Event sample legend

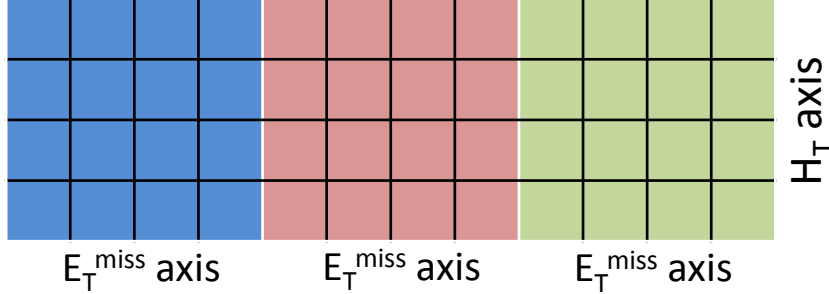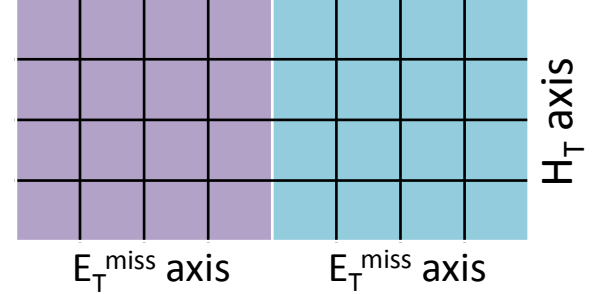| **ZL** = Zero Lepton; signal sample	**SL** = Single Lepton; top & W+jets control sample	**LDP** = low $\Delta\hat{\phi}_{min}$; QCD control sample	**Zee** = $Z \rightarrow e^+e^-$; Z to $\nu\bar{\nu}$ control sample	**Zμμ** = $Z \rightarrow \mu^+\mu^-$; Z to $\nu\bar{\nu}$ control sample

ZL **SL** **LDP**

$N_{b\text{-jet}} = 1$

E_T^{miss} axis E_T^{miss} axis E_T^{miss} axis

H_T axis

Zee **Zμμ**

Loose b-jet tagging

E_T^{miss} axis E_T^{miss} axis

H_T axis

ZL **SL** **LDP**

$N_{b\text{-jet}} = 2$

E_T^{miss} axis E_T^{miss} axis E_T^{miss} axis

H_T axis
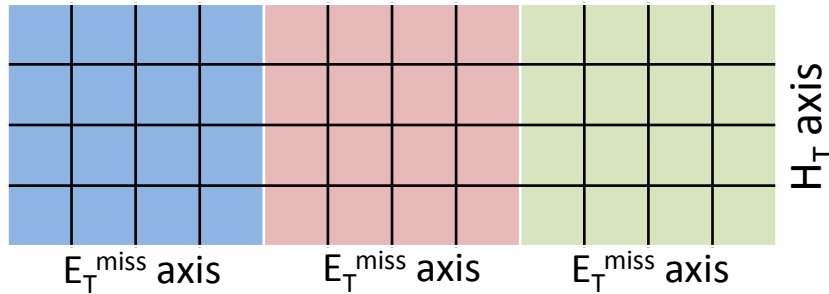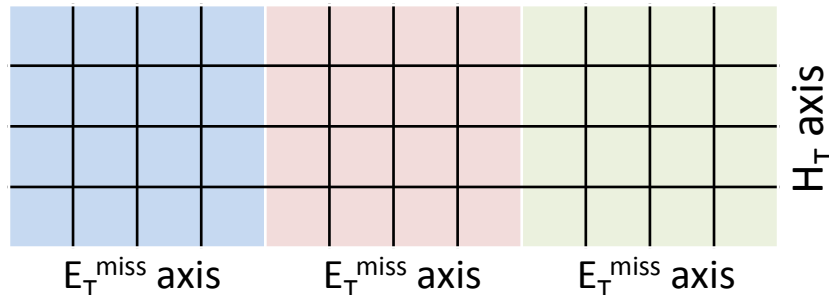
Bin	H_T (GeV)	E_T^{miss} (GeV)
1	400 − 500 (HT1)	125 − 150 (MET1)
2	500 − 800 (HT2)	150 − 250 (MET2)
3	800 − 1000 (HT3)	250 − 350 (MET3)
4	> 1000 (HT4)	> 350 (MET4)

ZL **SL** **LDP**

$N_{b\text{-jet}} \geq 3$

E_T^{miss} axis E_T^{miss} axis E_T^{miss} axis

H_T axis