|   | 300 GeV, 10 cm, region 2017  |   |  |  |
|---|--|---|--|--|
| Cut   | $\epsilon_i^{ m CMS}$  | $  \epsilon_i^{\mathrm{sim}}, \mathrm{HEPMC}  $   | $\left \begin{array}{c} \epsilon_i^{\mathrm{sim}},  \mathrm{HEPMC},  \mathrm{no}   \mathrm{pileup} \end{array}\right $ |  |
| total   | $1.0^{+0.00}_{-0.00}$  | $1.0^{+0.00}_{-0.00}$   | $1.0^{+0.00}_{-0.00}$  |  |
| trigger   | $1.3^{+0.02}_{-0.02} \times 10^{-1}$   | $9.2^{+0.09}_{-0.09} \times 10^{-2}$  | $9.2^{+0.09}_{-0.09} \times 10^{-2}$   |  |
| passes $p_{\mathrm{T}}^{\mathrm{miss}}$ filters                             | $1.3^{+0.02}_{-0.02} \times 10^{-1}$   | $9.2^{+0.09}_{-0.09} \times 10^{-2}$  | $9.2^{+0.09}_{-0.09} \times 10^{-2}$   |  |
| $p_{\mathrm{T}}^{\mathrm{miss}} > 120\mathrm{GeV}$                          | $1.3^{+0.02}_{-0.02} \times 10^{-1}$   | $9.2^{+0.09}_{-0.09} \times 10^{-2}$  | $9.2^{+0.09}_{-0.09} \times 10^{-2}$   |  |
| $\geq 1$ jet with $p_{\mathrm{T}} > 110\mathrm{GeV}$ and $ \eta  < 2.4$     | $8.0^{+0.13}_{-0.13} \times 10^{-2}$   | $7.5^{+0.09}_{-0.09} \times 10^{-2}$  | $7.5^{+0.09}_{-0.09} \times 10^{-2}$   |  |
| ==0 pairs of jets with $\Delta \phi_{\rm jet, jet} > 2.5$                   | $7.0^{+0.12}_{-0.12} \times 10^{-2}$   | $6.3^{+0.08}_{-0.08} \times 10^{-2}$  | $6.3^{+0.08}_{-0.08} \times 10^{-2}$   |  |
| $ \Delta\phi({ m leading jet}, ar{p}_{ m T}^{ m miss})  > 0.5$              | $7.0^{+0.12}_{-0.12} \times 10^{-2}$   | $ 6.3^{+0.08}_{-0.08} \times 10^{-2} $  | $6.3^{+0.08}_{-0.08} \times 10^{-2}$   |  |
| $\geq 1 \text{ track with }  \eta  < 2.1$                                   | $6.8^{+0.12}_{-0.12} \times 10^{-2}$   | $6.3^{+0.08}_{-0.08} \times 10^{-2}$  | $6.3^{+0.08}_{-0.08} \times 10^{-2}$   |  |
| $\geq 1 \text{ track with } p_{\mathrm{T}} > 55 \mathrm{GeV}$               | $3.2^{+0.08}_{-0.08} \times 10^{-2}$   | $3.0^{+0.06}_{-0.06} \times 10^{-2}$  | $3.0^{+0.06}_{-0.06} \times 10^{-2}$   |  |
| $\geq 1$ track passing fiducial selections                                  | $2.2^{+0.07}_{-0.07} \times 10^{-2}$   | $ 2.3^{+0.05}_{-0.05} \times 10^{-2} $  | $2.3^{+0.05}_{-0.05} \times 10^{-2}$   |  |
| $\geq 1$ track with $\geq 4$ pixel hits                                     | $1.3^{+0.05}_{-0.05} \times 10^{-2}$   | $1.7^{+0.04}_{-0.04} \times 10^{-2}$  | $1.6^{+0.04}_{-0.04} \times 10^{-2}$   |  |
| $\geq 1$ track with no missing inner hits                                   | $1.3^{+0.05}_{-0.05} \times 10^{-2}$   | $\begin{array}{c} 1.3^{+0.04}_{-0.04} \times 10^{-2} \\ 1.3^{+0.04}_{-0.04} \times 10^{-2} \\ 1.3^{+0.04}_{-0.04} \times 10^{-2} \end{array}$ | $1.3^{+0.04}_{-0.04} \times 10^{-2}$   |  |
| $\geq 1$ track with no missing middle hits                                  | $1.2^{+0.05}_{-0.05} \times 10^{-2}$   | $1.3^{+0.04}_{-0.04} \times 10^{-2}$  | $1.3^{+0.04}_{-0.04} \times 10^{-2}$   |  |
