DM-finding and $\tau_h$ isolation discriminants						
WP	Efficiency		Jet $ o  au_{ m h}$ misidentification rate			
	$Z/\gamma^*  o  au au$	$Z'(2.5 \text{ TeV}) \rightarrow \tau \tau$	W+jets	Multijet		
Cutoff-based						
Loose	49.0%	58.9%	$9.09 \times 10^{-3}$	$3.86 \times 10^{-3}$		
Medium	40.8%	50.8%	$5.13 \times 10^{-3}$	$2.06 \times 10^{-3}$		
Tight	38.1%	48.1%	$4.38 \times 10^{-3}$	$1.75 \times 10^{-3}$		
MVA-based						
Very loose	55.9%	71.2%	$1.29 \times 10^{-2}$	$6.21 \times 10^{-3}$		
Loose	50.7%	64.3%	$7.38 \times 10^{-3}$	$3.21 \times 10^{-3}$		
Medium	39.6%	50.7%	$3.32 \times 10^{-3}$	$1.30 \times 10^{-3}$		
Tight	27.3%	36.4%	$1.56 \times 10^{-3}$	$4.43\times10^{-4}$		

Discriminant against electrons						
WP	Efficiency		$\mathrm{e}  ightarrow  au_{\mathrm{h}}$ misidentification rate			
	$Z/\gamma^*  o  au au$	$Z'(2.5 \text{ TeV}) \rightarrow \tau \tau$	$Z/\gamma^*  o ee$			
Very loose	94.3%	89.6%	$2.38 \times 10^{-2}$			
Loose	90.6%	81.5%	$4.43 \times 10^{-3}$			
Medium	84.8%	73.2%	$1.38 \times 10^{-3}$			
Tight	78.3%	65.1%	$6.21 \times 10^{-4}$			
Very tight	72.1%	60.0%	$3.54 \times 10^{-4}$			

Discriminant against muons							
WP	Efficiency		$\mu  ightarrow  au_{ m h}$ misidentification rate				
	$Z/\gamma^*  o  au au$	$Z'(2.5 \text{ TeV}) \rightarrow \tau \tau$	$Z/\gamma^*  o \mu \mu$				
Cutoff-based							
Loose	99.3%	96.4%	$1.77 \times 10^{-3}$				
Tight	99.1%	95.0%	$7.74 \times 10^{-4}$				
MVA-based							
Loose	99.5%	99.4%	$5.20 \times 10^{-4}$				
Medium	99.0%	98.8%	$3.67 \times 10^{-4}$				
Tight	98.0%	97.7%	$3.18 \times 10^{-4}$				