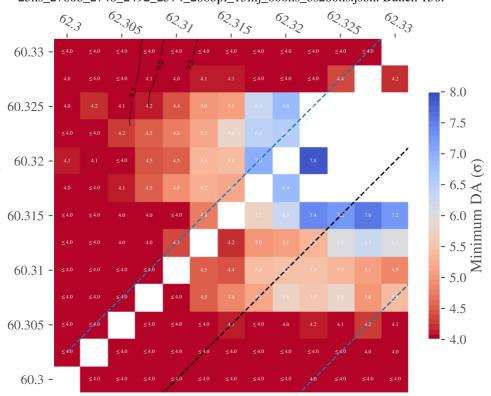
HL-LHC v1.6. E = 7.0 TeV. CC = -190.0 μrad. $N_b \simeq 2.06 \times 10^{11}$ ppb, $L_{1/5} = 5.57 \times 10^{34} \text{cm}^{-2} \text{s}^{-1}$, $L_2 = 4.13 \times 10^{30} \text{cm}^{-2} \text{s}^{-1}$, $L_8 = 1.79 \times 10^{33} \text{cm}^{-2} \text{s}^{-1}$ PU_{1/5} = 146, $\beta_{x, 1}^* = 0.15$ m, $\beta_{y, 1}^* = 0.15$ m, polarity IP_{2/8} = 1/1 Φ/2_{1(H)} = 250 μrad, Φ/2_{5(V)} = 250 μrad, Φ/2_{2, V} = -170 μrad, Φ/2_{8, V} = 170 μrad $\sigma_z = 7.61$ cm, $\epsilon_n = 2.5$ μm, $Q^{'} = 15$, $I_{MO} = -300.0$ A, $C^{-} = 0.001$ 25ns_2760b_2748_2492_2574_288bpi_13inj_800ns_bs200ns.json. Bunch 150.



Vertical tune Q_v

Horizontal tune Q_x