Decay mode	Observables	Data set
H $\to \gamma\gamma$ [526]	$p_T^{\gamma\gamma}, n_j, \|y^{\gamma\gamma}\|, \|\cos(\theta^*)\|, \phi_\eta, n_{\text{b jet}}, n_\ell, p_T^{\text{miss}},$ $p_T^{j1}, \|y_{j1}\|, \|\Delta\phi_{\gamma\gamma,j1}\|, \|\Delta y_{\gamma\gamma,j1}\|, \mathcal{T}_C^j,$ $p_T^{j2}, \|y_{j2}\|, \|\Delta\Phi_{j1,j2}\|, \|\Delta\Phi_{\gamma\gamma,j1j2}\|,$ $\|\overline{\eta}_{j1j2} - \eta_{\gamma\gamma}\|, m_{jj}, \|\Delta\eta_{j1j2}\|$	137 fb^{-1}
H $\to$ ZZ $\to 4\ell$ [527]	$p_T^H, \|y_H\|, n_j, p_T^{j1}, p_T^{j2}, m_{jj},$ $\Delta\Phi_{jj}, \|\Delta\eta_{jj}\|, m_{Hj}, p_T^{Hj}, p_T^{Hjj}, \mathcal{T}_C^{\text{max}}, \mathcal{T}_B^{\text{max}},$ $m_{Z1}, m_{Z2}, \cos\theta^*, \cos\theta_1, \cos\theta_2, \Phi, \Phi_1,$ $D_{0-}^{\text{dec}}, D_{0h+}^{\text{dec}}, D_{CP}^{\text{dec}}, D_{\text{int}}^{\text{dec}}, D_{\Lambda1}^{\text{dec}}, D_{\Lambda1}^{Z\gamma,\text{dec}}$	138 fb^{-1}
H $\to \tau\tau$ [528]	p_T^H, n_j, p_T^{j1}	137 fb^{-1}
H $\to$ WW [529]	p_T^H, n_j	137 fb^{-1}
Boosted H $\to b\overline{b}$ [537]	$p_T^H \ (p_T^H > 450\,\text{GeV})$	137 fb^{-1}
Combination H $\to \gamma\gamma$ H $\to$ ZZ*, H $\to b\overline{b}$ [539]	p_T^H, n_j, y_H, p_T^j	36 fb^{-1}