	300 GeV, 10 cm, region 2017			
Cut	$\epsilon_i^{ ext{CMS}}$	$\epsilon_i^{\rm sim}$, HEPMC	$\epsilon_i^{\rm sim}$, CKKWL	$\epsilon_i^{\rm sim},{ m MLM}$
total	$1.0^{+0.00}_{-0.00}$	$1.0^{+0.00}_{-0.00}$	$1.0^{+0.00}_{-0.00}$	$1.0^{+0.00}_{-0.00}$
trigger	$1.3^{+0.02}_{-0.02} \times 10^{-1}$	$9.2^{+0.09}_{-0.09} \times 10^{-2}$	$1.0^{+0.01}_{-0.01} \times 10^{-1}$	$8.2^{+0.09}_{-0.09} \times 10^{-2}$
passes $p_{\mathrm{T}}^{\mathrm{miss}}$ filters	$1.3^{+0.02}_{-0.02} \times 10^{-1}$	$9.2^{+0.09}_{-0.09} \times 10^{-2}$	$1.0^{+0.01}_{-0.01} \times 10^{-1}$	$8.2^{+0.09}_{-0.09} \times 10^{-2}$
$p_{\mathrm{T}}^{\mathrm{miss}} > 120\mathrm{GeV}$	$1.3^{+0.02}_{-0.02} \times 10^{-1}$	$9.2^{+0.09}_{-0.09} \times 10^{-2}$	$1.0^{+0.01}_{-0.01} \times 10^{-1}$	$8.2^{+0.09}_{-0.09} \times 10^{-2}$
≥ 1 jet with $p_{\mathrm{T}} > 110\mathrm{GeV}$ and $ \eta < 2.4$	$8.0^{+0.13}_{-0.13} \times 10^{-2}$	$7.5^{+0.09}_{-0.09} \times 10^{-2}$	$6.8^{+0.08}_{-0.08} \times 10^{-2}$	$5.5^{+0.07}_{-0.07} \times 10^{-2}$
==0 pairs of jets with $\Delta \phi_{\rm jet,\ jet} > 2.5$	$7.0^{+0.12}_{-0.12} \times 10^{-2}$	$6.3^{+0.08}_{-0.08} \times 10^{-2}$	$5.8^{+0.08}_{-0.08} \times 10^{-2}$	$4.8^{+0.07}_{-0.07} \times 10^{-2}$
$ \Delta\phi({ m leading\ jet}, {\it p}_{ m T}^{ m miss}) > 0.5$	$7.0^{+0.12}_{-0.12} \times 10^{-2}$	$6.3^{+0.08}_{-0.08} \times 10^{-2}$	$5.8^{+0.08}_{-0.08} \times 10^{-2}$	$4.8^{+0.07}_{-0.07} \times 10^{-2}$
$\geq 1 \text{ track with } \eta < 2.1$	$\begin{array}{c c} 6.8^{+0.12}_{-0.12} \times 10^{-2} \\ 6.8^{+0.12}_{-0.12} \times 10^{-2} \end{array}$	$6.3^{+0.08}_{-0.08} \times 10^{-2}$	$5.8^{+0.08}_{-0.08} \times 10^{-2}$	$4.8^{+0.07}_{-0.07} \times 10^{-2}$
$\geq 1 \text{ track with } p_{\mathrm{T}} > 55 \mathrm{GeV}$	$3.2^{+0.08}_{-0.08} \times 10^{-2}$	$3.0^{+0.06}_{-0.06} \times 10^{-2}$	$5.4^{+0.07}_{-0.07} \times 10^{-2}$	$4.5^{+0.07}_{-0.07} \times 10^{-2}$
≥ 1 track passing fiducial selections	$2.2^{+0.07}_{-0.07} \times 10^{-2}$	$2.3^{+0.05}_{-0.05} \times 10^{-2}$	$4.5^{+0.07}_{-0.07} \times 10^{-2}$	$3.7^{+0.06}_{-0.06} \times 10^{-2}$
