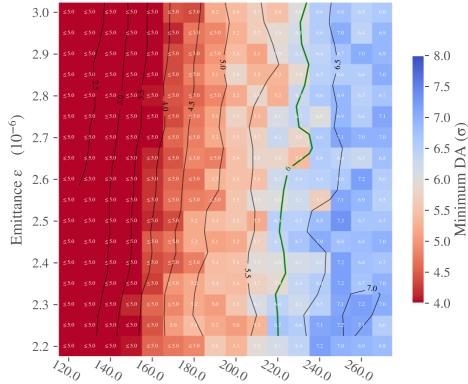
HL-LHC v1.6. E = 7.0 TeV.

$$\begin{split} L_{1/5} = & \, 5.43 \times 10^{34} \text{cm}^{-2} \text{s}^{-1}, \, L_2 = 1.88 \times 10^{29} \text{cm}^{-2} \text{s}^{-1}, \, L_8 = 2.05 \times 10^{33} \text{cm}^{-2} \text{s}^{-1} \\ & \, PU_{1/5} = 141, \, \beta_{x,\,1}^* = 0.15 \, \text{m}, \, \beta_{y,\,1}^* = 0.15 \, \text{m}, \, \text{polarity IP}_{2/8} = 1/1 \\ & \, \Phi/2_{2,\,V} = -170 \, \mu \text{rad}, \, \Phi/2_{8,\,V} = 170 \, \mu \text{rad} \end{split}$$

 $\sigma_z=7.61~cm,\ ,\ Q^{'}=5.0,\ I_{MO}=-60.0~A,\ C^{-}=0.001$ $25ns_2760b_2748_2492_2574_288bpi_13inj_800ns_bs200ns_converted.json. Bunch 149.$



Crossing angle [mrad] in IP_{1,5}