

Analysis channels

Discriminating variable

SR-0 ℓ -2VTJ and SR-0 ℓ -3VTJ

$$S_T = \sum p_{T, \nu \text{ jet}} + \sum p_{T, \text{jet}}$$

SR-1 ℓ -2VTJ

$$m_{JJ\ell\nu} = \sqrt{(p_\ell + p_\nu + p_{\nu \text{ jet},1} + p_{\nu \text{ jet},2})^2}$$

SR-2 ℓ -OS-1VTJ

$$S_T = \sum p_{T, \nu \text{ jet}} + \sum p_{T, \text{jet}} + \sum p_{T, \ell}$$

SR-2 ℓ -OS-2VTJ and SR-2 ℓ -SS-1VTJ

$$S_T = \sum p_{T, \nu \text{ jet}} + \sum p_{T, \text{jet}} + \sum p_{T, \ell} + p_T^{\text{miss}}$$

SR-1 ℓ -1 τ_h -1VTJ and SR-2 ℓ -1 τ_h -0VTJ

$$S_T = \sum p_{T, \ell} + \sum p_{T, \text{jet}} + p_{T, t} \text{ and BDT scores}$$