

0.1 Zjets SR: S2 (ATLAS_2014_I1286761 (1403.5294))

- Process: $\tilde{\chi}_1^\pm \tilde{\chi}_2^0 \rightarrow (W^\pm \tilde{\chi}_1^0)(Z \tilde{\chi}_1^0)$.
- Mass: $m_{\tilde{\chi}_1^\pm} = m_{\tilde{\chi}_2^0} = 350$ GeV, $m_{\tilde{\chi}_1^0} = 50$ 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	Zjets: > 1 light jets	80.43 ± 0.47	70.38 ± 0.84	0.88	-10.51	0	0.8 ± 0.0	0.7 ± 0.01	0.88	-10.51
2	Zjets: No b- and F-jets	59.02 ± 0.4	57.87 ± 0.78	0.98	-1.31	1	0.73 ± 0.0	0.82 ± 0.01	1.12	7.28
3	Zjets: Z window	56.57 ± 0.39	53.38 ± 0.76	0.94	-3.74	2	0.96 ± 0.01	0.92 ± 0.01	0.96	-2.46
4	Zjets: $p_T^{\ell\ell} > 80$	49.54 ± 0.37	46.58 ± 0.72	0.94	-3.67	3	0.88 ± 0.01	0.87 ± 0.01	1.0	-0.21
5	Zjets: METrel > 80	32.11 ± 0.29	30.51 ± 0.6	0.95	-2.39	4	0.65 ± 0.01	0.66 ± 0.01	1.01	0.48
6	Zjets: $0.3 < \Delta R(\ell\ell) < 1.5$	26.91 ± 0.27	25.2 ± 0.55	0.94	-2.78	5	0.84 ± 0.01	0.83 ± 0.02	0.99	-0.61
7	Zjets: $50 < m_{jj} < 100$	17.74 ± 0.22	16.79 ± 0.46	0.95	-1.85	6	0.66 ± 0.01	0.67 ± 0.02	1.01	0.37
8	Zjets: 2 light jets $p_T > 45$	11.31 ± 0.17	9.76 ± 0.36	0.86	-3.92	7	0.64 ± 0.01	0.58 ± 0.02	0.91	-2.43

Table 1: The cut-flow table for the S1 signal region.