```
HL-LHC v1.6. E = 7.0 \text{ TeV}. CC = -96.6 \mu \text{rad}. N_b \simeq 2.2 \times 10^{11} \text{ ppb},
   L_{1/5} = 5.08 \times 10^{34} \text{cm}^{-2} \text{s}^{-1}, L_2 = 7.24 \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}^* = 0.58 \text{ m}, \beta_{y,1}^* = 0.58 \text{ m}, \text{ 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}, \ \varepsilon_n = 2.3 \ \mu\text{m}, \ Q' = 15, \ I_{MO} = -60.0 \ A, \ C^- = 0.001
   25ns_2760b_2748_2492_2574_288bpi_13inj_800ns_bs200ns.json. Bunch 150.
           65.302 65.302 65.311 65.312 65.312 65.310 65.351 65.352 65.352
60.329 -
                                                                                                                          8.0
60.323 - 4.1 4.2 4.0 4.1 4.6 4.2
60.321 - 42
60.319 -
60.317 - ≤4.0
                                                                                                                        - 5.0
60.315 - 4.0
                                                                                                                        - 4.5
60.313 - 4.0 \le 4.0 \le 4.0 \le 4.0
60.311 - 4.0 4.1
60.309 -
                                             Horizontal tune Q<sub>x</sub>
```

/ertical tune Q_v