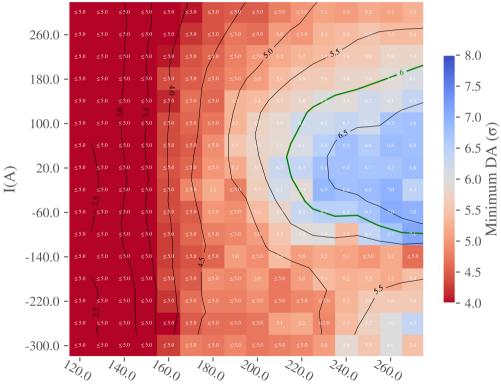
HL-LHC v1.6. E = 7.0 TeV.  $N_b \simeq 9.77 \times 10^{10}$  ppb,  $L_2 = 1.82 \times 10^{29} cm^{-2} s^{-1}, L_8 = 2.05 \times 10^{33} cm^{-2} s^{-1}$  PU<sub>1/5</sub> = 140,  $\beta_{x, 1}^* = 0.15$  m,  $\beta_{y, 1}^* = 0.15$  m, polarity IP<sub>2/8</sub> = 1/1  $\Phi/2_{2, V} = -170$  μrad,  $\Phi/2_{8, V} = 170$  μrad  $\sigma_z = 7.61$  cm,  $\epsilon_n = 2.5$  μm, Q' = 5.0,  $C^- = 0.001$ 

 $25 ns\_2760 b\_2748\_2492\_2574\_288 bpi\_13 inj\_800 ns\_bs 200 ns\_converted. json. \ Bunch\ 149.$ 



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