0.1 $\tilde{\chi}_{1}^{\pm}(425) \to (\ell \tilde{\nu}(250) \text{ or } \nu \tilde{\ell}(75)) \to \nu \ell \tilde{\chi}_{1}^{0}(0) \text{ (ATLAS_CONF_2013_049)}$

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

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

• 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	ee: Trigger	100.0	100.0							
1	ee: Z veto	95.0 ± 1.54	94.73 ± 2.08	1.0	-0.1	0	0.95 ± 0.02	0.95 ± 0.02	1.0	-0.1
2	ee: Jet veto	35.0 ± 0.94	27.76 ± 1.16	0.79	-4.84	1	0.37 ± 0.01	0.29 ± 0.01	0.8	-4.78
3	ee: MET ^{rel}	30.0 ± 0.87	24.45 ± 1.09	0.81	-3.98	2	0.86 ± 0.02	0.88 ± 0.04	1.03	0.5
4	ee: $m_{T2} > 90$	21.5 ± 0.73	16.27 ± 0.9	0.76	-4.52	3	0.72 ± 0.02	0.67 ± 0.04	0.93	-1.17
5	ee: $m_{T2} > 110$	18.5 ± 0.68	13.4 ± 0.81	0.72	-4.8	4	0.86 ± 0.03	0.82 ± 0.05	0.96	-0.61

Table 1: The cut-flow table for the *ee* 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	$\mu\mu$: Trigger	100.0	100.0							
1	$\mu\mu$: Z veto	95.0 ± 1.5	95.16 ± 2.01	1.0	0.07	0	0.95 ± 0.02	0.95 ± 0.02	1.0	0.07
2	$\mu\mu$: Jet veto	35.0 ± 0.91	27.74 ± 1.13	0.79	-5.0	1	0.37 ± 0.01	0.29 ± 0.01	0.79	-5.04
3	$\mu\mu$: MET ^{rel}	30.0 ± 0.84	24.8 ± 1.07	0.83	-3.82	2	0.86 ± 0.02	0.89 ± 0.04	1.04	0.81
4	$\mu\mu$: $m_{T2} > 90$	21.5 ± 0.71	16.45 ± 0.88	0.77	-4.47	3	0.72 ± 0.02	0.66 ± 0.04	0.93	-1.25
5	$\mu\mu$: $m_{T2} > 110$	18.5 ± 0.66	13.75 ± 0.8	0.74	-4.57	4	0.86 ± 0.03	0.84 ± 0.05	0.97	-0.43

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_{Exp}	R_{Atom}	Atom Exp	(Exp-Atom) Error
0	$e\mu$: Trigger	100.0	100.0							
1	$e\mu$: Z veto	93.55 ± 1.07	94.48 ± 1.36	1.01	0.54	0	0.94 ± 0.01	0.94 ± 0.01	1.01	0.54
2	$e\mu$: Jet veto	35.48 ± 0.66	27.93 ± 0.8	0.79	-7.28	1	0.38 ± 0.01	0.3 ± 0.01	0.78	-7.59
3	$e\mu$: MET ^{rel}	29.03 ± 0.6	24.34 ± 0.75	0.84	-4.89	2	0.82 ± 0.02	0.87 ± 0.03	1.07	1.68
4	$e\mu$: $m_{T2} > 90$	21.61 ± 0.51	16.63 ± 0.63	0.77	-6.16	3	0.74 ± 0.02	0.68 ± 0.03	0.92	-1.97
5	$e\mu$: $m_{T2} > 110$	18.39 ± 0.47	14.06 ± 0.58	0.76	-5.79	4	0.85 ± 0.02	0.85 ± 0.03	0.99	-0.12

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