

$\tilde{e}^\pm(250) \rightarrow e^\pm \tilde{\chi}_1^0(10)$ (**ATLAS_2014_I1286761 (1403.5294)**)

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

| # | cut name | 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 | Jet veto: SF | 42.13 ± 1.2 | 50.3 ± 1.74 | 1.19 | 3.87 | 0 | 0.42 ± 0.01 | 0.5 ± 0.02 | 1.19 | 3.87 |
| 2 | Z veto: SF | 41.06 ± 1.18 | 49.27 ± 1.73 | 1.2 | 3.92 | 1 | 0.97 ± 0.03 | 0.98 ± 0.03 | 1.01 | 0.11 |
| 3 | $m_{T2} > 90$: SF | 26.17 ± 0.95 | 30.66 ± 1.47 | 1.17 | 2.57 | 2 | 0.64 ± 0.02 | 0.62 ± 0.03 | 0.98 | -0.4 |
| 4 | $m_{T2} > 20$: SF | 21.28 ± 0.85 | 25.36 ± 1.36 | 1.19 | 2.55 | 3 | 0.81 ± 0.03 | 0.83 ± 0.04 | 1.02 | 0.26 |
| 5 | $m_{T2} > 150$: SF | 15.74 ± 0.73 | 18.62 ± 1.19 | 1.18 | 2.05 | 4 | 0.74 ± 0.03 | 0.73 ± 0.05 | 0.99 | -0.1 |

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