

HL-LHC v1.6. E = 7.0 TeV. CC = -190.0  $\mu$ rad.  $N_b \simeq 1.13 \times 10^{11}$  ppb,

$L_{1/5} = 5.06 \times 10^{34} \text{cm}^{-2} \text{s}^{-1}$ ,  $L_2 = 1.96 \times 10^{30} \text{cm}^{-2} \text{s}^{-1}$ ,  $L_8 = 1.99 \times 10^{33} \text{cm}^{-2} \text{s}^{-1}$

PU $_{1/5} = 133$ ,  $\beta_{x,1}^* = 0.15$  m,  $\beta_{y,1}^* = 0.15$  m, polarity IP $_{2/8} = 1/1$

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

$\sigma_z = 7.61$  cm,  $\epsilon_n = 2.5$   $\mu$ m,  $Q' = 15$ ,  $I_{\text{MO}} = -60.0$  A,  $C^- = 0.001$

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

