

Category	VBF-tagged	VH-tagged	Untagged
Selection	$D_{2\text{jet}}^{\text{VBF}} > 0.5$	$D_{2\text{jet}}^{\text{ZH}}$ or $D_{2\text{jet}}^{\text{WH}} > 0.5$	Rest of the events
Observables	$m_{4\ell}, D_{\text{bkg}}^{\text{VBF+dec}}, D_{\text{bsi}}^{\text{VBF+dec}}$	$m_{4\ell}, D_{\text{bkg}}^{\text{VH+dec}}, D_{\text{bsi}}^{\text{VH+dec}}$	$m_{4\ell}, D_{\text{bkg}}^{\text{kin}}, D_{\text{bsi}}^{\text{gg+dec}}$