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Same-sign channel ( $\mu^\pm\mu^\pm$  or  $e^\pm\mu^\pm$ )

Exactly two tight SS leptons

$p_T > 25/15$  GeV

No loose leptons with  $m_{\ell\ell} < 12$  GeV

One or more b-tagged jet with  $p_T > 25$  GeV and  $|\eta| < 2.4$

One or more untagged jets with  $p_T > 25$  GeV for  $|\eta| < 2.4$  and  $p_T > 40$  GeV for  $|\eta| > 2.4$

*lll* channel

Exactly three tight leptons

$p_T > 25/15/15$  GeV

No lepton pair with  $|m_{\ell\ell} - m_Z| < 15$  GeV

No loose leptons with  $m_{\ell\ell} < 12$  GeV

One or more b-tagged jet with  $p_T > 25$  GeV and  $|\eta| < 2.4$

One or more untagged jets with  $p_T > 25$  GeV for  $|\eta| < 2.4$  and  $p_T > 40$  GeV for  $|\eta| > 2.4$

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