

Decay channel	Expected ZZ yield	Background	Total expected	Observed
4e	$55.28 \pm 0.25 \pm 7.64$	$2.16 \pm 0.26 \pm 0.88$	$57.44 \pm 0.37 \pm 7.69$	54
4 μ	$77.32 \pm 0.29 \pm 10.08$	$1.19 \pm 0.36 \pm 0.48$	$78.51 \pm 0.49 \pm 10.09$	75
2e2 μ	$136.09 \pm 0.59 \pm 17.50$	$2.35 \pm 0.34 \pm 0.93$	$138.44 \pm 0.70 \pm 17.52$	148
ee $\tau_h\tau_h$	$2.46 \pm 0.03 \pm 0.32$	$3.46 \pm 0.34 \pm 1.04$	$5.92 \pm 0.36 \pm 1.15$	10
$\mu\mu\tau_h\tau_h$	$2.80 \pm 0.03 \pm 0.34$	$3.89 \pm 0.37 \pm 1.17$	$6.69 \pm 0.39 \pm 1.30$	10
ee $\tau_e\tau_h$	$2.79 \pm 0.03 \pm 0.36$	$3.87 \pm 1.26 \pm 1.16$	$6.66 \pm 1.34 \pm 1.29$	9
$\mu\mu\tau_e\tau_h$	$2.87 \pm 0.03 \pm 0.37$	$1.49 \pm 0.67 \pm 0.60$	$4.36 \pm 0.71 \pm 0.73$	2
ee $\tau_\mu\tau_h$	$3.27 \pm 0.03 \pm 0.42$	$1.47 \pm 0.41 \pm 0.44$	$4.74 \pm 0.43 \pm 0.63$	2
$\mu\mu\tau_\mu\tau_h$	$3.81 \pm 0.03 \pm 0.50$	$1.55 \pm 0.43 \pm 0.46$	$5.36 \pm 0.46 \pm 0.70$	5
ee $\tau_e\tau_\mu$	$2.23 \pm 0.03 \pm 0.29$	$3.04 \pm 1.32 \pm 1.50$	$5.27 \pm 1.40 \pm 1.61$	4
$\mu\mu\tau_e\tau_\mu$	$2.41 \pm 0.03 \pm 0.32$	$0.74 \pm 0.51 \pm 0.37$	$3.15 \pm 0.54 \pm 0.51$	5
Total $ll\tau\tau$	$22.65 \pm 0.05 \pm 2.94$	$19.51 \pm 2.15 \pm 5.85$	$42.16 \pm 2.28 \pm 6.87$	47