0.1 SR H160: $\tilde{t}_1(300) \to b\tilde{\chi}_1^+(150) \to W^+\tilde{\chi}_1^0(50)$ (ATLAS_2014_I1286444 (1403.4853))

- Process: $pp \to \tilde{t}_1\tilde{t}_1^* : \tilde{t}_1 \to b\tilde{\chi}_1^+ \to W^+\tilde{\chi}_1^0$.
- Mass: $m_{\tilde{t}_1} = 300$ GeV, $m_{\tilde{\chi}_1^\pm} = 150$ GeV, $m_{\tilde{\chi}_1^0} = 50$ 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	$p_T(\ell_1) > 25$: SF	100.0	100.0							
1	H160: $= 2b$-jets: SF	41.1 ± 0.55	42.68 ± 1.71	1.04	0.88	0	0.41 ± 0.01	0.43 ± 0.02	1.04	0.88
2	H160: $m_{T2}(\text{b}-\text{jet}) > 160$: SF	5.81 ± 0.21	4.08 ± 0.54	0.7	−2.98	1	0.14 ± 0.01	0.1 ± 0.01	0.68	−3.35
3	H160: $m_{T2} < 90$: SF	5.65 ± 0.2	4.08 ± 0.54	0.72	−2.7	2	0.97 ± 0.03	1.0 ± 0.13	1.03	0.21
4	H160: $p_T(\ell_1) < 60$: SF	2.88 ± 0.14	1.31 ± 0.31	0.46	−4.6	3	0.51 ± 0.03	0.32 ± 0.08	0.63	−2.36

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	$p_T(\ell_1) > 25$: DF	100.0	100.0							
1	H160: $= 2b$-jets: DF	36.17 ± 0.53	40.77 ± 1.72	1.13	2.55	0	0.36 ± 0.01	0.41 ± 0.02	1.13	2.55
2	H160: $m_{T2}(\text{b}-\text{jet}) > 160$: DF	5.57 ± 0.21	4.62 ± 0.59	0.83	−1.52	1	0.15 ± 0.01	0.11 ± 0.01	0.73	−2.61
3	H160: $m_{T2} < 90$: DF	5.46 ± 0.21	4.38 ± 0.58	0.8	−1.76	2	0.98 ± 0.04	0.95 ± 0.13	0.97	−0.23
4	H160: $p_T(\ell_1) < 60$: DF	2.36 ± 0.13	1.92 ± 0.38	0.82	−1.06	3	0.43 ± 0.02	0.44 ± 0.09	1.02	0.08

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