Inclusive

Forward-lepton/ central-jet region Forward-lepton control region

$$\begin{array}{l} N_{\rm jets}^{\rm cen} \geq 1 \\ N_{\rm lepton}^{\rm cen} = 0 \end{array}$$

$$N_{\text{jets}}^{\text{cen}} = 0$$

 $N_{\text{lepton}}^{\text{cen}} = 0$

Central-jet validation region

$$N_{
m jets}^{
m cen} \ge 1$$

 $N_{
m lepton}^{
m cen} = 1$

Signal region

$$N_{\text{jets}}^{\text{cen}} = 0$$

 $N_{\text{lepton}}^{\text{cen}} = 1$

Jet centrality