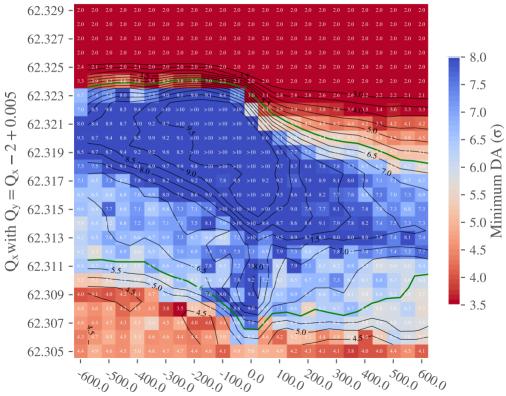
$\begin{aligned} \text{HL-LHC v1.6. E} &= 7.0 \text{ TeV. N}_b \simeq 2.3 \times 10^{11} \text{ ppb,} \\ \text{L}_{1/5} &= 2.04 \times 10^{34} \text{cm}^{-2} \text{s}^{-1}, \text{ L}_2 = 3.46 \times 10^{30} \text{cm}^{-2} \text{s}^{-1}, \text{ L}_8 = 2 \times 10^{33} \text{cm}^{-2} \text{s}^{-1} \\ \beta_{x,\,1}^* &= 1 \text{ m, } \beta_{y,\,1}^* = 1 \text{ m, polarity IP}_{2/8} = 1/1 \end{aligned}$

$$\begin{split} \Phi/2_{1(H)} = 250 \; \mu rad, \; & \Phi/2_{5(V)} = 250 \; \mu rad, \; & \Phi/2_{2,\,V} = -170 \; \mu rad, \; & \Phi/2_{8,\,V} = 170 \; \mu rad \\ & \sigma_z = 7.61 \; cm, \; \epsilon_n = 2.3 \; \mu m, \; & Q^{'} = 15, \; & C^- = 0.001 \\ & 8b4e_1972b_1960_1178_1886_224bpi_12inj. \; Bunch \; 89. \end{split}$$



Octupoles Intensity (A)