

HL-LHC v1.600000023841858. E = 7.0 TeV. CC = 0.0  $\mu\text{rad}$ .  $N_b \simeq 1.89 \times 10^{11}$  ppb.

$L_1 \simeq 4.77 \times 10^{34} \text{ cm}^{-2}\text{s}^{-1}$ .  $\text{PU}_1 \simeq 175$ .  $L_5 \simeq 4.76 \times 10^{34} \text{ cm}^{-2}\text{s}^{-1}$ .  $\text{PU}_5 \simeq 175$ .

$L_2 \simeq 1.06 \times 10^{30} \text{ cm}^{-2}\text{s}^{-1}$ .  $\text{PU}_2 \simeq 0.00651$ .  $L_8 \simeq 3.51 \times 10^{33} \text{ cm}^{-2}\text{s}^{-1}$ .  $\text{PU}_8 \simeq 13.4$ .

$\beta_{x,1}^* = 0.15 \text{ m}$ ,  $\beta_{y,1}^* = 0.15 \text{ m}$ . polarity  $\text{IP}_{2/8} = 1/1$ .  $\sigma_z = 7.61 \text{ cm}$ .

$\Phi/2_{1(\text{H})} = 250 \mu\text{rad}$ .  $\Phi/2_{5(\text{V})} = 250 \mu\text{rad}$ .  $\Phi/2_2 = -170 \mu\text{rad}$ .  $\Phi/2_{8,V} = 170 \mu\text{rad}$ .

$\varepsilon_n = 2.5 \mu\text{m}$ .  $Q' = 15$ .  $I_{\text{OCT}} = -60.0 \text{ A}$ .  $C^- = 0.001$ .

8b4e\_1972b\_1960\_1178\_1886\_224bpi\_12inj. Bunch 88.

