

Injection HL (from run III optics). E = 0.45 TeV. $N_b \simeq 2.3 \times 10^{11}$ ppb,

$\beta_{x,1}^* = 10$ m, $\beta_{y,1}^* = 10$ m, polarity IP_{2/8} = 1/1, phase_change = 1

$\sigma_z = 7.61$ cm, $\epsilon_n = 2.5$ μ m, $Q' = 15.0$, $I_{MO} = -45$ A, $C^- = 0.001$

25ns_2452b_2440_1952_2240_248bpi_12inj. Bunch 1130.

