## $\tilde{\mu}^{\pm}(250) \rightarrow \mu^{\pm} \tilde{\chi}_{1}^{0}(10)$ (ATLAS\_2014\_I1286761 (1403.5294))

• Process:  $\tilde{\mu}^+\tilde{\mu}^-: \tilde{\mu}^\pm \to \mu^\pm \tilde{\chi}^0_1$ .

• 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	$\epsilon_{ m Exp}$	$\epsilon_{ ext{Atom}}$	Atom Exp	$\frac{\text{(Exp-Atom)}}{\text{Error}}$	#/?	$R_{\mathrm{Exp}}$	$R_{\mathrm{Atom}}$	Atom Exp	(Exp-Atom) Error
0	= 2 OSlep $p_T > 35, 20$ : SF	100.0	100.0							
1	Jet veto: SF	$37.89 \pm 1.09$	$50.2 \pm 1.63$	1.32	6.26	0	$0.38 \pm 0.01$	$0.5 \pm 0.02$	1.32	6.26
2	Z veto: SF	$36.52 \pm 1.07$	$48.63 \pm 1.62$	1.33	6.24	1	$0.96 \pm 0.03$	$0.97 \pm 0.03$	1.01	0.11
3	$m_{T2} > 90$ : SF	$22.85 \pm 0.85$	$29.52 \pm 1.37$	1.29	4.14	2	$0.63 \pm 0.02$	$0.61 \pm 0.03$	0.97	-0.51
4	$m_{T2} > 20$ : SF	$17.77 \pm 0.75$	$23.26 \pm 1.25$	1.31	3.78	3	$0.78 \pm 0.03$	$0.79 \pm 0.04$	1.01	0.19
5	$m_{T2} > 150$ : SF	$13.67 \pm 0.65$	$16.91 \pm 1.09$	1.24	2.56	4	$0.77 \pm 0.04$	$0.73 \pm 0.05$	0.95	-0.71

Table 1: The cut-flow table for the same flavour channel.