≥ 1 track with ≥ 4 pixel hits	$1.3^{+0.05}_{-0.05} \times 10^{-2}$	$1.7^{+0.04}_{-0.04} \times 10^{-2}$	$1.8^{+0.04}_{-0.04} \times 10^{-2}$	$1.4^{+0.04}_{-0.04} \times 10^{-2}$
≥ 1 track with no missing inner hits	$1.3^{+0.05}_{-0.05} \times 10^{-2}$	$1.3^{+0.04}_{-0.04} \times 10^{-2}$	$1.4^{+0.04}_{-0.04} \times 10^{-2}$	$1.1^{+0.03}_{-0.03} \times 10^{-2}$
≥ 1 track with no missing middle hits	$1.2^{+0.05}_{-0.05} \times 10^{-2}$	$1.3^{+0.04}_{-0.04} \times 10^{-2}$	$1.4^{+0.04}_{-0.04} \times 10^{-2}$	$1.1^{+0.03}_{-0.03} \times 10^{-2}$
≥ 1 track with relative track isolation $< 5\%$	$5.8^{+0.34}_{-0.34} \times 10^{-3}$	$6.2^{+0.26}_{-0.26} \times 10^{-3}$	$5.5^{+0.24}_{-0.24} \times 10^{-3}$	$4.4^{+0.22}_{-0.22} \times 10^{-3}$
$\geq 1 \text{ track with } d_{xy} < 0.02 \text{cm}$	$5.7^{+0.34}_{-0.34} \times 10^{-3}$	$6.2^{+0.26}_{-0.26} \times 10^{-3}$	$5.5^{+0.24}_{-0.24} \times 10^{-3}$	$4.4^{+0.22}_{-0.22} \times 10^{-3}$
$\geq 1 \text{ track with } d_z < 0.5 \text{cm}$	$5.7^{+0.34}_{-0.34} \times 10^{-3}$	$6.2^{+0.26}_{-0.26} \times 10^{-3}$	$5.5^{+0.24}_{-0.24} \times 10^{-3}$	$4.4^{+0.22}_{-0.22} \times 10^{-3}$
$\geq 1 \text{ track with } \Delta R(\text{track, jet}) > 0.5$	$5.5^{+0.33}_{-0.33} \times 10^{-3}$	$6.1^{+0.25}_{-0.25} \times 10^{-3}$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{vmatrix} 1.1_{-0.22} \times 10 \\ 4.3_{-0.21}^{+0.21} \times 10^{-3} \end{vmatrix}$
≥ 1 track with $\Delta R(\text{track}, \text{electron}) > 0.15$	$5.4^{+0.33}_{-0.33} \times 10^{-3}$	$\begin{array}{c} 6.2_{-0.26} \times 10 \\ 6.1_{-0.25}^{+0.25} \times 10^{-3} \\ 6.1_{-0.25}^{+0.25} \times 10^{-3} \end{array}$	$\begin{bmatrix} 5.5 + 0.24 \\ 5.5 - 0.24 \\ 5.5 + 0.24 \\ 5.0 - 0.24 \\ 5.0 + 0.24 \end{bmatrix} \times 10^{-3}$	$ 4.3^{+0.21}_{-0.21} \times 10^{-3} $
≥ 1 track with $\Delta R(\text{track}, \text{muon}) > 0.15$	$5.4^{+0.33}_{-0.33} \times 10^{-3}$	$16.1^{+0.25}_{-0.55} \times 10^{-3}$	$ 5.5^{+0.24}_{-0.24} \times 10^{-6}$	$4.3^{+0.21}_{-0.21} \times 10^{-3}$
