

Category	Mass region	Criterion	Observables $\vec{x}$		
Lifetime	$105.6 < m_{4\ell} < 140.6 \text{ GeV}$	Any	$\Delta t$	$\mathcal{D}_{\text{bkg}}$	
Width, on-shell dijet	$105.6 < m_{4\ell} < 140.6 \text{ GeV}$	$N_{\text{jet}} \geq 2$	$m_{4\ell}$	$\mathcal{D}_{\text{bkg}}^{\text{kin}}$	$\mathcal{D}_{\text{jet}}$
Width, on-shell nondijet	$105.6 < m_{4\ell} < 140.6 \text{ GeV}$	$N_{\text{jet}} < 2$	$m_{4\ell}$	$\mathcal{D}_{\text{bkg}}^{\text{kin}}$	$p_{\text{T}}$
Width, off-shell dijet	$220 < m_{4\ell} < 1600 \text{ GeV}$	$\mathcal{D}_{\text{jet}} \geq 0.5$	$m_{4\ell}$	$\mathcal{D}_{\text{gg}}$	
Width, off-shell nondijet	$220 < m_{4\ell} < 1600 \text{ GeV}$	$\mathcal{D}_{\text{jet}} < 0.5$	$m_{4\ell}$	$\mathcal{D}_{\text{gg}}$	