

SR noZb: (ATLAS_CONF_2013_035)

- Process: $pp \rightarrow \tilde{\chi}_1^\pm \tilde{\chi}_2^0 \rightarrow (W^\pm \chi_1^0)(Z \tilde{\chi}_1^0)$.
- Mass: $m_{\tilde{\chi}_1^\pm} = m_{\tilde{\chi}_2^0} = 150$ GeV, $m_{\tilde{\chi}_1^0} = 75$ 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	Lepton multiplicity	100.0	100.0							
1	SFOS requirement	99.65 ± 9.27	98.28 ± 12.98	0.99	-0.09	0	1.0 ± 0.09	0.98 ± 0.13	0.99	-0.09
2	b -jet veto	92.83 ± 8.95	93.1 ± 12.64	1.0	0.02	1	0.93 ± 0.09	0.95 ± 0.13	1.02	0.1
3	Z veto	86.49 ± 8.64	87.93 ± 12.28	1.02	0.1	2	0.93 ± 0.09	0.94 ± 0.13	1.01	0.08
4	SRnoZb: MET > 75	23.67 ± 4.52	22.41 ± 6.21	0.95	-0.16	3	0.27 ± 0.05	0.25 ± 0.07	0.93	-0.21
5	SRnoZb: mSFOS 60-81	11.92 ± 3.21	13.79 ± 4.87	1.16	0.32	4	0.5 ± 0.14	0.62 ± 0.22	1.22	0.44
6	SRnoZb: SRnoZc veto	11.57 ± 3.16	13.79 ± 4.87	1.19	0.38	5	0.97 ± 0.26	1.0 ± 0.35	1.03	0.07

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