

Benchmark	Channel	Signal Region			Obs.
		Assoc. Prod.	Pair Prod.	Background	
100% $\Phi \rightarrow ee$	$l^\pm l^\pm l^\mp$	$(1.54 \pm 0.26) \times 10^1$	$(3.87 \pm 0.68) \times 10^0$	$(2.02 \pm 0.83) \times 10^0$	2
	$l^\pm l^\pm \tau^\mp$	$(2.28 \pm 0.41) \times 10^0$	—	$(3.48 \pm 2.10) \times 10^{-1}$	0
	$l^+ l^+ l^- l^-$	—	$(6.81 \pm 1.32) \times 10^0$	$(5.23 \pm 1.13) \times 10^{-2}$	0
100% $\Phi \rightarrow e\mu$	$l^\pm l^\pm l^\mp$	$(1.83 \pm 0.30) \times 10^1$	$(4.00 \pm 0.66) \times 10^0$	$(5.19 \pm 1.94) \times 10^0$	5
	$l^\pm l^\pm \tau^\mp$	$(2.79 \pm 0.48) \times 10^0$	—	$(4.20 \pm 2.31) \times 10^{-1}$	0
	$l^+ l^+ l^- l^-$	—	$(9.19 \pm 1.57) \times 10^0$	$(1.22 \pm 0.18) \times 10^{-1}$	0
100% $\Phi \rightarrow e\tau$	$l^\pm l^\pm l^\mp$	$(3.11 \pm 0.52) \times 10^0$	$(1.21 \pm 0.21) \times 10^0$	$(6.62 \pm 1.81) \times 10^0$	10
	$l^\pm l^\pm \tau^\mp$	$(4.21 \pm 0.77) \times 10^{-1}$	$(1.37 \pm 0.32) \times 10^{-1}$	$(3.16 \pm 1.72) \times 10^{-1}$	0
	$l^\pm \tau^\pm l^\mp$	$(4.76 \pm 0.83) \times 10^0$	$(1.70 \pm 0.31) \times 10^0$	$(2.35 \pm 1.17) \times 10^0$	0
	$l^\pm \tau^\pm \tau^\mp$	$(7.04 \pm 1.32) \times 10^{-1}$	$(2.35 \pm 0.52) \times 10^{-1}$	$(1.47 \pm 1.12) \times 10^{-1}$	0
	$l^+ l^+ l^- l^-$	—	$(5.43 \pm 1.11) \times 10^{-1}$	$(8.57 \pm 1.47) \times 10^{-1}$	0
	$l^\pm l^\pm l^\mp \tau^\mp$	—	$(7.91 \pm 1.54) \times 10^{-1}$	$(5.99 \pm 2.59) \times 10^{-2}$	0
	$l^+ \tau^+ l^- \tau^-$	—	$(1.08 \pm 0.21) \times 10^0$	$(2.12 \pm 1.01) \times 10^{-2}$	1
100% $\Phi \rightarrow \mu\mu$	$l^\pm l^\pm l^\mp$	$(2.19 \pm 0.35) \times 10^1$	$(4.07 \pm 0.64) \times 10^0$	$(1.14 \pm 0.31) \times 10^0$	3
	$l^\pm l^\pm \tau^\mp$	$(3.35 \pm 0.57) \times 10^0$	—	$(4.23 \pm 3.45) \times 10^{-2}$	0
	$l^+ l^+ l^- l^-$	—	$(1.40 \pm 0.22) \times 10^1$	$(9.03 \pm 2.63) \times 10^{-2}$	0
100% $\Phi \rightarrow \mu\tau$	$l^\pm l^\pm l^\mp$	$(3.67 \pm 0.61) \times 10^0$	$(1.66 \pm 0.29) \times 10^0$	$(6.94 \pm 2.24) \times 10^0$	9
