	200 G IV 1000			
	300 GeV, 1000 cm, region 2017			
Cut	$\epsilon_i^{ m CMS}$	$\epsilon_i^{\rm sim},{ m MLM}$	$\epsilon_i^{\rm sim}$ , MLM, no pileup	
total	$1.0^{+0.00}_{-0.00}$	$1.0^{+0.00}_{-0.00}$	$1.0^{+0.00}_{-0.00}$	
trigger	$1.4^{+0.02}_{-0.02} \times 10^{-1}$	$1.0^{+0.01}_{-0.01} \times 10^{-1}$	$1.0^{+0.01}_{-0.01} \times 10^{-1}$	
passes $p_{\mathrm{T}}^{\mathrm{miss}}$ filters	$1.4^{+0.02}_{-0.02} \times 10^{-1}$	$1.0^{+0.01}_{-0.01} \times 10^{-1}$	$1.0^{+0.01}_{-0.01} \times 10^{-1}$	
$p_{\mathrm{T}}^{\mathrm{miss}} > 120\mathrm{GeV}$	$1.3^{+0.02}_{-0.02} \times 10^{-1}$	$1.0^{+0.01}_{-0.01} \times 10^{-1}$	$1.0^{+0.01}_{-0.01} \times 10^{-1}$	
$\geq 1$ jet with $p_{ m T} > 110{ m GeV}$ and $ \eta  < 2.4$	$8.3^{+0.13}_{-0.13} \times 10^{-2}$	$5.4^{+0.07}_{-0.07} \times 10^{-2}$	$5.3^{+0.07}_{-0.07} \times 10^{-2}$	
==0 pairs of jets with $\Delta \phi_{\rm jet, jet} > 2.5$	$7.2^{+0.12}_{-0.12} \times 10^{-2}$	$4.7^{+0.07}_{-0.07} \times 10^{-2}$	$4.6^{+0.07}_{-0.07} \times 10^{-2}$	
$ \Delta\phi({ m leading jet}, ec{p}_{ m T}^{ m miss})  > 0.5$	$ \begin{array}{c} 1.2_{-0.12} \times 10 \\ 7.2_{-0.12}^{+0.12} \times 10^{-2} \\ 7.2_{-0.12}^{+0.12} \times 10^{-2} \\ 6.2_{-0.11}^{+0.11} \times 10^{-2} \\ 4.5_{-0.11}^{+0.10} \times 10^{-2} \end{array} $	$4.5^{+0.07}_{-0.07} \times 10^{-2}$	$4.5^{+0.07}_{-0.07} \times 10^{-2}$	
$\geq 1 \text{ track with }  \eta  < 2.1$	$7.2^{+0.12}_{-0.12} \times 10^{-2}$	$4.5^{+0.07}_{-0.07} \times 10^{-2}$	$\begin{array}{c c} 4.5^{+0.07}_{-0.07} \times 10^{-2} \\ 4.1^{+0.06}_{-0.06} \times 10^{-2} \end{array}$	
$\geq 1 \text{ track with } p_{\mathrm{T}} > 55 \mathrm{GeV}$	$6.2^{+0.11}_{-0.11} \times 10^{-2}$	$4.1^{+0.06}_{-0.06} \times 10^{-2}$	$4.1^{+0.06}_{-0.06} \times 10^{-2}$	
$\geq 1$ track passing fiducial selections	$\parallel 4.0^{\circ}_{-0.10} \times 10^{-5}$	$\begin{vmatrix} 4.1_{-0.06}^{+0.06} \times 10^{-2} \\ 3.4_{-0.06}^{+0.06} \times 10^{-2} \end{vmatrix}$	$3.4^{+0.06}_{-0.06} \times 10^{-2}$	
$\geq 1 \text{ track with } \geq 4 \text{ pixel hits}$	$\begin{array}{c} 3.3_{-0.08}^{+0.08} \times 10^{-2} \\ 3.3_{-0.08}^{+0.08} \times 10^{-2} \end{array}$	$2.7^{+0.05}_{-0.05} \times 10^{-2}$	$\begin{array}{c c} 2.7^{+0.05}_{-0.05} \times 10^{-2} \\ 1.8^{+0.04}_{-0.04} \times 10^{-2} \end{array}$	
$\geq 1$ track with no missing inner hits	$3.3^{+0.08}_{-0.08} \times 10^{-2}$	$1.9^{+0.04}_{-0.04} \times 10^{-2}$	$1.8^{+0.04}_{-0.04} \times 10^{-2}$	
