

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 ± 2.28	11.91 ± 1.5	0.15	-25.09	0	0.8 ± 0.02	0.12 ± 0.01	0.15	-25.09
2	Zjets: No b- and F-jets	59.02 ± 1.96	9.07 ± 1.31	0.15	-21.22	1	0.73 ± 0.02	0.76 ± 0.11	1.04	0.25
3	Zjets: Z window	56.57 ± 1.91	1.32 ± 0.5	0.02	-27.92	2	0.96 ± 0.03	0.15 ± 0.06	0.15	-12.71
4	Zjets: $p_T^{\ell\ell} > 80$	49.54 ± 1.79	0.76 ± 0.38	0.02	-26.64	3	0.88 ± 0.03	0.57 ± 0.29	0.65	-1.06
5	Zjets: METrel > 80	32.11 ± 1.44	0.38 ± 0.27	0.01	-21.63	4	0.65 ± 0.03	0.5 ± 0.35	0.77	-0.42
6	Zjets: $0.3 < \Delta R(\ell\ell) < 1.5$	26.91 ± 1.32	0.19 ± 0.19	0.01	-20.03	5	0.84 ± 0.04	0.5 ± 0.5	0.6	-0.67
7	Zjets: $50 < m_{jj} < 100$	17.74 ± 1.07	0.0 ± 0.0	0.0	-16.54	6	0.66 ± 0.04	0.0 ± 0.0	0.0	-16.54
8	Zjets: 2 light jets $p_T > 45$	11.31 ± 0.86	0.0 ± 0.0	0.0	-13.21	7	0.64 ± 0.05	0.0 ± 0.0	0.0	-13.21

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