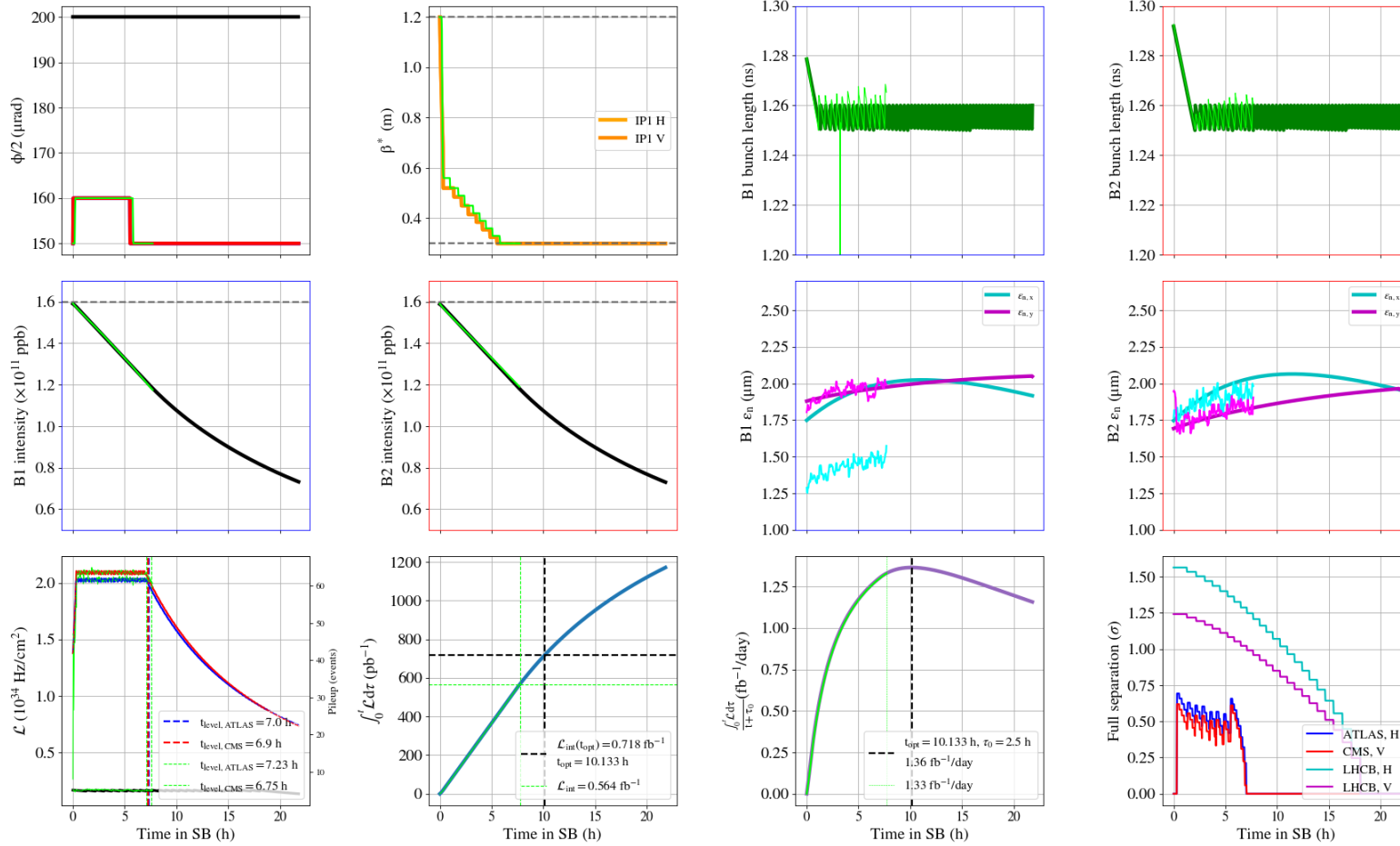


# 30-22 cm segment

# 2024 reference fill 9905

Fill 9905



# Beam-beam limit

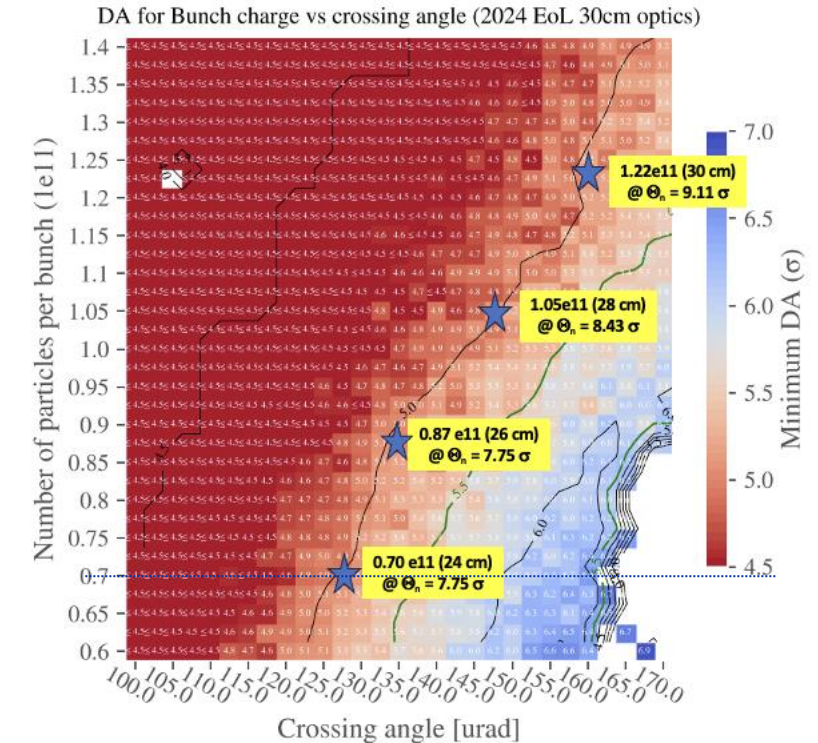
From S. Fartoukh

$\beta^*$ [cm]	X-angle [urad]	X-angle [ $\sigma$ ] @ $\gamma_E=2.5 \mu\text{m}$	IR1 aperture [ $\sigma$ ] @ $\gamma_E=3.5 \mu\text{m}$ (worst case)	Max allowed TCT gap [ $\sigma$ ] in IR1 @ $\gamma_E=3.5 \mu\text{m}$	TCT retraction w.r.t. D1 [ $\sigma$ ] in IR1 (worst case)	Intensity range [ $10^{11}$ p/b] w/o wire (& $MO>0$ ) <b>PRELIMINARY</b>