$\geq 1$ track with no missing middle hits	$\parallel 3.0^{+0.08}_{-0.08} \times 10^{-2}$	$1.9^{+0.04}_{-0.04} \times 10^{-2}$	$\begin{array}{c} 2.7_{-0.05} \times 10^{-2} \\ 1.8_{-0.04}^{+0.04} \times 10^{-2} \\ 1.8_{-0.04}^{+0.04} \times 10^{-2} \\ 1.4_{-0.04}^{+0.04} \times 10^{-2} \end{array}$	
$\geq 1$ track with relative track isolation $< 5\%$	$  2.5^{+0.07}_{-0.07} \times 10^{-2}  $	$1.3^{+0.04}_{-0.04} \times 10^{-2}$	$1.4^{+0.04}_{-0.04} \times 10^{-2}$	
$\geq 1  ext{ track with }  d_{ ext{xy}}  < 0.02  ext{ cm}$	$2.5^{+0.07}_{-0.07} \times 10^{-2}$	$1.3^{+0.04}_{-0.04} \times 10^{-2}$	$1.4^{+0.04}_{-0.04} \times 10^{-2}$	
$\geq 1 \text{ track with }  d_z  < 0.5 \text{ cm}$	$2.5^{+0.07}_{-0.07} \times 10^{-2}$	$1.3^{+0.04}_{-0.04} \times 10^{-2}$	$1.4^{+0.04}_{-0.04} \times 10^{-2}$	
$\geq 1 \text{ track with } \Delta R(\text{track, jet}) > 0.5$	$2.5^{+0.07}_{-0.07} \times 10^{-2}$	$1.3^{+0.04}_{-0.04} \times 10^{-2}$	$1.4^{+0.04}_{-0.04} \times 10^{-2}$	
$\geq 1 \text{ track with } \Delta R(\text{track, electron}) > 0.15$	$2.3^{+0.07}_{-0.07} \times 10^{-2}$	$1.2^{+0.04}_{-0.04} \times 10^{-2}$	$1.4^{+0.04}_{-0.04} \times 10^{-2}$	
$\geq 1 \text{ track with } \Delta R(\text{track}, \text{muon}) > 0.15$	$0.1 \pm 0.41 \dots 10 - 3$	$7.3^{+0.28}_{-0.28} \times 10^{-3}$	$\begin{array}{c} 8.5_{-0.30}^{+0.30} \times 10^{-3} \\ 8.5_{-0.30}^{+0.30} \times 10^{-3} \end{array}$	
$\geq 1 \text{ track with } \Delta R(\text{track}, \tau_{\text{h}}) > 0.15$	$8.1^{+0.41}_{-0.41} \times 10^{-3}$	$7.3^{+0.28}_{-0.28} \times 10^{-3}$	$8.5_{-0.30}^{+0.30} \times 10^{-3}  8.5_{-0.30}^{+0.30} \times 10^{-3}  8.5_{-0.30}^{+0.30} \times 10^{-3}$	
$\geq 1 \text{ track with } E_{\text{calo}} < 10 \text{GeV}$	$8.0^{+0.41}_{-0.41} \times 10^{-3}$	$7.3^{+0.28}_{-0.28} \times 10^{-3}$	$8.5^{+0.30}_{-0.30} \times 10^{-3}$	
$\geq 1$ track with $\geq 3$ missing outer hits	$  2.3  _{0.22} \times 10^{-9}$	$1.3^{+0.12}_{-0.12} \times 10^{-3}$	$1.7^{+0.13}_{-0.13} \times 10^{-3}$	
$\geq 1$ track with number of tracker layers with measurement == 4	$3.7^{+0.86}_{-0.86} \times 10^{-4}$	$1.3^{+0.37}_{-0.37} \times 10^{-4}$	$1.7^{+0.42}_{-0.42} \times 10^{-4}$	
