

**Same-sign channel ( $\mu\mu/e\mu$ )**

Exactly two tight same sign leptons

 $p_T > 25/15$  GeV **$lll$  channel**

Exactly three tight leptons

 $p_T > 25/15/15$  GeVNo lepton pair with  $|m_{\ell\ell} - m_Z| < 15$  GeVNo loose leptons with  $m_{\ell\ell} < 12$  GeVOne or more b tagged jet with  $p_T > 25$  GeV and  $|\eta| < 2.4$ One or more untagged jet with  $p_T > 25$  GeV for  $|\eta| < 2.4$  and  $p_T > 40$  GeV for  $|\eta| > 2.4$