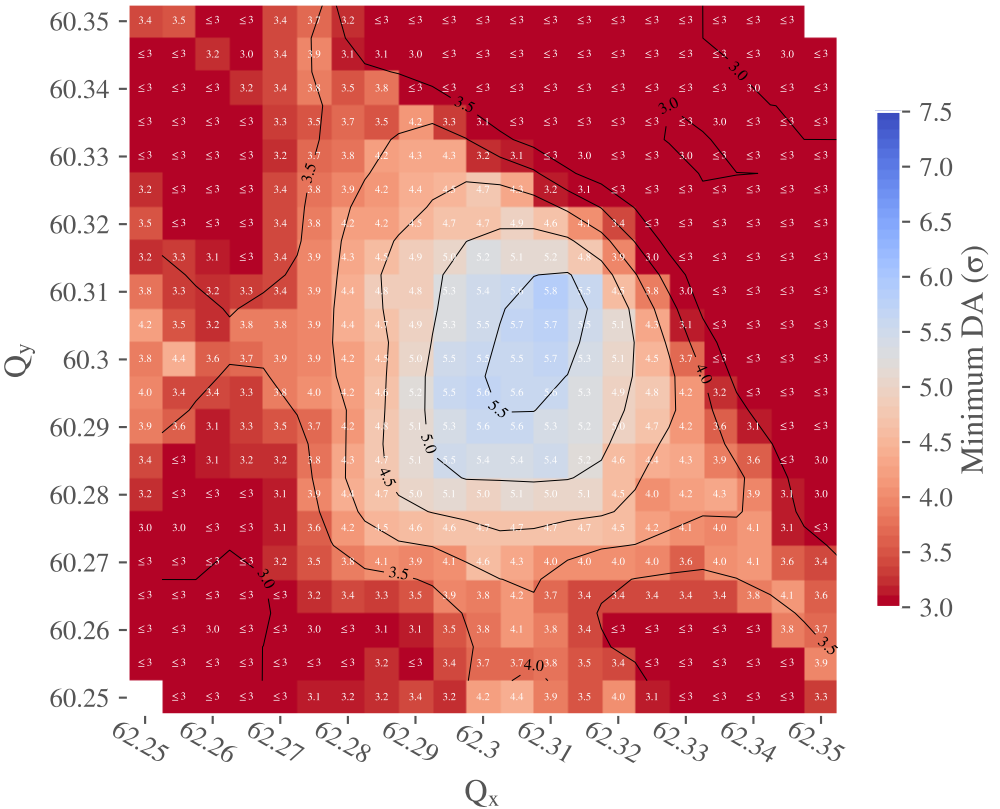Injection HL (from run III optics). E = 0.45 TeV. $N_b \simeq 2.3 \times 10^{11}$ ppb,
$\beta^*_{x,1} = 10$ m, $\beta^*_{y,1} = 10$ m, polarity $IP_{2/8} = 1/1$, phase_change = 1
$\sigma_z = 7.61$ cm, $\varepsilon_n = 2.5$ μm, $Q' = 15.0$, $I_{MO} = -45$ A, $C^- = 0.001$
25ns_2452b_2440_1952_2240_248bpi_12inj. Bunch 1130.