$\geq 1$ track with number of tracker layers with measurement == 5	$\begin{array}{c c} 3.7^{+0.86}_{-0.86} \times 10^{-4} \\ 3.7^{+0.86}_{-0.86} \times 10^{-4} \end{array}$	$\begin{array}{c} 1.2_{-0.04} \times 10 \\ 7.3_{-0.28}^{+0.28} \times 10^{-3} \\ 7.3_{-0.28}^{+0.28} \times 10^{-3} \\ 7.3_{-0.28}^{+0.28} \times 10^{-3} \\ 1.3_{-0.12}^{+0.12} \times 10^{-3} \\ 1.3_{-0.37}^{+0.37} \times 10^{-4} \\ 1.5_{-0.40}^{+0.40} \times 10^{-4} \\ 1.6_{-0.40}^{+0.10} \times 10^{-3} \end{array}$	$\begin{array}{c} 1.7^{+0.13}_{-0.13} \times 10^{-3} \\ 1.7^{+0.13}_{-0.13} \times 10^{-3} \\ 1.7^{+0.42}_{-0.42} \times 10^{-4} \\ 2.3^{+0.50}_{-0.50} \times 10^{-4} \end{array}$	
$\geq 1$ track with number of tracker layers with measurement $\geq 6$	$1.6^{+0.18}_{-0.18} \times 10^{-3}$	$1.0^{+0.10}_{-0.10} \times 10^{-3}$	$1.3^{+0.12}_{-0.12} \times 10^{-3}$	

Table 1: Cutflow comparison for 300 GeV, 1000 cm, region 2017

	200 G 77 1000		
	300 GeV, 1000 cm, region 2018A		
Cut	$\epsilon_i^{ m CMS}$	$\epsilon_i^{\rm sim},{ m MLM}$	$\epsilon_i^{ m sim},{ m MLM},{ m no}{ m pileup}$
total	$1.0^{+0.00}_{-0.00}$	$1.0^{+0.00}_{-0.00}$	$1.0^{+0.00}_{-0.00}$
trigger	$9.8^{+0.14}_{-0.14} \times 10^{-2}$	$1.0^{+0.01}_{-0.01} \times 10^{-1}$	$1.0^{+0.01}_{-0.01} \times 10^{-1}$
passes $p_{\mathrm{T}}^{\mathrm{miss}}$ filters	$9.8^{+0.14}_{-0.14} \times 10^{-2}$	$1.0^{+0.01}_{-0.01} \times 10^{-1}$	$1.0^{+0.01}_{-0.01} \times 10^{-1}$
$p_{\mathrm{T}}^{\mathrm{miss}} > 120\mathrm{GeV}$	$9.5^{+0.14}_{-0.14} \times 10^{-2}$	$1.0^{+0.01}_{-0.01} \times 10^{-1}$	$1.0^{+0.01}_{-0.01} \times 10^{-1}$
$\geq 1$ jet with $p_{ m T} > 110{ m GeV}$ and $ \eta  < 2.4$	$8.2^{+0.13}_{-0.13} \times 10^{-2}$	$5.4^{+0.07}_{-0.07} \times 10^{-2}$	$5.3^{+0.07}_{-0.07} \times 10^{-2}$
==0 pairs of jets with $\Delta \phi_{\rm jet, jet} > 2.5$	$7.1^{+0.12}_{-0.12} \times 10^{-2}$	$4.7^{+0.07}_{-0.07} \times 10^{-2}$	$4.6^{+0.07}_{-0.07} \times 10^{-2}$
$ \Delta\phi({ m leading jet}, \vec{p}_{ m T}^{ m miss})  > 0.5$	$ \begin{vmatrix} 7.1_{-0.12}^{+0.12} \times 10^{-2} \\ 7.0_{-0.12}^{+0.12} \times 10^{-2} \\ 6.1_{-0.11}^{+0.11} \times 10^{-2} \end{vmatrix} $	$4.5^{+0.07}_{-0.07} \times 10^{-2}$	$4.5^{+0.07}_{-0.07} \times 10^{-2}$
$\geq 1 \text{ track with }  \eta  < 2.1$	$7.0^{+0.12}_{-0.12} \times 10^{-2}$	$4.5^{+0.07}_{-0.07} \times 10^{-2}$	$\begin{array}{c c} 4.5^{+0.07}_{-0.07} \times 10^{-2} \\ 4.1^{+0.06}_{-0.06} \times 10^{-2} \end{array}$
$\geq 1 \text{ track with } p_{\mathrm{T}} > 55 \mathrm{GeV}$	$6.1^{+0.11}_{-0.11} \times 10^{-2}$	$4.1^{+0.06}_{-0.06} \times 10^{-2}$	$4.1^{+0.06}_{-0.06} \times 10^{-2}$
