

Variable	Selection	Purpose
p_T^{miss}	$> 200 \text{ GeV}$	Signal purity
H_T^{miss}	$> 200 \text{ GeV}$	
$\vec{p}_{T,1}^j$	$> 80 \text{ GeV}$	
$H_T^{\text{miss}} / p_T^{\text{miss}}$	< 1.2	Event quality
$ \Delta\phi(\vec{p}_T^{\text{miss}}, \vec{H}_T^{\text{miss}}) $	< 0.5	
$ \eta_1 , \eta_2 $	< 2.4	Analysis orthogonalisation
VBF signal	Veto (inversion on signal selection)	
m_T^ℓ	$< 110 \text{ GeV}$	
$m_{\ell\ell}$	$< 120 \text{ GeV}$	