$\geq 1 \text{ track with } \Delta R(\text{track}, \tau_{\text{h}}) > 0.15$	$5.4^{+0.33}_{-0.33} \times 10^{-3}$	$\begin{array}{c} 6.1_{-0.25}^{+0.25} \times 10^{-3} \\ 6.1_{-0.25}^{+0.25} \times 10^{-3} \end{array}$	$\begin{bmatrix} 5.5 \\ -0.24 \\ 5.5 \\ -0.24 $	$4.3^{+0.21}_{-0.21} \times 10^{-3}$
$\geq 1 \text{ track with } E_{ m calo} < 10 { m GeV}$	$5.3^{+0.33}_{-0.33} \times 10^{-3}$	$\begin{array}{c c} 6.1_{-0.25}^{+0.25} \times 10^{-3} \\ 6.1_{-0.25}^{+0.25} \times 10^{-3} \end{array}$	$5.5^{+0.24}_{-0.24} \times 10^{-3}$	$4.3^{+0.21}_{-0.21} \times 10^{-3}$
≥ 1 track with ≥ 3 missing outer hits	$\begin{array}{c} 3.3_{-0.33} \times 10^{-3} \\ 5.2_{-0.33}^{+0.33} \times 10^{-3} \end{array}$	$\begin{array}{c} 0.1_{-0.25}^{+0.25} \times 10^{-3} \\ 5.9_{-0.25}^{+0.25} \times 10^{-3} \end{array}$	$ 5.4_{-0.24} \times 10^{-3}$	$4.2^{+0.21}_{-0.21} \times 10^{-3}$
≥ 1 track 4 layers	$3.0^{+0.25}_{-0.25} \times 10^{-3}$	$2.6^{+0.17}_{-0.17} \times 10^{-3}$	$2.3^{+0.16}_{-0.16} \times 10^{-3}$	$1.8^{+0.14}_{-0.14} \times 10^{-3}$
≥ 1 track 5 layers	$1.2^{+0.15}_{-0.15} \times 10^{-3}$	$1.3^{+0.12}_{-0.12} \times 10^{-3}$	$1.2^{+0.12}_{-0.12} \times 10^{-3}$	$1.1^{+0.11}_{-0.11} \times 10^{-3}$
≥ 1 track with ≥ 6 layers	$1.0^{+0.15}_{-0.15} \times 10^{-3}$	$1.9^{+0.14}_{-0.14} \times 10^{-3}$	$1.7^{+0.14}_{-0.14} \times 10^{-3}$	$1.2^{+0.11}_{-0.11} \times 10^{-3}$

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

	300 GeV, 10 cm, region 2018A				
Cut	$\epsilon_i^{ ext{CMS}}$	$\epsilon_i^{\mathrm{sim}}$, HEPMC	$\epsilon_i^{\rm sim}$, CKKWL	$\epsilon_i^{\rm sim},{ m MLM}$	
total	$1.0^{+0.00}_{-0.00}$	$1.0^{+0.00}_{-0.00}$	$1.0^{+0.00}_{-0.00}$	$1.0^{+0.00}_{-0.00}$	
trigger	$9.1^{+0.13}_{-0.13} \times 10^{-2}$	$9.2^{+0.09}_{-0.09} \times 10^{-2}$	$1.0^{+0.01}_{-0.01} \times 10^{-1}$	$8.2^{+0.09}_{-0.09} \times 10^{-2}$	
passes $p_{\mathrm{T}}^{\mathrm{miss}}$ filters	$9.1^{+0.13}_{-0.13} \times 10^{-2}$	$9.2^{+0.09}_{-0.09} \times 10^{-2}$	$1.0^{+0.01}_{-0.01} \times 10^{-1}$	$\mid 8.2^{+0.09}_{-0.09} \times 10^{-2} \mid$	
$p_{\mathrm{T}}^{\mathrm{miss}} > 120\mathrm{GeV}$	$8.9^{+0.13}_{-0.13} \times 10^{-2}$	$9.2^{+0.09}_{-0.09} \times 10^{-2}$	$1.0^{+0.01}_{-0.01} \times 10^{-1}$	$8.2^{+0.09}_{-0.09} \times 10^{-2}$	
