Run III (2024). E = 557.6 TeV.  $N_b \simeq 1.8 \times 10^8$  ppb,  $L_{1/5} = 6.403 \times 10^{27} \text{ cm}^{-2} \text{ s}^{-1}, L_2 = 6.403 \times 10^{27} \text{ cm}^{-2} \text{ s}^{-1}, L_8 = 8.387 \times 10^{26} \text{ cm}^{-2} \text{ s}^{-1}$  $\beta_{x \text{ IP1}}^* = 0.5 \text{ m}, \beta_{y \text{ IP1}}^* = 0.5 \text{ m}, \text{ polarity IP}_{2/8} = 1/-1$  $\Phi/2_{\text{IP1(V)}} = 170 \,\mu\text{rad}, \,\Phi/2_{\text{IP5(H)}} = 170 \,\mu\text{rad}, \,\Phi/2_{\text{IP2 V}} = -170 \,\mu\text{rad}, \,\Phi/2_{\text{IP8 H}} = -135 \,\mu\text{rad}$  $\sigma_z = 8.24 \text{ cm}, \ \varepsilon_n = 2.2 \ \mu\text{m}, \ Q' = 10.0, \ I_{MO} = 100.0 \ A, \ C^- = 0.001$ 50ns\_1240b\_1088\_1088\_398\_56bpi\_PbPb\_converted.json. Bunch 488. 65<sup>.30</sup> 65<sup>.30</sup> 65<sup>.31</sup> 65<sup>.31</sup> 65<sup>.31</sup> 65<sup>.31</sup> 65<sup>.31</sup> 65<sup>.31</sup> 65<sup>.32</sup> 65<sup>.35</sup> 65<sup>.35</sup> 65<sup>.35</sup> 60.327 -20 60.325 -- 18 60.323 -60.315 -60.313 - 16.4 16.5 16.2 60.311 - 16.9 172 16.0 60.309 -

Horizontal tune Q<sub>x</sub>

/ertical tune Q<sub>y</sub>