32.69 ± 0.83	44.44 ± 21.62	1.36	0.54	2	0.85 ± 0.02	0.8 ± 0.39	0.94	-0.13
4	$\mu\mu$: $m_{T2} > 90$	22.5 ± 0.68	33.33 ± 18.86	1.48	0.57	3	0.69 ± 0.02	0.75 ± 0.42	1.09	0.15
5	$\mu\mu$: $m_{T2} > 110$	18.27 ± 0.62	22.22 ± 15.5	1.22	0.25	4	0.81 ± 0.03	0.67 ± 0.47	0.82	-0.31

Table 2: The cut-flow table for the $\mu\mu$ channel.

#	cut name	$\epsilon_{ m Exp}$	$\epsilon_{ ext{Atom}}$	Atom Exp	(Exp-Atom) Error	#/?	$R_{\rm Exp}$	R_{Atom}	Atom Exp	(Exp-Atom) Error
0	$e\mu$: Trigger	100.0	100.0							
1	$e\mu$: Z veto	92.31 ± 1.25	90.91 ± 26.76	0.98	-0.05	0	0.92 ± 0.01	0.91 ± 0.27	0.98	-0.05
2	$e\mu$: Jet veto	38.46 ± 0.81	9.09 ± 9.03	0.24	-3.24	1	0.42 ± 0.01	0.1 ± 0.1	0.24	-3.18
3	$e\mu$: MET ^{rel}	32.69 ± 0.75	9.09 ± 9.03	0.28	-2.6	2	0.85 ± 0.02	1.0 ± 0.99	1.18	0.15
4	$e\mu$: $m_{T2} > 90$	22.5 ± 0.62	9.09 ± 9.03	0.4	-1.48	3	0.69 ± 0.02	1.0 ± 0.99	1.45	0.31
5	$e\mu$: $m_{T2} > 110$	18.27 ± 0.56	0.0 ± 0.0	0.0	-32.74	4	0.81 ± 0.02	0.0 ± 0.0	0.0	-32.74

Table 3: The cut-flow table for the $e\mu$ channel.