≥ 1 jet with $p_{\rm T} > 110{ m GeV}$ and $ \eta < 2.4$	$8.0^{+0.13}_{-0.13} \times 10^{-2}$	$7.5^{+0.09}_{-0.09} \times 10^{-2}$	$6.8^{+0.08}_{-0.08} \times 10^{-2}$	$5.5^{+0.07}_{-0.07} \times 10^{-2}$	
==0 pairs of jets with $\Delta \phi_{\rm jet, \ jet} > 2.5$	$7.0^{+0.12}_{-0.12} \times 10^{-2}$	$6.3^{+0.08}_{-0.08} \times 10^{-2}$	$5.8^{+0.08}_{-0.08} \times 10^{-2}$	$4.8^{+0.07}_{-0.07} \times 10^{-2}$	
$ \Delta\phi({ m leading jet}, \vec{p}_{ m T}^{ m miss}) > 0.5$	$7.0^{+0.12}_{-0.12} \times 10^{-2}$	$6.3^{+0.08}_{-0.08} \times 10^{-2}$	$5.8^{+0.08}_{-0.08} \times 10^{-2}$	$4.8^{+0.07}_{-0.07} \times 10^{-2}$	
$\geq 1 \text{ track with } \eta < 2.1$	$\begin{array}{c c} 1.0_{-0.12} \times 10 \\ 6.8_{-0.12}^{+0.12} \times 10^{-2} \end{array}$	$6.3^{+0.08}_{-0.08} \times 10^{-2}$	$5.8^{+0.08}_{-0.08} \times 10^{-2}$	$4.8^{+0.07}_{-0.07} \times 10^{-2}$	
$\geq 1 \text{ track with } p_{\mathrm{T}} > 55 \mathrm{GeV}$	$13.2^{+0.08}_{-0.08} \times 10^{-2}$	$3.0^{+0.06}_{-0.06} \times 10^{-2}$	$ 5.4^{+0.07}_{-0.07} \times 10^{-2} $	$4.5^{+0.07}_{-0.07} \times 10^{-2}$	
≥ 1 track passing fiducial selections	$2.0^{+0.06}_{-0.06} \times 10^{-2}$	$2.3^{+0.05}_{-0.05} \times 10^{-2}$	$4.5^{+0.07}_{-0.07} \times 10^{-2}$	$3.7^{+0.06}_{-0.06} \times 10^{-2}$	
≥ 1 track with ≥ 4 pixel hits	$1.1^{+0.05}_{-0.05} \times 10^{-2}$	$1.7^{+0.04}_{-0.04} \times 10^{-2}$	$1.8^{+0.04}_{-0.04} \times 10^{-2}$	$1.4^{+0.04}_{-0.04} \times 10^{-2}$	
≥ 1 track with no missing inner hits	$1.1^{+0.05}_{-0.05} \times 10^{-2}$	$1.3^{+0.04}_{-0.04} \times 10^{-2}$	$1.4^{+0.04}_{-0.04} \times 10^{-2}$	$1.1^{+0.03}_{-0.03} \times 10^{-2}$	
≥ 1 track with no missing middle hits	$1.0^{+0.05}_{-0.05} \times 10^{-2}$	$1.3^{+0.04}_{-0.04} \times 10^{-2}$	$1.4^{+0.04}_{-0.04} \times 10^{-2}$	$1.1^{+0.03}_{-0.03} \times 10^{-2}$	
≥ 1 track with relative track isolation $< 5\%$	$5.1^{+0.32}_{-0.32} \times 10^{-3}$	$6.2^{+0.26}_{-0.26} \times 10^{-3}$	$5.5^{+0.24}_{-0.24} \times 10^{-3}$	$4.4^{+0.22}_{-0.22} \times 10^{-3}$	
