

## 0.1 $\tilde{\mu}^\pm(250) \rightarrow \mu^\pm \tilde{\chi}_1^0(10)$ (ATLAS\_CONF\_2013\_049)

- Process:  $\tilde{\mu}^+ \tilde{\mu}^- : \tilde{\mu}^\pm \rightarrow \mu^\pm \tilde{\chi}_1^0$ .
- Mass:  $m_{\tilde{\mu}} = 250$  GeV,  $m_{\tilde{\chi}_1^0} = 10$  GeV.
- The number of events:  $2 \cdot 10^3$ .
- Event Generator: Herwig++ 2.5.2.

#	cut name	$\epsilon_{\text{Exp}}$	$\epsilon_{\text{Atom}}$	$\frac{\text{Atom}}{\text{Exp}}$	$\frac{(\text{Exp}-\text{Atom})}{\text{Error}}$	#/?	$R_{\text{Exp}}$	$R_{\text{Atom}}$	$\frac{\text{Atom}}{\text{Exp}}$	$\frac{(\text{Exp}-\text{Atom})}{\text{Error}}$
0	$\mu\mu$ : Trigger	100.0	100.0							
1	$\mu\mu$ : Z veto	$98.0 \pm 1.74$	$95.9 \pm 1.68$	0.98	-0.87	0	$0.98 \pm 0.02$	$0.96 \pm 0.02$	0.98	-0.87
2	$\mu\mu$ : Jet veto	$40.0 \pm 1.11$	$48.61 \pm 1.61$	1.22	4.4	1	$0.41 \pm 0.01$	$0.51 \pm 0.02$	1.24	4.88
3	$\mu\mu$ : MET <sup>rel</sup>	$34.0 \pm 1.03$	$42.18 \pm 1.54$	1.24	4.42	2	$0.85 \pm 0.03$	$0.87 \pm 0.03$	1.02	0.44
4	$\mu\mu$ : $m_{T2} > 90$	$25.0 \pm 0.88$	$29.33 \pm 1.36$	1.17	2.68	3	$0.74 \pm 0.03$	$0.7 \pm 0.03$	0.95	-0.97
5	$\mu\mu$ : $m_{T2} > 110$	$22.4 \pm 0.83$	$24.77 \pm 1.27$	1.11	1.56	4	$0.9 \pm 0.03$	$0.84 \pm 0.04$	0.94	-0.95

Table 1: The cut-flow table for the  $\mu\mu$  channel.