HL-LHC v1.6. E = 7.0 TeV. $N_b \simeq 2.2 \times 10^{11}$ ppb,

 $L_{1/5} = 2.52 \times 10^{34} \text{cm}^{-2} \text{s}^{-1}, L_2 = 6.87 \times 10^{30} \text{cm}^{-2} \text{s}^{-1}, L_8 = 1.97 \times 10^{33} \text{cm}^{-2} \text{s}^{-1}$ $\beta_{x, 1}^* = 1.1 \text{ m}, \beta_{y, 1}^* = 1.1 \text{ m}, \text{ polarity IP}_{2/8} = 1/1$

 $\Phi/2_{1(V)} = 250$ μrad, $\Phi/2_{5(H)} = 250$ μrad, $\Phi/2_{2,V} = -170$ μrad, $\Phi/2_{8,V} = 170$ μrad $\sigma_z = 7.61$ cm, $\varepsilon_n = 2.3$ μm, 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, 6313, 6312, 6312, 6316, 632, 632, 632, 60.329 -8.0 - 7.5 60.323 - 4160.321 - 4.2 4.4 4.5 4.3 60.319 -60.317 -- 5.0 60.315 -- 4.5 60.313 -60.311 -60.309 -

Horizontal tune Q_x

/ertical tune Q_v