$\geq 1 \text{ track with } d_{xy} < 0.02 \text{cm}$	$5.1^{+0.32}_{-0.32} \times 10^{-3}$	$6.2^{+0.26}_{-0.26} \times 10^{-3}$	$5.5^{+0.24}_{-0.24} \times 10^{-3}$	$4.4^{+0.22}_{-0.22} \times 10^{-3}$	
$\geq 1 \text{ track with } d_z < 0.5 \text{ cm}$	$5.1^{+0.32}_{-0.32} \times 10^{-3}$	$6.2^{+0.26}_{-0.26} \times 10^{-3}$	$5.5^{+0.24}_{-0.24} \times 10^{-3}$	$4.4^{+0.22}_{-0.22} \times 10^{-3}$	
$\geq 1 \text{ track with } \Delta R(\text{track, jet}) > 0.5$	$\begin{array}{c c} 5.0^{+0.32}_{-0.32} \times 10^{-3} \\ 5.0^{+0.32}_{-0.32} \times 10^{-3} \end{array}$	$6.1^{+0.25}_{-0.25} \times 10^{-3}$	$5.5^{+0.24}_{-0.24} \times 10^{-3}$	$\begin{vmatrix} 1.1_{-0.22} \times 10 \\ 4.3_{-0.21}^{+0.21} \times 10^{-3} \end{vmatrix}$	
$\geq 1 \text{ track with } \Delta R(\text{track}, \text{electron}) > 0.15$	$14.0^{+0.31} \times 10^{-3}$	$6.1^{+0.25}_{-0.25} \times 10^{-3}$	$5.5^{+0.24}_{-0.24} \times 10^{-3}$	$4.3^{+0.21}_{-0.21} \times 10^{-3}$	
$\geq 1 \text{ track with } \Delta R(\text{track, muon}) > 0.15$	$\begin{vmatrix} 4.9^{+0.31}_{-0.31} \times 10 \\ 4.9^{+0.31}_{-0.31} \times 10^{-3} \end{vmatrix}$	$\begin{array}{c} 6.1_{-0.25}^{+0.25} \times 10^{-3} \\ 6.1_{-0.25}^{+0.25} \times 10^{-3} \\ 6.1_{-0.25}^{+0.25} \times 10^{-3} \\ 6.1_{-0.25}^{+0.25} \times 10^{-3} \end{array}$	$ \begin{vmatrix} 5.5_{-0.24}^{+0.24} \times 10^{-3} \\ 5.5_{-0.24}^{+0.24} \times 10^{-3} \end{vmatrix} $	$4.3^{+0.21}_{-0.21} \times 10^{-3}$	
$\geq 1 \text{ track with } \Delta R(\text{track}, \tau_{\text{h}}) > 0.15$	$4.9^{+0.31}_{-0.31} \times 10^{-3}$	0.1 0.25 \ 10	0.0_n o/ v IO	$4.3^{+0.21}_{-0.21} \times 10^{-3}$	
$\geq 1 \text{ track with } E_{ m calo} < 10 { m GeV}$	$\begin{array}{c} 4.3_{-0.31} \times 10 \\ 4.9_{-0.31}^{+0.31} \times 10^{-3} \\ 4.8_{-0.31}^{+0.31} \times 10^{-3} \\ 4.8_{-0.31}^{+0.31} \times 10^{-3} \end{array}$	$1 c 1 \pm 0.25 \times 10 - 3$	$ \begin{vmatrix} 5.5 + 0.24 \\ -0.24 \\ 5.4 + 0.24 \\ -0.24 \\ \times 10^{-3} \end{vmatrix} $	$\begin{vmatrix} 4.3_{-0.21}^{+0.21} \times 10^{-3} \\ 4.2_{-0.21}^{+0.21} \times 10^{-3} \end{vmatrix}$	