$\geq 1$ track passing fiducial selections	$ \begin{array}{c} 7.0_{-0.12} \times 10 \\ 6.1_{-0.11}^{+0.11} \times 10^{-2} \\ 4.2_{-0.09}^{+0.09} \times 10^{-2} \\ \end{array} $	$\begin{vmatrix} 4.1_{-0.06}^{+0.06} \times 10^{-2} \\ 3.4_{-0.06}^{+0.06} \times 10^{-2} \end{vmatrix}$	$3.4^{+0.06}_{-0.06} \times 10^{-2}$
$\geq 1 \text{ track with } \geq 4 \text{ pixel hits}$	$ \begin{array}{c} 1.2_{-0.09} \times 10^{-2} \\ 2.9_{-0.08}^{+0.08} \times 10^{-2} \\ 2.9_{-0.08}^{+0.08} \times 10^{-2} \\ 2.5_{-0.07}^{+0.07} \times 10^{-2} \end{array} $	$\begin{array}{c} 3.7 - 0.06 \\ 2.7 + 0.05 + 10^{-2} \\ 1.9 + 0.04 + 10^{-2} \\ 1.9 + 0.04 + 10^{-2} \\ 1.9 + 0.04 + 10^{-2} \end{array}$	$\begin{array}{c c} 2.7^{+0.05}_{-0.05} \times 10^{-2} \\ 1.8^{+0.04}_{-0.04} \times 10^{-2} \end{array}$
$\geq 1$ track with no missing inner hits	$2.9^{+0.08}_{-0.08} \times 10^{-2}$	$1.9^{+0.04}_{-0.04} \times 10^{-2}$	$1.8^{+0.04}_{-0.04} \times 10^{-2}$
$\geq 1$ track with no missing middle hits	$2.5^{+0.07}_{-0.07} \times 10^{-2}$	$1.9^{+0.04}_{-0.04} \times 10^{-2}$	$\begin{array}{c} 2.7_{-0.05} \times 10^{-2} \\ 1.8_{-0.04}^{+0.04} \times 10^{-2} \\ 1.8_{-0.04}^{+0.04} \times 10^{-2} \\ 1.4_{-0.04}^{+0.04} \times 10^{-2} \end{array}$
$\geq 1$ track with relative track isolation $< 5\%$	$\  2.1^{+0.06}_{-0.06} \times 10^{-2} \ $	$1.3^{+0.04}_{-0.04} \times 10^{-2}$	$1.4^{+0.04}_{-0.04} \times 10^{-2}$
$\geq 1$ track with $ d_{ m xy}  < 0.02{ m cm}$	$2.1^{+0.06}_{-0.06} \times 10^{-2}$	$1.3^{+0.04}_{-0.04} \times 10^{-2}$	$1.4^{+0.04}_{-0.04} \times 10^{-2}$
$\geq 1$ track with $ d_z  < 0.5 \mathrm{cm}$	$2.1^{+0.06}_{-0.06} \times 10^{-2}$	$1.3^{+0.04}_{-0.04} \times 10^{-2}$	$1.4^{+0.04}_{-0.04} \times 10^{-2}$
$\geq 1 \text{ track with } \Delta R(\text{track, jet}) > 0.5$	$2.0^{+0.06}_{-0.06} \times 10^{-2}$	$1.3^{+0.04}_{-0.04} \times 10^{-2}$	$1.4^{+0.04}_{-0.04} \times 10^{-2}$
$\geq 1$ track with $\Delta R(\text{track}, \text{electron}) > 0.15$	$1.9^{+0.06}_{-0.06} \times 10^{-2}$	$1.12^{+0.04} \times 10^{-2}$	$1.4^{+0.04}_{-0.04} \times 10^{-2}$
$\geq 1 \text{ track with } \Delta R(\text{track}, \text{muon}) > 0.15$	$6.6^{+0.37}_{-0.37} \times 10^{-3}$	$7.3^{+0.28}_{-0.28} \times 10^{-3}$	$8.5^{+0.30}_{-0.30} \times 10^{-3}$
$\geq 1 \text{ track with } \Delta R(\text{track}, \tau_{\text{h}}) > 0.15$	$ \begin{vmatrix} 6.6_{-0.37}^{+0.37} \times 10^{-3} \\ 6.6_{-0.37}^{+0.37} \times 10^{-3} \\ 6.5_{-0.36}^{+0.36} \times 10^{-3} \end{vmatrix} $	$7.3^{+0.28}_{-0.28} \times 10^{-3}$	$\begin{array}{c} 8.5^{+0.30}_{-0.30} \times 10^{-3} \\ 8.5^{+0.30}_{-0.30} \times 10^{-3} \\ 8.5^{+0.30}_{-0.30} \times 10^{-3} \end{array}$