| $\geq 1$ track with relative track isolation $< 5\%$                        | $5.8^{+0.34}_{-0.34} \times 10^{-3}$   | $ 6.2^{+0.26}_{-0.26} \times 10^{-3} $  | $6.0^{+0.25}_{-0.25} \times 10^{-3}$   |  |
| $\geq 1 \text{ track with }  d_{xy}  < 0.02  \text{cm}$                     | $5.7^{+0.34}_{-0.34} \times 10^{-3}$   | $6.2^{+0.26}_{-0.26} \times 10^{-3}$  | $6.0^{+0.25}_{-0.25} \times 10^{-3}$   |  |
| $\geq 1 \text{ track with }  d_z  < 0.5 \text{ cm}$                         | $5.7^{+0.34}_{-0.34} \times 10^{-3}$   | $6.2^{+0.26}_{-0.26} \times 10^{-3}$  | $6.0^{+0.25}_{-0.25} \times 10^{-3}$   |  |
| $\geq 1$ track with $\Delta R(\text{track}, \text{jet}) > 0.5$              | $5.5^{+0.33}_{-0.33} \times 10^{-3}$   | $6.1^{+0.25}_{-0.25} \times 10^{-3}$  | $5.9^{+0.25}_{-0.25} \times 10^{-3}$   |  |
| $\geq 1$ track with $\Delta R(\text{track}, \text{electron}) > 0.15$        | $5.4^{+0.33}_{-0.33} \times 10^{-3}$   | $6.1^{+0.25}_{-0.25} \times 10^{-3}$  | $5.9^{+0.25}_{-0.25} \times 10^{-3}$   |  |
| $\geq 1 \text{ track with } \Delta R(\text{track}, \text{muon}) > 0.15$     | $5.4_{-0.33}^{+0.33} \times 10^{-3}$   | $ 6.1^{+0.25}_{-0.25} \times 10^{-3} $  | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$  |  |
| $\geq 1 \text{ track with } \Delta R(\text{track}, \tau_{\text{h}}) > 0.15$ | $5.4^{+0.33}_{-0.33} \times 10^{-3}$   | $6.1^{+0.25}_{-0.25} \times 10^{-3}$  | $5.9^{+0.25}_{-0.25} \times 10^{-3}$   |  |
| $\geq 1 \text{ track with } E_{\text{calo}} < 10 \text{GeV}$                | $5.3^{+0.33}_{-0.33} \times 10^{-3}$   | $6.1^{+0.25}_{-0.25} \times 10^{-3}$  | $5.9^{+0.05} \times 10^{-9}$   |  |
| $\geq 1$ track with $\geq 3$ missing outer hits                             | $\parallel 5.2^{+0.33}_{-0.33} \times 10^{-3}$   | $5.9^{+0.25}_{-0.25} \times 10^{-3}$  | $5.8^{+0.25}_{-0.25} \times 10^{-3}$   |  |
| ≥ 1 track 4 layers  | $\begin{array}{c} -0.39 \\ 3.0^{+0.25}_{-0.25} \times 10^{-3} \\ 1.2^{+0.15}_{-0.15} \times 10^{-3} \\ 1.2^{+0.15}_{-0.15} \times 10^{-3} \end{array}$ | $ 2.6^{+0.17}_{-0.17} \times 10^{-3} $  | $2.6^{+0.17}_{-0.17} \times 10^{-3}$   |  |
| $\geq 1$ track 5 layers   | $1.2^{+0.15}_{-0.15} \times 10^{-3}$   | $1.3^{+0.12}_{-0.12} \times 10^{-3}$  | $1.4^{+0.12}_{-0.12} \times 10^{-3}$   |  |
| $\geq 1 \text{ track with } \geq 6 \text{ layers}$                          | $1.0^{+0.15}_{-0.15} \times 10^{-3}$   | $1.9^{+0.14}_{-0.14} \times 10^{-3}$  | $1.7^{+0.13}_{-0.13} \times 10^{-3}$   |  |

Table 1: Cutflow comparison for 300 GeV, 10 cm, region 2017

|   | 300 GeV, 10 cm, region 2018A   |                                      |   |  |
|---|--|--------------------------------------|---|--|
| Cut   | $\epsilon_i^{	ext{CMS}}$   | $\epsilon_i^{ m sim}, { m HEPMC}$    | $\mid \epsilon_i^{ m sim},$ HEPMC, no pileup $\mid$ |  |
