HL-LHC v1.6. E = 7.0 TeV. CC =  $-190.0~\mu rad$ .  $N_b \simeq 1.2 \times 10^{11}~ppb$ ,  $L_{1/5} = 6.15 \times 10^{34} cm^{-2} s^{-1}$ ,  $L_2 = 2.83 \times 10^{30} cm^{-2} s^{-1}$ ,  $L_8 = 2.01 \times 10^{33} cm^{-2} s^{-1}$   $PU_{1/5} = 159$ ,  $β_{x, 1}^* = 0.15~m$ ,  $β_{y, 1}^* = 0.15~m$ , polarity  $IP_{2/8} = 1/1$  , ,  $Φ/2_{2, V} = -170~\mu rad$ ,  $Φ/2_{8, V} = 170~\mu rad$   $σ_z = 7.61~cm$ ,  $ε_n = 2.5~\mu m$ , Q' = 15,  $I_{MO} = -50.0~A$ ,  $C^- = 0.001$ 

25ns\_2760b\_2748\_2492\_2574\_288bpi\_13inj\_800ns\_bs200ns.json. Bunch 150. 0.0 --100.0 --200.0 --300.0 --400.0 --500.0 --600.0

Xing angle in IP1/5 (μrad)