

run III (2023). E = 6.8 TeV.  $N_b \simeq 1.4 \times 10^{11}$  ppb,  $L_{1/5} = 2 \times 10^{34} \text{ cm}^{-2} \text{ s}^{-1}$ .

$\beta_{x, \text{IP1}}^* = 0.485 \text{ m}$ ,  $\beta_{y, \text{IP1}}^* = 0.485 \text{ m}$ ,  $\Phi/2_{\text{IP1(V)}} = 149 \mu\text{rad}$ ,  $\Phi/2_{\text{IP5(H)}} = 149 \mu\text{rad}$

$\Phi/2_{\text{IP2, V}} = 200 \mu\text{rad}$ ,  $\Phi/2_{\text{IP8, V}} = 200 \mu\text{rad}$ , polarity  $\text{IP}_{2/8} = 1/1$

$\sigma_z = 9.0 \text{ cm}$ ,  $\epsilon_n = 2.2 \mu\text{m}$ ,  $Q' = 15.0$ ,  $I_{\text{MO}} = 300.0 \text{ A}$ ,  $C^- = 0.0$

25ns\_2464b\_2452\_1842\_1821\_236bpi\_12inj. Bunch 411.

