Background process	Final state signature	Estimation method			
		τ-emb.	F_F	Sim.	SS
	$\tau\tau$	✓	—	—	—
Z	Jet $\to \tau_h$	—	✓	—	—
	$\ell\ell$	—	—	✓	—
	$\tau\tau$	✓	—	—	—
$t\bar{t}$	Jet $\to \tau_h$	—	✓	—	—
	$\ell + X$	—	—	✓	—
	$\tau\tau$	✓	—	—	—
Diboson+single t	Jet $\to \tau_h$	—	✓	—	—
	$\ell + X$	—	—	✓	—
W+jets	Jet $\to \tau_h$	—	✓	—	—
	Jet $\to \ell$	—	—	✓	—
QCD multijet	Jet $\to \tau_h$	—	✓	—	—
	Dijet $\to e\mu$	—	—	—	✓
h	$\tau\tau$	—	—	✓	—

$\ell = e, \mu$