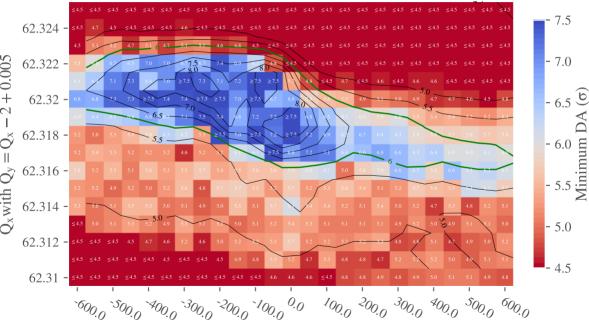
HL-LHC v1.6. E = 7.0 TeV.  $N_b \simeq 2.3 \times 10^{11}$  ppb,  $L_{1/5} = 2.63 \times 10^{34} cm^{-2} s^{-1}, \ L_2 = 1.56 \times 10^{30} cm^{-2} s^{-1}, \ L_8 = 1.51 \times 10^{33} cm^{-2} s^{-1}$   $\beta_{x, 1}^* = 1 \ m, \ \beta_{y, 1}^* = 1 \ m, \ polarity \ IP_{2/8} = 1/1$  Φ/2<sub>1(H)</sub> = 250 μrad, Φ/2<sub>5(V)</sub> = 250 μrad, Φ/2<sub>2,V</sub> = -170 μrad, Φ/2<sub>8,V</sub> = 170 μrad  $\sigma_z = 7.61 \ cm, \ \epsilon_n = 2.0 \ \mu m, \ Q' = 15, \ C^- = 0.001$  8b4e\_1972b\_1960\_1178\_1886\_224bpi\_12inj. Bunch 89.



Octupoles Intensity (A)