```
runIII. E = 6.8 TeV. N_b \simeq 1.25 \times 10^{11} ppb,
               L_{1/5} = 2.01 \times 10^{34} \text{cm}^{-2} \text{s}^{-1}, L_2 = 1.85 \times 10^{30} \text{cm}^{-2} \text{s}^{-1}, L_8 = 2 \times 10^{33} \text{cm}^{-2} \text{s}^{-1}
                                                                         \beta_{x,1}^* = 0.3 \text{ m}, \beta_{x,1}^* = 0.3 \text{ m}, \text{ polarity IP}_{2/8} = 1/1
           \Phi/2_{1(V)} = 160 \,\mu\text{rad}, \,\Phi/2_{5(H)} = 160 \,\mu\text{rad}, \,\Phi/2_{2,V} = 200 \,\mu\text{rad}, \,\Phi/2_{8,V} = 200 \,\mu\text{rad}
                                       \sigma_z = 9.0 \text{ cm}, \ \epsilon_n = 2.5 \ \mu\text{m}, \ Q' = 15.0, \ I_{MO} = -590.0 \ A, \ C^- = 0.0
                                     25ns_2604b_2592_2310_2421_4x48bpi_16inj.json. Bunch 978.
                                                       , 5.30<sup>5</sup>, 30<sup>6</sup>, 5.31<sup>1</sup>, 5.31<sup>2</sup>, 5.31<sup>5</sup>, 5.31<sup>6</sup>, 35<sup>1</sup>, 5.35
                                                $4.5 \( \frac{4.5}{24.5} \) $4.5 \( \xeta 4.5 \) $4
                                                                                                                                                                                                                                                                                                                                 7.0
- 6.5
≤4.5 ≤4.5 ≤4.5 ≤4.5 ≤4.5 ≤4.5 ≤4.5
60.315 - 4.5
                                                                                                                                                                                                                                                                                                                          - 5.0
60.313 - ≤4.5
60.311 - 4.5
60.309 -
                                                                                                                      Horizontal tune Q<sub>x</sub>
```

rertical tune Q<sub>v</sub>