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 = 0 $\sigma_z=7.61$ 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.

