

Run III (2024) (ions).  $E = 6.8$  Z TeV.  $N_b \simeq 1.8 \times 10^8$  ppb,

$L_{1/5} = 6.403 \times 10^{27} \text{cm}^{-2} \text{s}^{-1}$ ,  $L_2 = 6.404 \times 10^{27} \text{cm}^{-2} \text{s}^{-1}$ ,  $L_8 = 9.822 \times 10^{26} \text{cm}^{-2} \text{s}^{-1}$

$\beta_{x, \text{IP1}}^* = 0.5$  m,  $\beta_{y, \text{IP1}}^* = 0.5$  m, polarity  $\text{IP}_{2/8} = 1/1$

$\Phi/2_{\text{IP1(V)}} = 140$   $\mu\text{rad}$ ,  $\Phi/2_{\text{IP5(H)}} = 140$   $\mu\text{rad}$ ,  $\Phi/2_{\text{IP2,V}} = -140$   $\mu\text{rad}$ ,  $\Phi/2_{\text{IP8,H}} = -235$   $\mu\text{rad}$

$\sigma_z = 8.24$  cm,  $\epsilon_n = 2.2$   $\mu\text{m}$ ,  $Q' = 10.0$ ,  $I_{\text{MO}} = 100.0$  A,  $C^- = 0.001$

50ns\_1240b\_1088\_1088\_398\_56bpi\_PbPb\_converted.json. Bunch 488.

