



HL-LHC v1.5. Flat optics. End of levelling. Bunch 1891 (8b4e)

$N_b = 1.4 \times 10^{11}$  ppb,  $\beta_{y,IP1}^* = 7.5$  cm,  $\beta_{x,IP1}^* = 18$  cm,  $\Phi/2_{IP1(H)/5(V)} = 250$   $\mu$ rad, CC ON

$\sigma_z = 7.61$  cm,  $\Phi/2_{IP8,V} = 170$   $\mu$ rad,  $\varepsilon_n = 2.5$   $\mu$ m,  $Q' = 15$ ,  $\{Q_y\} = \{Q_x\} + 0.005$ ,  $C^- = 10^{-3}$

