HL-LHC v1.6. E = 7.0 TeV. CC = 0.0 μ rad. N_b $\simeq 2.2 \times 10^{11}$ ppb, $L_{1/5} = 2.44 \times 10^{34} \text{cm}^{-2} \text{s}^{-1}, L_2 = 6.71 \times 10^{30} \text{cm}^{-2} \text{s}^{-1}, L_8 = 1.97 \times 10^{33} \text{cm}^{-2} \text{s}^{-1}$ $PU_{1/5} = 64.2$, $\beta_{v,1}^* = 0.9$ m, $\beta_{v,1}^* = 1.8$ m, polarity $IP_{2/8} = 1/1$ $\Phi/2_{1(H)} = 250 \,\mu\text{rad}, \,\Phi/2_{5(V)} = 250 \,\mu\text{rad}, \,\Phi/2_{2,V} = -170 \,\mu\text{rad}, \,\Phi/2_{8,V} = 170 \,\mu\text{rad}$ $\sigma_z = 7.61 \text{ cm}, \ \epsilon_n = 2.3 \ \mu\text{m}, \ Q' = 15, \ I_{MO} = -300 \ A, \ C^- = 0.001$ 25ns_2760b_2748_2492_2574_288bpi_13inj_800ns_bs200ns.json. Bunch 150. 65.3026.3026.3006.31165.31365.31265.31265.31065.35165.35 60.329 - ≤4.0 60.323 - 4.2 4.2 4.1 4.4 4.4 54.5 60.321 -60.319 -60.317 -- 5.0 60.315 -- 4.5 60.313 - ≤4.0 60.311 - 4.0 60.309 -Horizontal tune Q_x

/ertical tune Q_v