| total   | $1.0^{+0.00}_{-0.00}$  | $1.0^{+0.00}_{-0.00}$                | $1.0^{+0.00}_{-0.00}$                               |  |
| trigger   | $9.1^{+0.13}_{-0.13} \times 10^{-2}$   | $9.2^{+0.09}_{-0.09} \times 10^{-2}$ | $9.2^{+0.09}_{-0.09} \times 10^{-2}$                |  |
| passes $p_{\mathrm{T}}^{\mathrm{miss}}$ filters                             | $9.1^{+0.13}_{-0.13} \times 10^{-2}$   | $9.2^{+0.09}_{-0.09} \times 10^{-2}$ | $9.2^{+0.09}_{-0.09} \times 10^{-2}$                |  |
| $p_{\mathrm{T}}^{\mathrm{miss}} > 120\mathrm{GeV}$                          | $8.9^{+0.13}_{-0.13} \times 10^{-2}$   | $9.2^{+0.09}_{-0.09} \times 10^{-2}$ | $9.2^{+0.09}_{-0.09} \times 10^{-2}$                |  |
| $\geq 1$ jet with $p_{ m T} > 110{ m GeV}$ and $ \eta  < 2.4$               | $8.0^{+0.13}_{-0.13} \times 10^{-2}$   | $7.5^{+0.09}_{-0.09} \times 10^{-2}$ | $7.5^{+0.09}_{-0.09} \times 10^{-2}$                |  |
| ==0 pairs of jets with $\Delta \phi_{\rm jet,\ jet} > 2.5$                  | $7.0^{+0.12}_{-0.12} \times 10^{-2}$   | $6.3^{+0.08}_{-0.08} \times 10^{-2}$ | $6.3^{+0.08}_{-0.08} \times 10^{-2}$                |  |
| $ \Delta\phi({ m leading\ jet}, ar{p}_{ m T}^{ m miss})  > 0.5$             | $ \begin{array}{c c}                                    $  | $6.3^{+0.08}_{-0.08} \times 10^{-2}$ | $6.3^{+0.08}_{-0.08} \times 10^{-2}$                |  |
| $\geq 1$ track with $ \eta  < 2.1$  | $6.8^{+0.12}_{-0.12} \times 10^{-2}$   | $6.3^{+0.08}_{-0.08} \times 10^{-2}$ | $6.3^{+0.08}_{-0.08} \times 10^{-2}$                |  |
| $\geq 1 \text{ track with } p_{\mathrm{T}} > 55 \mathrm{GeV}$               | $3.2^{+0.08}_{-0.08} \times 10^{-2}$   | $3.0^{+0.06}_{-0.06} \times 10^{-2}$ | $3.0^{+0.06}_{-0.06} \times 10^{-2}$                |  |
| $\geq 1$ track passing fiducial selections                                  | $2.0^{+0.06}_{-0.06} \times 10^{-2}$   | $2.3^{+0.05}_{-0.05} \times 10^{-2}$ | $2.3^{+0.05}_{-0.05} \times 10^{-2}$                |  |
| $\geq 1$ track with $\geq 4$ pixel hits                                     | $1.1^{+0.05}_{-0.05} \times 10^{-2}$   | $1.7^{+0.04}_{-0.04} \times 10^{-2}$ | $1.6^{+0.04}_{-0.04} \times 10^{-2}$                |  |
| $\geq 1$ track with no missing inner hits                                   | $1.1^{+0.05}_{-0.05} \times 10^{-2}$   | $1.3^{+0.04}_{-0.04} \times 10^{-2}$ | $1.3^{+0.04}_{-0.04} \times 10^{-2}$                |  |
| $\geq 1$ track with no missing middle hits                                  | $1.0^{+0.05}_{-0.05} \times 10^{-2}$   | $1.3^{+0.04}_{-0.04} \times 10^{-2}$ | $1.3^{+0.04}_{-0.04} \times 10^{-2}$                |  |
| $\geq 1$ track with relative track isolation $< 5\%$                        | $5.1^{+0.32}_{-0.32} \times 10^{-3}$   | $6.2^{+0.26}_{-0.26} \times 10^{-3}$ | $6.0^{+0.25}_{-0.25} \times 10^{-3}$                |  |
