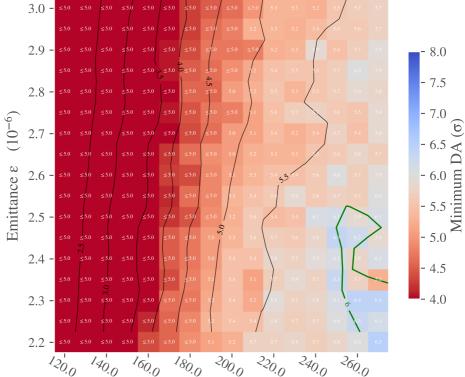HL-LHC v1.6. E = 7.0 TeV. $N_b \simeq 9.26 \times 10^{10}$ ppb,
$L_2 = 1.78 \times 10^{29} \text{cm}^{-2}\text{s}^{-1}$, $L_8 = 2.05 \times 10^{33} \text{cm}^{-2}\text{s}^{-1}$
$PU_{1/5} = 142$, $\beta^*_{x,1} = 0.15$ m, $\beta^*_{y,1} = 0.15$ m, polarity $IP_{2/8} = 1/1$
$\Phi/2_{2,V} = -170$ μrad, $\Phi/2_{8,V} = 170$ μrad
$\sigma_z = 7.61$ cm, , $Q' = 15$, $I_{MO} = 60.0$ A, $C^- = 0.001$
25ns_2760b_2748_2492_2574_288bpi_13inj_800ns_bs200ns_converted.json. Bunch 149.