

HL-LHC v1.6. E = 7.0 TeV. End of levelling. CC ON.  $N_b \simeq 1.16 \times 10^{11}$  ppb,  
 $L_{1/5} = 5.28 \times 10^{34} \text{cm}^{-2} \text{s}^{-1}$ ,  $L_2 = 1.29 \times 10^{30} \text{cm}^{-2} \text{s}^{-1}$ ,  $L_8 = 1.98 \times 10^{33} \text{cm}^{-2} \text{s}^{-1}$   
 $\text{PU}_{1/5} = 156$ ,  $\beta_{x,1}^* = 0.15$  m,  $\beta_{y,1}^* = 0.15$  m, polarity  $\text{IP}_{2/8} = 1/1$   
 $\Phi/2_{1(\text{H})} = 250 \text{ } \mu\text{rad}$ ,  $\Phi/2_{5(\text{V})} = 250 \text{ } \mu\text{rad}$ ,  $\Phi/2_{2,\text{V}} = -170 \text{ } \mu\text{rad}$ ,  $\Phi/2_{8,\text{V}} = 170 \text{ } \mu\text{rad}$   
 $\sigma_z = 7.61$  cm,  $\varepsilon_n = 2.3 \text{ } \mu\text{m}$ ,  $C^- = 0.001$   
25ns\_2452b\_2440\_1952\_2240\_248bpi\_12inj. Bunch 1130.

