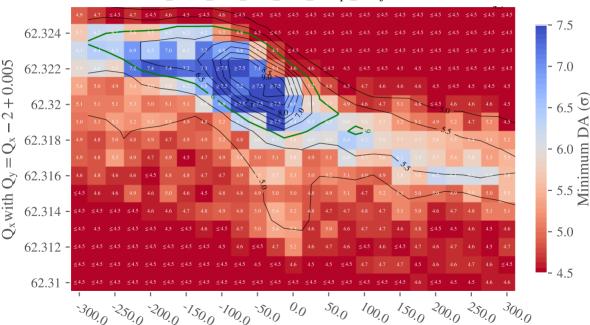
HL-LHC v1.6. E = 7.0 TeV.  $N_b \simeq 2.3 \times 10^{11}$  ppb,  $L_{1/5} = 2.43 \times 10^{34} \text{cm}^{-2} \text{s}^{-1}, \ L_2 = 1.55 \times 10^{30} \text{cm}^{-2} \text{s}^{-1}, \ L_8 = 1.55 \times 10^{33} \text{cm}^{-2} \text{s}^{-1}$   $PU_{1/5} = 89.2, \ \beta_{y,1}^* = 0.7 \ \text{m}, \ \beta_{x,1}^* = 2.8 \ \text{m}, \ \text{polarity IP}_{2/8} = 1/1$   $\Phi/2_{1(H)} = 250 \ \mu\text{rad}, \ \Phi/2_{5(V)} = 250 \ \mu\text{rad}, \ \Phi/2_{2, V} = -170 \ \mu\text{rad}, \ \Phi/2_{8, V} = 170 \ \mu\text{rad}$   $\sigma_z = 7.61 \ \text{cm}, \ \epsilon_n = 2.0 \ \mu\text{m}, \ Q' = 15, \ C^- = 0.001$   $8b4e_1972b_1960_1178_1886_224bpi_12inj. \ \text{Bunch } 89.$ 



Octupoles Intensity (A)