

0.1 Zjets SR: S1 (ATLAS_2014_I1286761 (1403.5294))

- Process: $\tilde{\chi}_1^\pm \tilde{\chi}_2^0 \rightarrow (W^\pm \tilde{\chi}_1^0)(Z \tilde{\chi}_1^0)$: forcing $Z \rightarrow \ell^+ \ell^-$.
- Mass: $m_{\tilde{\chi}_1^\pm} = m_{\tilde{\chi}_2^0} = 250$ GeV, $m_{\tilde{\chi}_1^0} = 0$ GeV.
- The number of events: $2 \cdot 10^4$.
- 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	76.97 ± 0.47	65.31 ± 0.86	0.85	-11.86	0	0.77 ± 0.0	0.65 ± 0.01	0.85	-11.86
2	Zjets: No b- and F-jets	57.9 ± 0.41	54.05 ± 0.8	0.93	-4.26	1	0.75 ± 0.01	0.83 ± 0.01	1.1	5.63
3	Zjets: Z window	55.66 ± 0.4	49.71 ± 0.78	0.89	-6.8	2	0.96 ± 0.01	0.92 ± 0.01	0.96	-2.62
4	Zjets: $p_T^{\ell\ell} > 80$	42.18 ± 0.35	36.71 ± 0.69	0.87	-7.09	3	0.76 ± 0.01	0.74 ± 0.01	0.97	-1.26
5	Zjets: METrel > 80	20.27 ± 0.24	17.76 ± 0.49	0.88	-4.55	4	0.48 ± 0.01	0.48 ± 0.01	1.01	0.22
6	Zjets: $0.3 < \Delta R(\ell\ell) < 1.5$	14.75 ± 0.21	12.5 ± 0.42	0.85	-4.83	5	0.73 ± 0.01	0.7 ± 0.02	0.97	-0.95
7	Zjets: $50 < m_{jj} < 100$	9.46 ± 0.17	8.3 ± 0.34	0.88	-3.06	6	0.64 ± 0.01	0.66 ± 0.03	1.04	0.76
8	Zjets: 2 light jets $p_T > 45$	4.77 ± 0.12	3.79 ± 0.23	0.79	-3.74	7	0.5 ± 0.01	0.46 ± 0.03	0.91	-1.53

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