$\geq 1 \text{ track with } E_{\text{calo}} < 10 \text{GeV}$	$6.5^{+0.36}_{-0.36} \times 10^{-3}$	$7.3^{+0.28}_{-0.28} \times 10^{-3}$	$\begin{array}{c} 8.5^{+0.30}_{-0.30} \times 10^{-3} \\ 8.5^{+0.30}_{-0.13} \times 10^{-3} \\ 1.7^{+0.13}_{-0.13} \times 10^{-3} \\ 1.8^{+0.44}_{-0.44} \times 10^{-4} \end{array}$
$\geq 1$ track with $\geq 3$ missing outer hits	$1.9^{+0.20}_{-0.20} \times 10^{-3}$	$1.3^{+0.12}_{-0.12} \times 10^{-3}$	$1.7^{+0.13}_{-0.13} \times 10^{-3}$
$\geq 1$ track with number of tracker layers with measurement == 4	$3.7^{+0.86}_{-0.86} \times 10^{-4}$	$1.2^{+0.35}_{-0.35} \times 10^{-4}$	$1.8^{+0.44}_{-0.44} \times 10^{-4}$
$\geq 1$ track with number of tracker layers with measurement == 5	$\begin{array}{c} -0.36 \\ 6.5^{+0.36}_{-0.36} \times 10^{-3} \\ 1.9^{+0.20}_{-0.20} \times 10^{-3} \\ 3.7^{+0.86}_{-0.86} \times 10^{-4} \\ 2.4^{+0.71}_{-0.71} \times 10^{-4} \end{array}$	$\begin{array}{c} 1.2_{-0.04} \times 10 \\ 7.3_{-0.28}^{+0.28} \times 10^{-3} \\ 7.3_{-0.28}^{+0.28} \times 10^{-3} \\ 7.3_{-0.28}^{+0.28} \times 10^{-3} \\ 1.3_{-0.12}^{+0.12} \times 10^{-3} \\ 1.2_{-0.35}^{+0.35} \times 10^{-4} \\ 1.6_{-0.41}^{+0.41} \times 10^{-4} \\ 1.6_{-0.41}^{+0.11} \times 10^{-3} \end{array}$	$1.8_{-0.44}^{-0.144} \times 10^{-4}$ $2.3_{-0.50}^{+0.50} \times 10^{-4}$
$\geq 1$ track with number of tracker layers with measurement $\geq 6$	$1.3^{+0.16}_{-0.16} \times 10^{-3}$	$1.0^{+0.11}_{-0.11} \times 10^{-3}$	$1.3^{+0.12}_{-0.12} \times 10^{-3}$

Table 2: Cutflow comparison for 300 GeV, 1000 cm, region 2018A

	300 GeV, 1000 cm, region 2018B		
Cut	$\epsilon_i^{ m CMS}$	$\epsilon_i^{\rm sim},{ m MLM}$	$\epsilon_i^{\mathrm{sim}}$ , MLM, no pileup
total	$1.0^{+0.00}_{-0.00}$	$1.0^{+0.00}_{-0.00}$	$1.0^{+0.00}_{-0.00}$
trigger	$9.8^{+0.14}_{-0.14} \times 10^{-2}$	$ \begin{array}{c} 1.0^{+0.01}_{-0.01} \times 10^{-1} \\ 1.0^{+0.01}_{-0.01} \times 10^{-1} \\ 1.0^{+0.01}_{-0.01} \times 10^{-1} \end{array} $	$1.0^{+0.01} \times 10^{-1}$
passes $p_{\mathrm{T}}^{\mathrm{miss}}$ filters	$9.8^{+0.14}_{-0.14} \times 10^{-2}$	$1.0^{+0.01}_{-0.01} \times 10^{-1}$	$1.0^{+0.01}_{-0.01} \times 10^{-1}$
$p_{\mathrm{T}}^{\mathrm{miss}} > 120\mathrm{GeV}$	$0.5^{+0.14} \times 10^{-2}$	$ \begin{vmatrix} 1.0^{+0.01}_{-0.01} \times 10^{-1} \\ 5.4^{+0.07}_{-0.07} \times 10^{-2} \end{vmatrix} $	$\begin{array}{c} 1.0^{+0.01}_{-0.01} \times 10^{-1} \\ 5.3^{+0.07}_{-0.07} \times 10^{-2} \end{array}$