| $\geq 1 \text{ track with }  d_{xy}  < 0.02  \text{cm}$                     | $5.1^{+0.32}_{-0.32} \times 10^{-3}$   | $6.2^{+0.26}_{-0.26} \times 10^{-3}$ | $6.0^{+0.25}_{-0.25} \times 10^{-3}$                |  |
| $\geq 1$ track with $ d_z  < 0.5 \mathrm{cm}$                               | $5.1^{+0.32}_{-0.32} \times 10^{-3}$   | $6.2^{+0.26}_{-0.26} \times 10^{-3}$ | $6.0^{+0.25}_{-0.25} \times 10^{-3}$                |  |
| $\geq 1$ track with $\Delta R(\text{track}, \text{jet}) > 0.5$              | $5.0^{+0.32}_{-0.32} \times 10^{-3}$   | $6.1^{+0.25}_{-0.25} \times 10^{-3}$ | $5.9^{+0.25}_{-0.25} \times 10^{-3}$                |  |
| $\geq 1$ track with $\Delta R(\text{track}, \text{electron}) > 0.15$        | $4.9^{+0.31}_{-0.31} \times 10^{-3}$   | $6.1^{+0.25}_{-0.25} \times 10^{-3}$ | $5.9^{+0.25}_{-0.25} \times 10^{-3}$                |  |
| $\geq 1 \text{ track with } \Delta R(\text{track, muon}) > 0.15$            | $\begin{array}{ c c c c c c c c c c c c c c c c c c c$   | $6.1^{+0.25}_{-0.25} \times 10^{-3}$ | $5.9^{+0.25}_{-0.25} \times 10^{-3}$                |  |
| $\geq 1 \text{ track with } \Delta R(\text{track}, \tau_{\text{h}}) > 0.15$ | $4.9^{+0.31}_{-0.31} \times 10^{-3}$   | $6.1^{+0.25}_{-0.25} \times 10^{-3}$ | $5.9^{+0.25}_{-0.25} \times 10^{-3}$                |  |
| $\geq 1 \text{ track with } E_{\text{calo}} < 10 \text{GeV}$                | $4.8^{+0.31}_{-0.31} \times 10^{-3}$   | $6.1^{+0.25}_{-0.25} \times 10^{-3}$ | $5.9^{+0.25}_{-0.25} \times 10^{-3}$                |  |
| $\geq 1$ track with $\geq 3$ missing outer hits                             | $\begin{array}{ c c c c c c }\hline 4.8^{+0.31}_{-0.31} \times 10^{-3} \\ 4.8^{+0.31}_{-0.32} \times 10^{-3} \\ \end{array}$ | $5.9^{+0.25}_{-0.25} \times 10^{-3}$ | $5.8^{+0.25}_{-0.25} \times 10^{-3}$                |  |
| $\geq 1$ track 4 layers   | $2.6^{+0.23}_{-0.23} \times 10^{-3}$   | $2.5^{+0.16}_{-0.16} \times 10^{-3}$ | $2.5^{+0.16}_{-0.16} \times 10^{-3}$                |  |
| $\geq 1$ track 5 layers   | $1.1^{+0.15}_{-0.15} \times 10^{-3}$   | $1.3^{+0.12}_{-0.12} \times 10^{-3}$ | $  1.4_{-0.12} \wedge 10  $                         |  |
| $\geq 1$ track with $\geq 6$ layers   | $1.1^{+0.15}_{-0.15} \times 10^{-3}$   | $1.9^{+0.14}_{-0.14} \times 10^{-3}$ | $1.7^{+0.14}_{-0.14} \times 10^{-3}$                |  |

Table 2: Cutflow comparison for 300 GeV, 10 cm, region 2018 A

|   | 300 GeV, 10 cm, region 2018B  |  |  |  |
|---|---|--|--|--|
| Cut   | $\epsilon_i^{	ext{CMS}}$  | $\epsilon_i^{\mathrm{sim}}$ , HEPMC  | $\epsilon_i^{ m sim},$ HEPMC, no pileup  |  |
| total   | $1.0^{+0.00}_{-0.00}$   | $1.0^{+0.00}_{-0.00}$  | $1.0^{+0.00}_{-0.00}$  |  |
