

Background process	Final-state signature	Estimation method			
		τ -emb.	F_F	SS	Sim.
Z/γ^*	$\tau\tau$	✓	—	—	—
	$\text{Jet}\rightarrow\tau_h$	—	✓	—	—
	ll	—	—	—	✓
$t\bar{t}$	$\tau\tau$	✓	—	—	—
	$\text{Jet}\rightarrow\tau_h$	—	✓	—	—
	$l + X$	—	—	—	✓
Diboson+single t	$\tau\tau$	✓	—	—	—
	$\text{Jet}\rightarrow\tau_h$	—	✓	—	—
	$l + X$	—	—	—	✓
W+jets	$\text{Jet}\rightarrow\tau_h$	—	✓	—	—
	$\text{Jet}\rightarrow l$	—	—	—	✓
QCD multijet	$\text{Jet}\rightarrow\tau_h$	—	✓	—	—
	QCD($e\mu$)	—	—	✓	—
H(125)	$\tau\tau$	—	—	—	✓