

$$\mathcal{B}(T \rightarrow bW) = 1$$

| $m_{Z'}$ [GeV] | m_T [GeV] | Efficiency SR 1 b tag [%] | Efficiency SR 2 b tag [%] |
|----------------|-------------|---------------------------|---------------------------|
| 1500 | 700 | 1.2 ± 0.2 | 1.9 ± 0.3 |
| 1500 | 900 | 0.74 ± 0.17 | 1.1 ± 0.2 |
| 1500 | 1200 | 0.23 ± 0.09 | 0.21 ± 0.09 |
| 2000 | 900 | 2.6 ± 0.3 | 3.6 ± 0.4 |
| 2000 | 1200 | 2.1 ± 0.3 | 3.0 ± 0.4 |
| 2000 | 1500 | 0.89 ± 0.18 | 0.87 ± 0.18 |
| 2500 | 1200 | 3.3 ± 0.4 | 3.9 ± 0.4 |
| 2500 | 1500 | 2.8 ± 0.3 | 3.6 ± 0.4 |

$$\mathcal{B}(T \rightarrow tH) = 1$$

| $m_{Z'}$ [GeV] | m_T [GeV] | Efficiency SR 1 b tag [%] | Efficiency SR 2 b tag [%] |
|----------------|-------------|---------------------------|---------------------------|
| 1500 | 700 | 0.55 ± 0.15 | 0.75 ± 0.17 |
| 1500 | 900 | 0.65 ± 0.16 | 0.93 ± 0.19 |
| 1500 | 1200 | 0.26 ± 0.10 | 0.37 ± 0.12 |
| 2000 | 900 | 1.8 ± 0.3 | 2.6 ± 0.3 |
| 2000 | 1200 | 2.0 ± 0.3 | 2.9 ± 0.3 |
| 2000 | 1500 | 1.7 ± 0.3 | 2.2 ± 0.3 |
| 2500 | 1200 | 2.9 ± 0.3 | 3.9 ± 0.4 |
| 2500 | 1500 | 3.0 ± 0.3 | 4.1 ± 0.4 |

$$\mathcal{B}(T \rightarrow tZ) = 1$$

| $m_{Z'}$ [GeV] | m_T [GeV] | Efficiency SR 1 b tag [%] | Efficiency SR 2 b tag [%] |
|----------------|-------------|---------------------------|---------------------------|
| 1500 | 700 | 0.62 ± 0.15 | 0.84 ± 0.18 |
| 1500 | 900 | 0.78 ± 0.17 | 0.98 ± 0.19 |
| 1500 | 1200 | 0.50 ± 0.14 | 0.54 ± 0.14 |
| 2000 | 900 | 2.4 ± 0.3 | 3.1 ± 0.4 |
| 2000 | 1200 | 2.8 ± 0.3 | 3.9 ± 0.4 |
| 2000 | 1500 | 2.3 ± 0.3 | 2.8 ± 0.3 |
| 2500 | 1200 | 4.3 ± 0.4 | 5.4 ± 0.5 |
| 2500 | 1500 | 4.5 ± 0.4 | 6.0 ± 0.5 |