

HL-LHC v1.6. E = 7.0 TeV. CC = 0.0  $\mu\text{rad}$ .  $N_b \approx 2.2 \times 10^{11}$  ppb,

$L_{1/5} = 0\text{cm}^{-2}\text{s}^{-1}$ ,  $L_2 = 0\text{cm}^{-2}\text{s}^{-1}$ ,  $L_8 = 0\text{cm}^{-2}\text{s}^{-1}$

$\text{PU}_{1/5} = 0$ ,  $\beta_{x,1}^* = 1.1$  m,  $\beta_{y,1}^* = 1.1$  m, polarity  $\text{IP}_{2/8} = 1/1$

$\Phi/2_{1(\text{H})} = 250$   $\mu\text{rad}$ ,  $\Phi/2_{5(\text{V})} = 250$   $\mu\text{rad}$ ,  $\Phi/2_{2,\text{V}} = -170$   $\mu\text{rad}$ ,  $\Phi/2_{8,\text{V}} = 170$   $\mu\text{rad}$

$\sigma_z = 7.61$  cm,  $\epsilon_n = 2.3$   $\mu\text{m}$ ,  $Q' = 15$ ,  $I_{\text{MO}} = -300.0$  A,  $C^- = 0.001$

25ns\_2760b\_2748\_2492\_2574\_288bpi\_13inj\_800ns\_bs200ns.json. Bunch 150.