≥ 1 track with ≥ 3 missing outer hits	$4.8^{+0.31}_{-0.31} \times 10^{-3}$	$5.9^{+0.25}_{-0.25} \times 10^{-3}$ $5.9^{+0.25}_{-0.25} \times 10^{-3}$	$5.4^{+0.24}_{-0.24} \times 10^{-3}$	$4.2^{+0.21}_{-0.21} \times 10^{-3}$	
≥ 1 track 4 layers	$2.6^{+0.23}_{-0.23} \times 10^{-3}$	$2.5^{+0.16}_{-0.16} \times 10^{-3}$	$2.3^{+0.16}_{-0.16} \times 10^{-3}$	$1.9^{+0.14}_{-0.14} \times 10^{-3}$	
≥ 1 track 5 layers	$1.1^{+0.15}_{-0.15} \times 10^{-3}$	$1.3^{+0.12}_{-0.12} \times 10^{-3}$	$1.2^{+0.12}_{-0.12} \times 10^{-3}$	$1.1^{+0.11}_{-0.11} \times 10^{-3}$	
≥ 1 track with ≥ 6 layers	$1.1^{+0.15}_{-0.15} \times 10^{-3}$	$1.9^{+0.14}_{-0.14} \times 10^{-3}$	$1.8^{+0.14}_{-0.14} \times 10^{-3}$	$1.2^{+0.11}_{-0.11} \times 10^{-3}$	

Table 2: Cutflow comparison for $300~{\rm GeV},\,10~{\rm cm},\,{\rm region}~2018{\rm A}$

	300 GeV, 10 cm, region 2018B				
Cut	$\epsilon_i^{ ext{CMS}}$	$\epsilon_i^{\mathrm{sim}}, \mathrm{HEPMC}$	$\epsilon_i^{ m sim}, { m CKKWL}$	$\epsilon_i^{ m sim},{ m MLM}$	
total	$1.0^{+0.00}_{-0.00}$	$1.0^{+0.00}_{-0.00}$	$1.0^{+0.00}_{-0.00}$	$1.0^{+0.00}_{-0.00}$	
trigger	$9.1^{+0.14}_{-0.14} \times 10^{-2}$	$9.2^{+0.09} \times 10^{-2}$	$1.0^{+0.01}_{-0.01} \times 10^{-1}$	$8.2^{+0.09}_{-0.09} \times 10^{-2}$	
passes $p_{\mathrm{T}}^{\mathrm{miss}}$ filters	$0.1^{+0.14} \times 10^{-2}$	$9.2^{+0.09}_{-0.09} \times 10^{-2}$	$1.0^{+0.01} \times 10^{-1}$	$8.2^{+0.09}_{-0.09} \times 10^{-2}$	
$p_{\mathrm{T}}^{\mathrm{miss}} > 120 \mathrm{GeV}$	$8.9^{+0.13}_{-0.13} \times 10^{-2}$	$9.2^{+0.09}_{-0.09} \times 10^{-2}$	10+0.01 10-1	$8.2^{+0.09}_{-0.09} \times 10^{-2}$	
≥ 1 jet with $p_{\mathrm{T}} > 110\mathrm{GeV}$ and $ \eta < 2.4$	$8.0^{+0.13}_{-0.13} \times 10^{-2}$	$7.5^{+0.09}_{-0.09} \times 10^{-2}$	$6.8^{+0.08}_{-0.08} \times 10^{-2}$	$5.5^{+0.07}_{-0.07} \times 10^{-2}$	
==0 pairs of jets with $\Delta \phi_{\rm jet, jet} > 2.5$	$7.0^{+0.12}_{-0.12} \times 10^{-2}$	$6.3^{+0.08}_{-0.08} \times 10^{-2}$	$5.8^{+0.08}_{-0.08} \times 10^{-2}$	$4.8^{+0.07}_{-0.07} \times 10^{-2}$	
