

HL-LHC v1.6. E = 7.0 TeV. $N_b \simeq 2.3 \times 10^{11}$ ppb,

$L_{1/5} = 1.32 \times 10^{34} \text{cm}^{-2} \text{s}^{-1}$, $L_2 = 3.46 \times 10^{30} \text{cm}^{-2} \text{s}^{-1}$, $L_8 = 2 \times 10^{33} \text{cm}^{-2} \text{s}^{-1}$

$\beta_{y,1}^* = 2.8$ m, $\beta_{x,1}^* = 0.7$ m, polarity $\text{IP}_{2/8} = 1/1$

$\Phi/2_{1(\text{H})} = 250$ μrad , $\Phi/2_{5(\text{V})} = 250$ μrad , $\Phi/2_{2,\text{V}} = -170$ μrad , $\Phi/2_{8,\text{V}} = 170$ μrad

$\sigma_z = 7.61$ cm, $\varepsilon_n = 2.3$ μm , $Q' = 15$, $C^- = 0.001$

8b4e_1972b_1960_1178_1886_224bpi_12inj. Bunch 89.