$\geq 1$ jet with $p_{ m T} > 110{ m GeV}$ and $ \eta  < 2.4$	$8.2^{+0.13}_{-0.13} \times 10^{-2}$	$5.4^{+0.07}_{-0.07} \times 10^{-2}$	$5.3^{+0.07}_{-0.07} \times 10^{-2}$
==0 pairs of jets with $\Delta \phi_{\rm jet, jet} > 2.5$	$7.1^{+0.12}_{-0.12} \times 10^{-2}$	$ 4.7^{+0.07}_{-0.07} \times 10^{-2}$	$4.6^{+0.07}_{-0.07} \times 10^{-2}$
$ \Delta\phi({ m leading\ jet},ar{p}_{ m T}^{ m miss}) >0.5$	$7.1^{+0.12}_{-0.12} \times 10^{-2}$	$4.5^{+0.07}_{-0.07} \times 10^{-2}$	$\begin{array}{c} 4.6^{+0.07}_{-0.07} \times 10^{-2} \\ 4.5^{+0.07}_{-0.07} \times 10^{-2} \end{array}$
$\geq 1 \text{ track with }  \eta  < 2.1$	$ 7.0^{+0.12}_{-0.12} \times 10^{-2} $	$4.5^{+0.07}_{-0.07} \times 10^{-2}$	$4.5^{+0.07}_{-0.07} \times 10^{-2}$
$\geq 1 \text{ track with } p_{\mathrm{T}} > 55 \mathrm{GeV}$	$6.1^{+0.11}_{-0.11} \times 10^{-2}$	$4.1^{+0.06}_{-0.06} \times 10^{-2}$	$4.1^{+0.06}_{-0.06} \times 10^{-2}$
$\geq 1$ track passing fiducial selections	$4.2^{+0.09}_{-0.09} \times 10^{-2}$	$3.4^{+0.06}_{-0.06} \times 10^{-2}$	$3.4^{+0.06}_{-0.06} \times 10^{-2}$
$\geq 1$ track with $\geq 4$ pixel hits	$2.9^{+0.08}_{-0.08} \times 10^{-2}$	$2.7^{+0.05}_{-0.05} \times 10^{-2}$	$2.7^{+0.05}_{-0.05} \times 10^{-2}$
$\geq 1$ track with no missing inner hits	$2.9^{+0.08}_{-0.08} \times 10^{-2}$	$1.9^{+0.04}_{-0.04} \times 10^{-2}$	$1.8^{+0.04}_{-0.04} \times 10^{-2}$
$\geq 1$ track with no missing middle hits	$\begin{bmatrix} 2.5 - 0.08 \times 10 \\ 2.5 + 0.07 \times 10^{-2} \\ 2.1 + 0.07 \times 10^{-2} \\ 2.1 + 0.07 \times 10^{-2} \end{bmatrix}$	$\begin{array}{c} 1.9^{+0.04}_{-0.04} \times 10^{-2} \\ 1.3^{+0.04}_{-0.04} \times 10^{-2} \\ 1.3^{+0.04}_{-0.04} \times 10^{-2} \\ 1.3^{+0.04}_{-0.04} \times 10^{-2} \end{array}$	$1.8^{+0.04}_{-0.04} \times 10^{-2} \\ 1.4^{+0.04}_{-0.04} \times 10^{-2}$
$\geq 1$ track with relative track isolation $< 5\%$	$ \begin{array}{c c} 2.1^{+0.07}_{-0.07} \times 10^{-2} \\ 2.1^{+0.07}_{-0.07} \times 10^{-2} \\ 2.1^{+0.07}_{-0.07} \times 10^{-2} \end{array} $	$1.3^{+0.04}_{-0.04} \times 10^{-2}$	$1.4^{+0.04}_{-0.04} \times 10^{-2}$
$\geq 1 \; { m track \; with } \;  d_{ m xy}  < 0.02  { m cm}$	$2.1^{+0.07}_{-0.07} \times 10^{-2}$	$1.3^{+0.04}_{-0.04} \times 10^{-2}$	$1.4^{+0.04}_{-0.04} \times 10^{-2}$
$\geq 1 \text{ track with }  d_z  < 0.5 \mathrm{cm}$	$ 2.1^{+0.07}_{-0.07} \times 10^{-2}$	$1.3^{+0.04}_{-0.04} \times 10^{-2}$	$1.4^{+0.04}_{-0.04} \times 10^{-2}$
