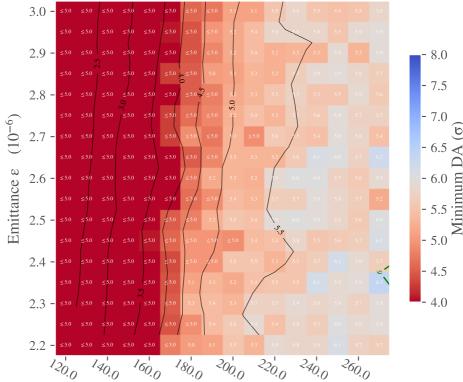
HL-LHC v1.6. E = 7.0 TeV.

$$\begin{split} L_{1/5} = & \, 5.43 \times 10^{34} \text{cm}^{-2} \text{s}^{-1}, \, L_2 = 1.88 \times 10^{29} \text{cm}^{-2} \text{s}^{-1}, \, L_8 = 2.05 \times 10^{33} \text{cm}^{-2} \text{s}^{-1} \\ & \, PU_{1/5} = 141, \, \beta_{x,\,1}^* = 0.15 \, \text{m}, \, \beta_{y,\,1}^* = 0.15 \, \text{m}, \, \text{polarity IP}_{2/8} = 1/1 \\ & \, \Phi/2_{2,\,V} = -170 \, \mu \text{rad}, \, \Phi/2_{8,\,V} = 170 \, \mu \text{rad} \\ & \, \sigma_z = 7.61 \, \text{cm}, \, Q' = 15, \, I_{MO} = -60.0 \, \text{A}, \, C^- = 0.001 \end{split}$$

 $6_z = 7.01 \text{ cm}$ , Q = 13,  $I_{MO} = -00.0 \text{ A}$ ,  $C = 0.001 \text{ 25ns}_2760\text{b}_2748_2492_2574_288\text{bpi}_13\text{inj}_800\text{ns}_\text{bs}200\text{ns}_\text{converted,json}$ . Bunch 149.



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