HL-LHC v1.6. E = 7.0 TeV. CC = −190.0 μrad. $N_b \simeq 1.2 \times 10^{11}$ ppb,

$\beta^*_{x,1} = 0.15$ m, $\beta^*_{y,1} = 0.15$ m, polarity IP$_{2/8}$ = 1/1

, , $\Phi/2_{2,V} = -170$ μrad, $\Phi/2_{8,V} = 170$ μrad

$\sigma_z = 7.61$ cm, $\epsilon_n = 2.5$ μm, $Q' = 15$, $I_{MO} = -50.0$ A, $C^- = 0.001$

25ns_2760b_2748_2492_2574_288bpi_13inj_800ns_bs200ns.json. Bunch 150.