$\geq 1 \text{ track with } \Delta R(\text{track, jet}) > 0.5$	$2.1^{+0.06}_{-0.06} \times 10^{-2}$	$1.3^{+0.04}_{-0.04} \times 10^{-2}$	$1.4^{+0.04}_{-0.04} \times 10^{-2}$
$\geq 1 \text{ track with } \Delta R(\text{track}, \text{electron}) > 0.15$	$1.9^{+0.06}_{-0.06} \times 10^{-2}$	$1.2^{+0.04}_{-0.04} \times 10^{-2}$	$1.4^{+0.04}_{-0.04} \times 10^{-2} \\ 8.5^{+0.30}_{-0.30} \times 10^{-3}$
$\geq 1 \text{ track with } \Delta R(\text{track}, \text{muon}) > 0.15$	$ \begin{vmatrix} 1.9 + 0.06 \\ -0.06 \\ -0.06 \\ 6.6 + 0.37 \\ -0.37 \\ 10^{-3} \end{vmatrix} \times 10^{-2} $	$\begin{array}{c} 1.3^{+0.04}_{-0.04} \times 10^{-2} \\ 1.3^{+0.04}_{-0.04} \times 10^{-2} \\ 1.2^{+0.04}_{-0.04} \times 10^{-2} \\ 7.3^{+0.28}_{-0.28} \times 10^{-3} \end{array}$	$8.5^{+0.30}_{-0.30} \times 10^{-3}$
$\geq 1 \text{ track with } \Delta R(\text{track}, \tau_{\text{h}}) > 0.15$	$6.6^{+0.37}_{-0.37} \times 10^{-3}$	$ 7.3^{+0.26}_{-0.28} \times 10^{-3} $	$8.5^{+0.30}_{-0.30} \times 10^{-3}$
$\geq 1 \text{ track with } E_{\mathrm{calo}} < 10  \mathrm{GeV}$	$6.5^{+0.36}_{-0.36} \times 10^{-3}$	$7.3^{+0.28}_{-0.28} \times 10^{-3}$	$8.5^{+0.30}_{-0.30} \times 10^{-3}$
$\geq 1$ track with $\geq 3$ missing outer hits	$2.0^{+0.20}_{-0.20} \times 10^{-3}$	$1.3^{+0.12}_{-0.12} \times 10^{-3}$	$1.7^{+0.13}_{-0.13} \times 10^{-3}$
$\phi(p_{\rm T}^{\rm miss}) < -1.6 \text{ or } \phi(p_{\rm T}^{\rm miss}) > -0.6$	$1.6^{+0.18}_{-0.18} \times 10^{-3}$	$1.1^{+0.11}_{-0.11} \times 10^{-3}$	$1.4^{+0.12}_{-0.12} \times 10^{-3}$
$\geq 1$ track with number of tracker layers with measurement == 4	$3.3^{+0.81}_{-0.81} \times 10^{-4}$	$1.1^{+0.34}_{-0.34} \times 10^{-4}$	$1.4^{+0.38}_{-0.38} \times 10^{-4}$
$\geq 1$ track with number of tracker layers with measurement == 5	$2.0^{+0.64}_{-0.64} \times 10^{-4}$	$1.3^{+0.37}_{-0.37} \times 10^{-4}$	$2.1^{+0.47}_{-0.47} \times 10^{-4}$
$\geq 1$ track with number of tracker layers with measurement $\geq 6$	$\begin{array}{ c c c c c }\hline 2.0^{+0.64}_{-0.64} \times 10^{-4} \\ 1.1^{+0.15}_{-0.15} \times 10^{-3} \\ \hline \end{array}$	$\begin{array}{c} -0.11 \\ 1.1^{+0.34}_{-0.34} \times 10^{-4} \\ 1.3^{+0.37}_{-0.37} \times 10^{-4} \\ 8.5^{+0.95}_{-0.95} \times 10^{-4} \end{array}$	$\begin{array}{c} -0.12 \\ 1.4 + 0.38 \\ -0.38 \times 10^{-4} \\ 2.1 + 0.47 \times 10^{-4} \\ 1.0 + 0.10 \\ -0.10 \times 10^{-3} \end{array}$

Table 3: Cutflow comparison for 300 GeV, 1000 cm, region 2018B