HL-LHC v1.6, E = 7.0 TeV. $L_2 = 2.5 \times 10^{29} \text{ cm}^{-2} \text{ s}^{-1}, L_8 = 2.1 \times 10^{33} \text{ cm}^{-2} \text{ s}^{-1}$ $PU_{1/5} = 102$, $\beta_{x=1}^* = 0.15$ m, $\beta_{y=1}^* = 0.15$ m, polarity $IP_{2/8} = 1/1$ $\Phi/2_{2 \text{ V}} = -170 \text{ }\mu\text{rad}, \Phi/2_{8 \text{ V}} = 170 \text{ }\mu\text{rad}$ $\sigma_z = 7.61 \text{ cm}, \ \varepsilon_n = 2.5 \ \mu\text{m}, \ Q' = 15, \ I_{MO} = -60.0 \ A, \ C^- = 0.001$ 25ns 2760b 2748 2492 2574 288bpi 13inj 800ns bs200ns converted.json. Bunch 149. uminosity $[10^{34} \, \mathrm{cm}]$ 6.0

1.5 -

1.4 -

1.3

1.2

1.1 -

1.0 -

0.9 -

0.8 -

Bunch intensity (ppb) (1e11)

Crossing angle [mrad] in IP_{1.5}