$ \Delta\phi({ m leading\ jet},ar{p}_{ m T}^{ m miss}) >0.5$	$7.0^{+0.12}_{-0.12} \times 10^{-2}$	$6.3^{+0.08}_{-0.08} \times 10^{-2}$	$5.8^{+0.08}_{-0.08} \times 10^{-2}$	$4.8^{+0.07}_{-0.07} \times 10^{-2}$	
≥ 1 track with $ \eta < 2.1$	$6.8^{+0.12}_{-0.12} \times 10^{-2}$	$6.3^{+0.08}_{-0.08} \times 10^{-2}$	$5.8^{+0.08}_{-0.08} \times 10^{-2}$	$4.8^{+0.07}_{-0.07} \times 10^{-2}$	
$\geq 1 \text{ track with } p_{\mathrm{T}} > 55 \mathrm{GeV}$	$3.2^{+0.08}_{-0.08} \times 10^{-2}$	$3.0^{+0.06}_{-0.06} \times 10^{-2}$	$5.4^{+0.07}_{-0.07} \times 10^{-2}$	$4.5^{+0.07}_{-0.07} \times 10^{-2}$	
≥ 1 track passing fiducial selections	$2.1^{+0.06}_{-0.06} \times 10^{-2}$	$2.3^{+0.05}_{-0.05} \times 10^{-2}$	$4.5^{+0.07}_{-0.07} \times 10^{-2}$	$3.7^{+0.06}_{-0.06} \times 10^{-2}$	
≥ 1 track with ≥ 4 pixel hits	$1.1^{+0.05}_{-0.05} \times 10^{-2}$	$1.7^{+0.04}_{-0.04} \times 10^{-2}$	$1.8^{+0.04}_{-0.04} \times 10^{-2}$	$1.4^{+0.04} \times 10^{-2}$	
≥ 1 track with no missing inner hits	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$1.3^{+0.04}_{-0.04} \times 10^{-2}$	$1.4^{+0.04}_{-0.04} \times 10^{-2}$	$1.1^{+0.03}_{-0.03} \times 10^{-2}$	
≥ 1 track with no missing middle hits	$1.0^{+0.05}_{-0.05} \times 10^{-2}$	$1.3^{+0.04}_{-0.04} \times 10^{-2}$	$1.4^{+0.04}_{-0.04} \times 10^{-2}$	$1.1^{+0.03}_{-0.03} \times 10^{-2}$	
≥ 1 track with relative track isolation $< 5\%$	$5.1^{+0.32}_{-0.32} \times 10^{-3}$	$6.2^{+0.26}_{-0.26} \times 10^{-3}$	$5.5^{+0.24}_{-0.24} \times 10^{-3}$ $5.5^{+0.24}_{-0.24} \times 10^{-3}$ $5.5^{+0.24}_{-0.24} \times 10^{-3}$	$\begin{array}{c c} & 4.4^{+0.22}_{-0.22} \times 10^{-3} \\ & 4.4^{+0.22}_{-0.22} \times 10^{-3} \end{array}$	
$\geq 1 \text{ track with } d_{xy} < 0.02 \text{cm}$	$5.1^{+0.32}_{-0.32} \times 10^{-3}$	$6.2^{+0.26}_{-0.26} \times 10^{-3}$	$5.5^{+0.24}_{-0.24} \times 10^{-3}$	$4.4^{+0.22}_{-0.22} \times 10^{-3}$	
≥ 1 track with $ d_z < 0.5 \mathrm{cm}$	$5.1^{+0.32}_{-0.32} \times 10^{-3}$	$6.2^{+0.26}_{-0.26} \times 10^{-3}$	$0.0_{-0.24} \wedge 10$	1 4.4-0.22 ^ 10	
