

# HL-LHC v1.5. Flat optics. End of levelling.

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

$$\text{CC ON}, \sigma_z = 7.61 \text{ cm}, \Phi/2_{\text{IP8}, V} = 170 \mu\text{rad}, \varepsilon_n = 2.5 \mu\text{m}, Q' = 5, I_{\text{MO}} = 60 \text{ A}, C^- = 10^{-3}$$

Bunches sorted by average minimum DA.

