

| Observable | Definition | Bin boundaries |
|------------------------------|---|--|
| p_T^H | Transverse momentum of the 4ℓ system | [0,10,20,30,45,60,80,120,200, ∞ [GeV |
| $ y_H $ | Rapidity of the 4ℓ system | [0,0.15,0.3,0.45,0.6,0.75,0.9,1.2,1.6,2.5] |
| N_{jets} | Number of associated jets in the event | =0,=1,=2,=3, ≥ 4 |
| $p_T^{j_1}$ | Transverse momentum of the leading jet | [0-jet,30,55,95,200, ∞ [GeV |
| $p_T^{j_2}$ | Transverse momentum of the subleading jet | [0/1-jet,30,40,65,90, ∞ [GeV |
| $\mathcal{T}_C^{\text{max}}$ | Rapidity-weighted jet veto | [0-jet $\mathcal{T}_C^{\text{max}}$,15,20,30,50,80, ∞ [GeV |
| $\mathcal{T}_B^{\text{max}}$ | Rapidity-weighted jet veto | [0-jet $\mathcal{T}_B^{\text{max}}$,30,45,75,150, ∞ [GeV |
| m_{jj} | Invariant mass of the leading and subleading jets system | [0/1-jet,0,120,300, ∞ [GeV |
| $ \Delta\eta_{jj} $ | Difference in pseudorapidities of the leading and subleading jets | [0/1-jet,0.0,1.6,3.0,10.0] |
| $\Delta\phi_{jj}$ | Azimuthal angle difference between the leading and subleading jets | [0/1-jet, $-\pi$, $-\pi/2$, 0, $\pi/2$, π] |
| p_T^{Hj} | Transverse momentum of the 4ℓ and leading jet system | [0-jet,0,30,50,110, ∞ [GeV |
| m_{Hj} | Invariant mass of the 4ℓ and leading jet system | [0-jet,110,180,220,300,400,600, ∞ [GeV |
| p_T^{Hjj} | Transverse momentum of the 4ℓ , leading and subleading jets system | [0/1-jet,0,20,60, ∞ [GeV |