	Observable	5j3b	6j4b	6j3b3l	7j4b3l
$\sigma_{ m fid}$	Inclusive cross section	\checkmark	\checkmark	\checkmark	\checkmark
Global observables					
$N_{ m jets}$	Jet multiplicity	\checkmark	\checkmark		
$\dot{N}_{ m b}$	b jet multiplicity	\checkmark			
$H_{ m T}^j$	Scalar sum of jet p_T	\checkmark	\checkmark		
$H_{ m T}^{ m b}$	Scalar sum of b jet p_T	\checkmark	\checkmark		
$H_{ m T}^{ m light}$	Scalar sum of light jet p_T			\checkmark	\checkmark
Observables related to b jets					
$p_{\mathrm{T}}(\mathrm{b}_3)$	$p_{\rm T}$ of third hardest b jet	\checkmark	\checkmark		
$ \eta(\mathbf{b}_3) $	$ \eta $ of third hardest b jet	\checkmark	\checkmark		
$p_{\mathrm{T}}(\mathrm{b}_4)$	$p_{\rm T}$ of fourth hardest b jet		\checkmark		
$ \eta(b_4) $	$ \eta $ of fourth hardest b jet		\checkmark		
Observables conside	ering all pairs of b jets (bb)				
$\Delta R_{bb}^{\mathrm{avg}}$	Average ΔR of all bb pairs		\checkmark		
$m_{bb}^{ ext{max}}$	Highest invariant mass among all bb pairs		\checkmark		
Observables related to the pair of b jets closest in ΔR (bb ^{extra})					
$egin{aligned} p_{ ext{T}}(ext{b}_1^{ ext{extra}}) \ \eta(ext{b}_1^{ ext{extra}}) \end{aligned}$	$p_{\rm T}$ of leading extra b jet		\checkmark		
$ \eta(\mathbf{b}_1^{\text{extra}}) $	$ \eta $ of leading extra b jet		\checkmark		
$p_{\mathrm{T}}(\mathrm{b}_{2}^{\mathrm{extra}})$	$p_{\rm T}$ of subleading extra b jet		\checkmark		
$ \eta(\mathbf{b}_2^{\text{extra}}) $	$ \eta $ of subleading extra b jet		\checkmark		
$ \eta(b_2^{ ext{extra}}) \ \Delta R(bb^{ ext{extra}})$	ΔR of bb extra pair		\checkmark		
$ \eta $ (bb ^{extra})	$ \eta $ of bb ^{extra} pair		\checkmark		
$m(bb^{extra})$	invariant mass of bb ^{extra} pair		\checkmark		
$p_{\rm T}({\rm bb^{extra}})$	$p_{\rm T}$ of bb ^{extra} pair		\checkmark		
Observables related to the pair of b jets not from $t\bar{t}$ decay (bb ^{add.})					
$p_{\mathrm{T}}(\mathrm{b}_{1}^{\mathrm{add.}})$	$p_{\rm T}$ of leading additional b jet		√ *		
$ \eta(b_1^{\text{add.}}) $	$ \eta $ of leading additional b jet		√ *		
$p_{\mathrm{T}}(\mathbf{b}_{2}^{\mathrm{add.}})$	$p_{\rm T}$ of subleading additional b jet		√ *		
$ \eta(\mathbf{b}_2^{\mathrm{add.}}) $	$ \eta $ of subleading additional b jet		√ *		
$\Delta R(bb^{add.})$	ΔR of bb ^{add.} pair		· ✓*		
$ \eta (bb^{add.})$	$ \eta $ of bb add. pair		, (*		
$m(bb^{add.})$	invariant mass of bb ^{add.} pair		*		
$p_{\rm T}({\rm bb}^{\rm add.})$	$p_{\rm T}$ of bb ^{add.} pair		v ••*		
	•		•		
Observables related				,	,
$p_{\rm T}({\rm lj}_1^{\rm extra})$	$p_{\rm T}$ of leading extra light jet			√	√
$ \Delta\phi(\mathrm{lj}_1^{\mathrm{extra}},\mathrm{b}_{\mathrm{soft}}) $	$\Delta \phi$ of leading extra light jet and softest b jet			√	√