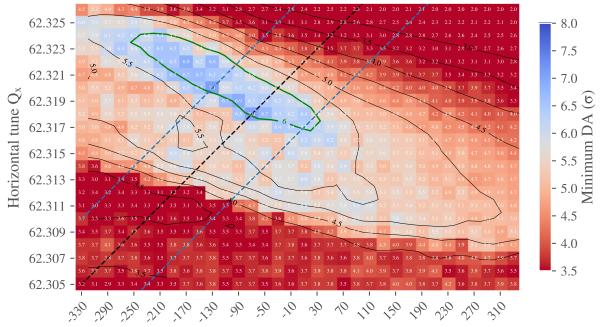
HL-LHC v1.5. Flat optics. End of levelling.

 $N_b = 1.4 \times 10^{11} \text{ppb}, \ \beta_{y, \, \text{IP1}}^* = 7.5 \text{ cm}, \ \beta_{x, \, \text{IP1}}^* = 18 \text{ cm}, \ \Phi/2_{\text{IP1(H)/5(V)}} = 250 \text{ µrad, CC ON}$  $\sigma_z = 7.61 \text{ cm}, \ \Phi/2_{\text{IP8, V}} = 170 \text{ µrad}, \ \epsilon_n = 2.5 \text{ µm}, \ Q' = 15, \ \{Q_y\} = \{Q_x\} + 0.005, \ C^- = 10^{-3} \text{ multiple}$ 



Current  $I_{oct}(A)$