

HL-LHC v1.6. E = 7.0 TeV.  $N_b \simeq 2.3 \times 10^{11}$  ppb,

$L_{1/5} = 3.24 \times 10^{34} \text{cm}^{-2}\text{s}^{-1}$ ,  $L_2 = 4.62 \times 10^{30} \text{cm}^{-2}\text{s}^{-1}$ ,  $L_8 = 1.65 \times 10^{33} \text{cm}^{-2}\text{s}^{-1}$

PU<sub>1/5</sub> = 84.9,  $\beta_{y,1}^* = 0.7$  m,  $\beta_{x,1}^* = 2.8$  m, polarity IP<sub>2/8</sub> = 1/1

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

$\sigma_z = 7.61$  cm,  $\epsilon_n = 2.0$   $\mu\text{m}$ ,  $Q' = 15$ ,  $C^- = 0.001$

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