| trigger   | $9.1^{+0.14}_{-0.14} \times 10^{-2}$  | $9.2^{+0.09} \times 10^{-2}$   | $9.2^{+0.09}_{-0.09} \times 10^{-2}$   |  |
| passes $p_{\mathrm{T}}^{\mathrm{miss}}$ filters                                   | $9.1^{+0.14}_{-0.14} \times 10^{-2}$  | $9.2^{+0.09}_{-0.09} \times 10^{-2}$   | $9.2^{+0.09}_{-0.09} \times 10^{-2}$   |  |
| $p_{\mathrm{T}}^{\mathrm{miss}} > 120\mathrm{GeV}$                                | $  0.0 \pm 0.13 \times 10^{-2}  $   | $9.2^{+0.09}_{-0.09} \times 10^{-2}$   | $9.2^{+0.09}_{-0.09} \times 10^{-2}$   |  |
| $\geq 1$ jet with $p_{\rm T} > 110{ m GeV}$ and $ \eta  < 2.4$                    | $8.0^{+0.13}_{-0.13} \times 10^{-2}$  | $7.5^{+0.09}_{-0.09} \times 10^{-2}$   | $7.5^{+0.09}_{-0.09} \times 10^{-2}$   |  |
| ==0 pairs of jets with $\Delta \phi_{\rm jet, jet} > 2.5$                         | $7.0^{+0.12}_{-0.12} \times 10^{-2}$  | $6.3^{+0.08}_{-0.08} \times 10^{-2}$   | $6.3^{+0.08}_{-0.08} \times 10^{-2}$   |  |
| $ \Delta\phi({ m leading\ jet}, ec{p}_{ m T}^{ m miss})  > 0.5$                   | $7.0^{+0.12}_{-0.12} \times 10^{-2}$  | $6.3_{-0.08}^{+0.08} \times 10^{-2}$ $6.3_{-0.08}^{+0.08} \times 10^{-2}$                                      | $6.3^{+0.08}_{-0.08} \times 10^{-2}$   |  |
| $\geq 1$ track with $ \eta  < 2.1$  | $ 6.8^{+0.12}_{-0.12} \times 10^{-2} $  | $6.3^{+0.08}_{-0.08} \times 10^{-2}$   | $6.3^{+0.08}_{-0.08} \times 10^{-2}$   |  |
| $\geq 1 \text{ track with } p_{\mathrm{T}} > 55 \mathrm{GeV}$                     | $3.2^{+0.08}_{-0.08} \times 10^{-2}$  | $3.0^{+0.06}_{-0.06} \times 10^{-2}$   | $3.0^{+0.06}_{-0.06} \times 10^{-2}$   |  |
| $\geq 1$ track passing fiducial selections  | $2.1^{+0.06}_{-0.06} \times 10^{-2}$  | $2.3^{+0.05}_{-0.05} \times 10^{-2}$   | $2.3^{+0.05}_{-0.05} \times 10^{-2}$   |  |
| $\geq 1$ track with $\geq 4$ pixel hits   | $1.1^{+0.05}_{-0.05} \times 10^{-2}$  | $1.7^{+0.04}_{-0.04} \times 10^{-2}$   | $1.6^{+0.04}_{-0.04} \times 10^{-2}$   |  |
| $\geq 1$ track with no missing inner hits   | $1.1^{+0.05}_{-0.05} \times 10^{-2}$  | $1.3^{+0.04}_{-0.04} \times 10^{-2}$   | $1.3^{+0.04}_{-0.04} \times 10^{-2}$   |  |
| $\geq 1$ track with no missing middle hits  | $\begin{array}{ c c c c c }\hline 1.0^{+0.05}_{-0.05} \times 10^{-2} \\ 5.1^{+0.32}_{-0.32} \times 10^{-3} \\ \hline \end{array}$   | $1.3^{+0.04}_{-0.04} \times 10^{-2}$   | $1.3^{+0.04}_{-0.04} \times 10^{-2}$ $6.0^{+0.25}_{-0.25} \times 10^{-3}$  |  |
| $\geq 1$ track with relative track isolation $< 5\%$                              | $\begin{array}{c} 1.0^{+0.05}_{-0.05} \times 10^{-2} \\ 5.1^{+0.32}_{-0.32} \times 10^{-3} \\ 5.1^{+0.32}_{-0.32} \times 10^{-3} \\ \end{array}$                                    | $6.2^{+0.26}_{-0.26} \times 10^{-3}$   | $6.0^{+0.25}_{-0.25} \times 10^{-3}$   |  |