	$l^\pm l^\pm \tau^\mp$	$(5.00 \pm 0.90) \times 10^{-1}$	$(8.35 \pm 2.17) \times 10^{-2}$	$(3.64 \pm 1.89) \times 10^{-1}$	0
	$l^\pm \tau^\pm l^\mp$	$(5.82 \pm 0.99) \times 10^0$	$(2.47 \pm 0.43) \times 10^0$	$(8.86 \pm 3.38) \times 10^{-1}$	3
	$l^\pm \tau^\pm \tau^\mp$	$(8.62 \pm 1.58) \times 10^{-1}$	$(1.33 \pm 0.33) \times 10^{-1}$	$(2.42 \pm 1.84) \times 10^{-1}$	0
	$l^+ l^+ l^- l^-$	—	$(7.02 \pm 1.28) \times 10^{-1}$	$(1.52 \pm 0.31) \times 10^0$	1
	$l^\pm l^\pm l^\mp \tau^\mp$	—	$(1.09 \pm 0.20) \times 10^0$	$(1.18 \pm 0.39) \times 10^{-1}$	0
	$l^+ \tau^+ l^- \tau^-$	—	$(1.61 \pm 0.33) \times 10^0$	$(9.74 \pm 3.97) \times 10^{-3}$	0
100% $\Phi \rightarrow \tau\tau$	$l^\pm l^\pm l^\mp$	$(5.20 \pm 0.93) \times 10^{-1}$	$(3.72 \pm 1.29) \times 10^{-2}$	$(5.81 \pm 1.86) \times 10^0$	9
	$l^\pm l^\pm \tau^\mp$	$(4.67 \pm 1.22) \times 10^{-2}$	$(9.81 \pm 2.54) \times 10^{-2}$	$(8.11 \pm 5.37) \times 10^{-1}$	0
	$l^\pm \tau^\pm l^\mp$	$(1.71 \pm 0.30) \times 10^0$	$(1.75 \pm 0.44) \times 10^{-1}$	$(1.34 \pm 0.46) \times 10^0$	1
	$l^\pm \tau^\pm \tau^\mp$	$(2.01 \pm 0.42) \times 10^{-1}$	$(3.31 \pm 0.73) \times 10^{-1}$	$(3.13 \pm 1.91) \times 10^{-1}$	0
	$\tau^\pm \tau^\pm l^\mp$	$(1.41 \pm 0.26) \times 10^0$	$(1.10 \pm 0.29) \times 10^{-1}$	$(1.83 \pm 0.79) \times 10^{-1}$	0
	$\tau^\pm \tau^\pm \tau^\mp$	$(1.72 \pm 0.39) \times 10^{-1}$	$(2.65 \pm 0.65) \times 10^{-1}$	$(1.25 \pm 0.59) \times 10^{-1}$	0
	$l^+ l^+ l^- l^-$	—	$(2.17 \pm 0.87) \times 10^{-2}$	$(2.29 \pm 0.35) \times 10^0$	3
	$l^\pm l^\pm l^\mp \tau^\mp$	—	$(7.72 \pm 2.14) \times 10^{-2}$	$(1.51 \pm 0.46) \times 10^{-1}$	0
	$l^\pm l^\pm \tau^\mp \tau^\mp$	—	$(6.94 \pm 2.14) \times 10^{-2}$	$(1.55 \pm 1.55) \times 10^{-4}$	0
	$l^+ \tau^+ l^- \tau^-$	—	$(2.55 \pm 0.56) \times 10^{-1}$	$(6.50 \pm 2.07) \times 10^{-2}$	0
	$l^\pm \tau^\pm \tau^\mp \tau^\mp$	—	$(1.87 \pm 0.49) \times 10^{-1}$	$(4.93 \pm 2.03) \times 10^{-2}$	0
	$\tau^+ \tau^+ \tau^- \tau^-$	—	$(1.55 \pm 0.54) \times 10^{-1}$	$(5.54 \pm 4.25) \times 10^{-3}$	0