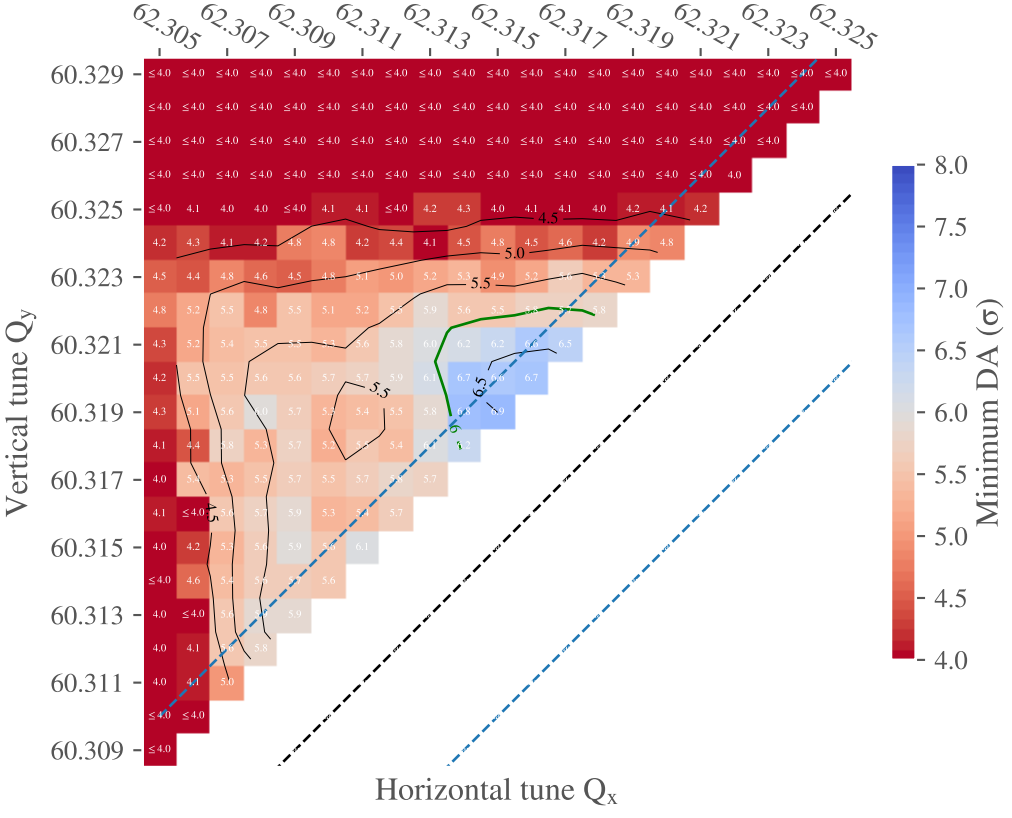HL-LHC v1.6. E = 7.0 TeV. CC = −190.0 μrad. $N_b \simeq 1.2 \times 10^{11}$ ppb,
$L_{1/5} = 5.06 \times 10^{34} cm^{-2}s^{-1}$, $L_2 = 1.62 \times 10^{30} cm^{-2}s^{-1}$, $L_8 = 1.99 \times 10^{33} cm^{-2}s^{-1}$
$PU_{1/5} = 148$, $\beta^*_{x,1} = 0.15$ m, $\beta^*_{y,1} = 0.15$ m, polarity $IP_{2/8} = 1/1$
$\Phi/2_{1(H)} = 250$ μrad, $\Phi/2_{5(V)} = 250$ μrad, $\Phi/2_{2,V} = -170$ μrad, $\Phi/2_{8,V} = 170$ μrad
$\sigma_z = 7.61$ cm, $\varepsilon_n = 2.5$ μm, $Q' = 15$, $I_{MO} = -60.0$ A, $C^- = 0.001$
25ns_2464b_2452_1842_1821_236bpi_12inj. Bunch 411.