| $\geq 1 \text{ track with }  d_{xy}  < 0.02  \text{cm}$                           | $\begin{array}{c} 5.1_{-0.32}^{+0.32} \times 10^{-3} \\ 5.1_{-0.32}^{+0.32} \times 10^{-3} \\ 5.1_{-0.32}^{+0.32} \times 10^{-3} \\ 5.0_{-0.32}^{+0.32} \times 10^{-3} \end{array}$ | $6.2^{+0.26}_{-0.26} \times 10^{-3}$   | $6.0^{+0.25}_{-0.25} \times 10^{-3}$   |  |
| $\geq 1 \text{ track with }  d_z  < 0.5 \text{ cm}$                               | $5.1^{+0.32}_{-0.32} \times 10^{-3}$  | $6.2^{+0.26}_{-0.26} \times 10^{-3}$   | $6.0^{+0.25}_{-0.25} \times 10^{-3}$   |  |
| $\geq 1$ track with $\Delta R(\text{track, jet}) > 0.5$                           | $5.0^{+0.32}_{-0.32} \times 10^{-3}$  | $6.1^{+0.25}_{-0.25} \times 10^{-3}$   | $5.9_{-0.25}^{+0.25} \times 10^{-3}$ $5.9_{-0.25}^{+0.25} \times 10^{-3}$  |  |
| $\geq 1 \text{ track with } \Delta R(\text{track, electron}) > 0.15$              | $4.9^{+0.31}_{-0.31} \times 10^{-3}$  | $6.1_{-0.25}^{+0.25} \times 10^{-3}$ $6.1_{-0.25}^{+0.25} \times 10^{-3}$ $6.1_{-0.25}^{+0.25} \times 10^{-3}$ | $\begin{array}{c} -0.25 \\ 5.9^{+0.25}_{-0.25} \times 10^{-3} \\ 5.9^{+0.25}_{-0.25} \times 10^{-3} \end{array}$ |  |
| $\geq 1 \text{ track with } \Delta R(\text{track, muon}) > 0.15$                  | $\begin{array}{c} 4.9_{-0.31}^{+0.31} \times 10^{-3} \\ 4.8_{-0.31}^{+0.31} \times 10^{-3} \\ 4.9_{-0.31}^{+0.31} \times 10^{-3} \end{array}$                                       | $6.1^{+0.25}_{-0.25} \times 10^{-3}$   | $5.9^{+0.25}_{-0.25} \times 10^{-3}$   |  |
| $\geq 1 \text{ track with } \Delta R(\text{track}, \tau_{\text{h}}) > 0.15$       | $4.8^{+0.01}_{-0.31} \times 10^{-5}$  | $6.1^{+0.25}_{-0.25} \times 10^{-3}$   | $5.9^{+0.25}_{-0.25} \times 10^{-3}$   |  |
| $\geq 1 \text{ track with } E_{\text{calo}} < 10 \text{GeV}$                      | $4.8^{+0.31}_{-0.31} \times 10^{-3}$  | $6.1^{+0.25}_{-0.25} \times 10^{-3}$   | $5.9^{+0.25}_{-0.25} \times 10^{-3}$   |  |
| $\geq 1$ track with $\geq 3$ missing outer hits                                   | $4.7^{+0.31}_{-0.31} \times 10^{-3}$  | $5.9^{+0.25}_{-0.25} \times 10^{-3}$   | $5.8^{+0.25}_{-0.25} \times 10^{-3}$   |  |
| $\phi(p_{\rm T}^{\rm miss}) < -1.6 \text{ or } \phi(p_{\rm T}^{\rm miss}) > -0.6$ | $4.0^{+0.28}_{-0.28} \times 10^{-3}$  | $4.8^{+0.23}_{-0.23} \times 10^{-3}$   | $4.7^{+0.22}_{-0.22} \times 10^{-3}$   |  |
| $\geq 1$ track 4 layers   | $2.2^{+0.21}_{-0.21} \times 10^{-3}$  | $2.1^{+0.15}_{-0.15} \times 10^{-3}$   | $2.1^{+0.15}_{-0.15} \times 10^{-3}$   |  |
| $\geq 1$ track 5 layers   | $9.4^{+1.39}_{-1.39} \times 10^{-4}$  | $1.1^{+0.11}_{-0.11} \times 10^{-3}$   | $1.1^{+0.11}_{-0.11} \times 10^{-3}$   |  |
| $\geq 1$ track with $\geq 6$ layers   | $9.2^{+1.34}_{-1.34} \times 10^{-4}$  | $1.5^{+0.12}_{-0.12} \times 10^{-3}$   | $1.4^{+0.12}_{-0.12} \times 10^{-3}$   |  |

Table 3: Cutflow comparison for 300 GeV,  $10~\mathrm{cm}$ , region 2018B