

HL-LHC v1.6. E = 7.0 TeV. CC =  $-190.0 \mu\text{rad}$ .  $N_b \simeq 9 \times 10^{10}$  ppb,  
 $L_{1/5} = 3.68 \times 10^{34} \text{cm}^{-2} \text{s}^{-1}$ ,  $L_2 = 1.2 \times 10^{30} \text{cm}^{-2} \text{s}^{-1}$ ,  $L_8 = 2.03 \times 10^{33} \text{cm}^{-2} \text{s}^{-1}$   
 $\text{PU}_{1/5} = 96.5$ ,  $\beta_{x,1}^* = 0.15 \text{ m}$ ,  $\beta_{y,1}^* = 0.15 \text{ m}$ , polarity  $\text{IP}_{2/8} = 1/1$   
, ,  $\Phi_{2, \nu} = -170 \mu\text{rad}$ ,  $\Phi_{2, \nu} = 170 \mu\text{rad}$   
 $\sigma_z = 7.61 \text{ cm}$ ,  $\varepsilon_n = 2.5 \mu\text{m}$ ,  $Q' = 15$ ,  $I_{\text{MO}} = -300.0 \text{ A}$ ,  $C^- = 0.001$   
25ns\_2760b\_2748\_2492\_2574\_288bpi\_13inj\_800ns\_bs200ns.json. Bunch 150.

