HL-LHC v1.6. E = 7.0 TeV. $N_b \simeq 2.2 \times 10^{11}$ ppb, $L_{1/5} = 0 \text{cm}^{-2} \text{s}^{-1}, L_2 = 6.47 \times 10^{30} \text{cm}^{-2} \text{s}^{-1}, L_8 = 1.96 \times 10^{33} \text{cm}^{-2} \text{s}^{-1}$ $\beta_{x,1}^* = 1.1 \text{ m}, \beta_{y,1}^* = 1.1 \text{ m}, \text{ polarity IP}_{2/8} = 1/1$ $\Phi/2_{1(V)} = 250 \,\mu\text{rad}, \,\Phi/2_{5(H)} = 250 \,\mu\text{rad}, \,\Phi/2_{2,V} = -170 \,\mu\text{rad}, \,\Phi/2_{8,V} = 170 \,\mu\text{rad}$ $\sigma_z = 7.61 \text{ cm}, \ \varepsilon_n = 2.3 \ \mu\text{m}, \ Q' = 15, \ I_{MO} = -300.0 \ A, \ C^- = 0.001$ 25ns_2760b_2748_2492_2574_288bpi_13inj_800ns_bs200ns.json. Bunch 150. 630° 630° 630° 631° 631° 6531° 6531° 6535° 60.329 -8.0 60.325 -- 7.5 60.323 - 4.6 60.321 -60.319 -60.317 -- 5.0 60.315 -- 4.5 60.313 -

Horizontal tune Q_x

/ertical tune Q_v

60.311 -

60.309 -