Run III (2023). E = 6.8 TeV.  $N_b \simeq 1.4 \times 10^{11}$  ppb,  $L_{1/5} = 2 \times 10^{34} \text{ cm}^{-2} \text{ s}^{-1}, L_2 = 1.9 \times 10^{30} \text{ cm}^{-2} \text{ s}^{-1}, L_8 = 2 \times 10^{33} \text{ cm}^{-2} \text{ s}^{-1}$  $\beta_{x \text{ IP1}}^* = 0.485 \text{ m}, \ \beta_{y \text{ IP1}}^* = 0.485 \text{ m}, \ \text{polarity IP}_{2/8} = 1/1$  $\Phi/2_{\text{IP1(V)}} = 149 \text{ µrad}, \Phi/2_{\text{IP5(H)}} = 149 \text{ µrad}, \Phi/2_{\text{IP2-V}} = 200 \text{ µrad}, \Phi/2_{\text{IP8-V}} = 200 \text{ µrad}$  $\sigma_z = 9.0 \text{ cm}, \ \varepsilon_n = 2.2 \ \mu\text{m}, \ Q' = 15.0, \ I_{MO} = 300.0 \ A, \ C^- = 0.0$ 25ns\_2464b\_2452\_1842\_1821\_236bpi\_12inj. Bunch 411. 65.302 65.302 65.312 65.312 65.312 65.310 65.35 60.329 8.0 60.325 -- 7.5 - 7.0 60.323 -- <sub>6.5</sub> ම 60.321 -60.319 -60.317 -60.315 -60.313 -60.311 -60.309

Horizontal tune Q<sub>x</sub>

/ertical tune Q<sub>v</sub>