Variable	Description	0-lepton	1-lepton	2-lepton
$M(\mathrm{jj})$	Dijet invariant mass	✓	✓	✓
$p_{\mathrm{T}}(\mathrm{jj})$	Dijet transverse momentum	✓	✓	✓
$\vec{p}_{\mathrm{T}}^{\,\mathrm{miss}}$	Missing transverse momentum	✓	✓	✓
$M_{\mathrm{t}}(\mathrm{V})$	Transverse mass of the vector boson		✓	
$p_{\mathrm{T}}(\mathrm{V})$	Transverse momentum of the vector boson		✓	✓
$p_{\mathrm{T}}(\mathrm{jj})/\ p_{\mathrm{T}}(\mathrm{V})$	Ratio of transverse momenta of the vector boson and Higgs boson		✓	✓
$\Delta\phi(\mathrm{V},\mathrm{H})$	Azimuthal angle between the vector boson and the dijet directions	✓	✓	✓
$\mathrm{btag}_{\mathrm{max}}$	b tagging score of leading jet	✓	✓	✓
$\mathrm{btag}_{\mathrm{min}}$	b tagging score of subleading jet	✓	✓	✓
$\Delta\eta(\mathrm{jj})$	Pseudorapidity difference between leading and subleading jet	✓	✓	✓
$\Delta\phi(\mathrm{jj})$	Azimuthal angle between leading and subleading jet	✓	✓	
$p_{\mathrm{T}}^{\mathrm{max}}(\mathrm{j}_1,\mathrm{j}_2)$	Maximum transverse momentum of jet between leading and subleading jet	✓	✓	
SA5	Number of soft-track jets with momentum greater than 5 GeV	✓		✓
N_{aj}	Number of additional jets	✓	✓	
$\mathrm{btag}_{\mathrm{max}}$ (add)	Maximum b tagging discriminant score among additional jets	✓		
$p_{\mathrm{T}}^{\mathrm{max}}(\mathrm{add})$	Maximum transverse momentum among additional jets	✓		
$\Delta\phi(\mathrm{jet},\vec{p}_{\mathrm{T}}^{\,\mathrm{miss}})$	Azimuthal angle between additional jet and $\vec{p}_{\mathrm{T}}^{\,\mathrm{miss}}$	✓		
$\Delta\phi(\mathrm{lep},\vec{p}_{\mathrm{T}}^{\,\mathrm{miss}})$	Azimuthal angle between lepton and $\vec{p}_{\mathrm{T}}^{\,\mathrm{miss}}$		✓	
M_{t}	Reconstructed top quark mass		✓	
$p_{\mathrm{T}}(\mathrm{j}_1)$	Transverse momentum of leading jet			✓
$p_{\mathrm{T}}(\mathrm{j}_2)$	Transverse momentum of subleading jet			✓
$M(\mathrm{V})$	Reconstructed vector boson mass			✓
$\Delta R(\mathrm{V},\mathrm{H})$	Angular separation between the vector boson and Higgs boson			✓
$\Delta R(\mathrm{V},\mathrm{H})$ (kin)	Angular separation between the vector boson and Higgs boson (reconstructed after kinematic fit)			✓
$\sigma(M(\mathrm{jj}))$	Resolution of dijet invariant mass			✓
N_{rec}	Number of recoil jets			✓