≥ 1 track with $\Delta R(\text{track, jet}) > 0.5$	$5.0^{+0.32}_{-0.22} \times 10^{-3}$	$6.1^{+0.25}_{-0.25} \times 10^{-3}$	$5.5^{+0.24}_{-0.24} \times 10^{-3}$	$4.3^{+0.\overline{21}}_{-0.21} \times 10^{-3}$	
≥ 1 track with $\Delta R(\text{track}, \text{electron}) > 0.15$	$4.9^{+0.31}_{-0.31} \times 10^{-3}$	$6.1^{+0.25}_{-0.25} \times 10^{-3}$	$5.5^{+0.24}_{-0.24} \times 10^{-3}$	$4.3^{+0.21}_{-0.21} \times 10^{-3}$	
$\geq 1 \text{ track with } \Delta R(\text{track}, \text{muon}) > 0.15$	$4.8^{+0.31}_{-0.31} \times 10^{-3}$	$6.1^{+0.25}_{-0.25} \times 10^{-3}$	$5.5^{+0.24}_{-0.24} \times 10^{-3}$	$4.3^{+0.21}_{-0.21} \times 10^{-3}$	
≥ 1 track with $\Delta R({ m track}, au_{ m h}) > 0.15$	$4.8^{+0.31}_{-0.31} \times 10^{-3}$	$6.1^{+0.25}_{-0.25} \times 10^{-3}$	$5.5^{+0.24}_{-0.24} \times 10^{-3}$	$4.3^{+0.21}_{-0.21} \times 10^{-3}$	
$\geq 1 \text{ track with } E_{\text{calo}} < 10 \text{GeV}$	$4.8^{+0.31}_{-0.31} \times 10^{-3}$	$6.1^{+0.25}_{-0.25} \times 10^{-3}$	$5.5^{+0.24}_{-0.24} \times 10^{-3}$	$4.3^{+0.21}_{-0.21} \times 10^{-3}$	
≥ 1 track with ≥ 3 missing outer hits	$4.7^{+0.31}_{-0.31} \times 10^{-3}$	$5.9^{+0.25} \times 10^{-3}$	$5.4^{+0.24}_{-0.24} \times 10^{-3}$	$4.2^{+0.21}_{-0.21} \times 10^{-3}$	
$\phi(p_{ m T}^{ m miss}) < -1.6 \ { m or} \ \phi(p_{ m T}^{ m miss}) > -0.6$	10-10.28 10-3	1.40 ± 0.23 $1.10-3$	$4.6^{+0.22}_{-0.22} \times 10^{-3}$	$3.5^{-0.19}_{-0.19} \times 10^{-3}$	
≥ 1 track 4 layers	$2.2^{+0.21}_{-0.21} \times 10^{-3}$	$2.1^{+0.15}_{-0.15} \times 10^{-3}$	$1.9^{+0.14}_{-0.14} \times 10^{-3}$	$1.5^{+0.13}_{-0.13} \times 10^{-3}$	
≥ 1 track 5 layers	$9.4^{+1.39}_{-1.39} \times 10^{-4}$	$1.1^{+0.11}_{-0.11} \times 10^{-3}$	$1.0^{+0.11}_{-0.11} \times 10^{-3}$	$\begin{array}{c} -0.19 \times 10^{-3} \\ 3.5^{+0.19}_{-0.19} \times 10^{-3} \\ 1.5^{+0.13}_{-0.13} \times 10^{-3} \\ 9.1^{+0.98}_{-0.98} \times 10^{-4} \\ 1.0.2^{+1.03}_{-0.13} & 1.0^{-4} \end{array}$	
≥ 1 track with ≥ 6 layers	$9.2^{+1.34}_{-1.34} \times 10^{-4}$	$1.5^{+0.12}_{-0.12} \times 10^{-3}$	$1.5^{+0.13}_{-0.13} \times 10^{-3}$	$10.0^{+1.03}_{-1.03} \times 10^{-4}$	

Table 3: Cutflow comparison for 300 GeV, 10 cm, region 2018B