

HL-LHC v1.6. E = 7.0 TeV. CC = -190.0  $\mu$ rad.

$L_{1/5} = 5.22 \times 10^{34} \text{ cm}^{-2} \text{ s}^{-1}$ ,  $L_2 = 4.22 \times 10^{29} \text{ cm}^{-2} \text{ s}^{-1}$ ,  $L_8 = 2.02 \times 10^{33} \text{ cm}^{-2} \text{ s}^{-1}$

$\text{PU}_{1/5} = 136$ ,  $\beta_{x,1}^* = 0.075 \text{ m}$ ,  $\beta_{y,1}^* = 0.18 \text{ m}$ , polarity  $\text{IP}_{2/8} = 1/1$

$\Phi_{2, \text{v}} = -170 \mu\text{rad}$ ,  $\Phi_{2, \text{v}} = 170 \mu\text{rad}$

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

25ns\_2760b\_2748\_2492\_2574\_288bpi\_13inj\_800ns\_bs200ns\_converted.json. Bunch 149.