30	<del>156.0</del>	9.11	9.09	8.09	1.00	1.22 $\rightarrow$ 1.05
28	<del>153.2</del>	8.43	8.93	7.96	0.97	1.05 $\rightarrow$ 0.87
26	146.1	7.75	8.76	7.83	0.93	0.87 $\rightarrow$ 0.70
24	138.8	7.07	8.56	7.67	0.89	0.70 $\rightarrow$ ??
22	131.0	6.38	8.35	<b>7.50</b>	0.85	??
20	122.8	<u>5.71</u>	8.11	<u>7.29</u>	0.82	??

**20 cm probably not reachable for beam-beam and/or aperture**

3

C. Droin



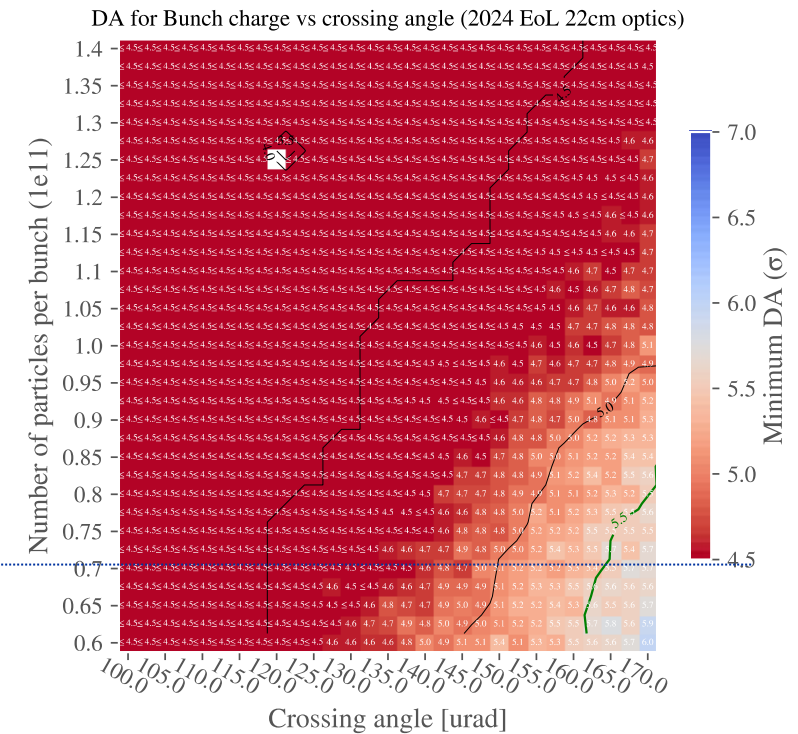
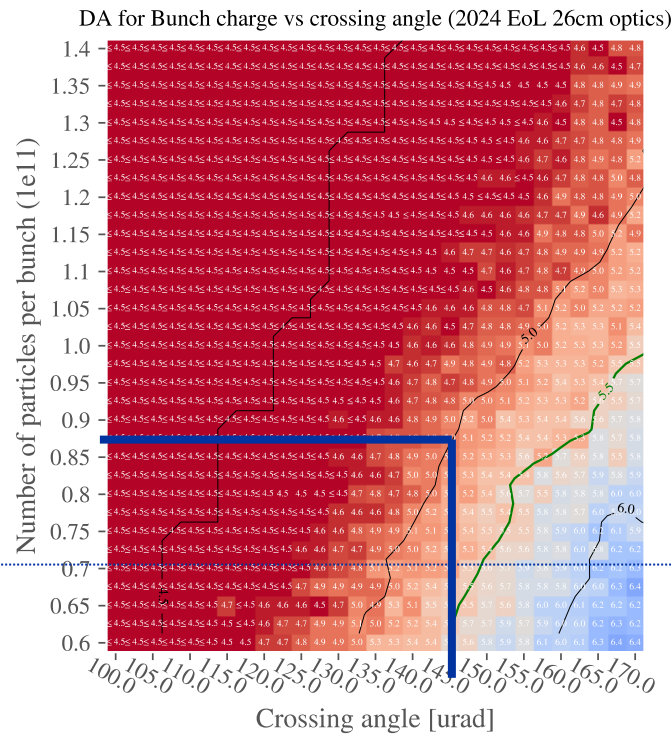
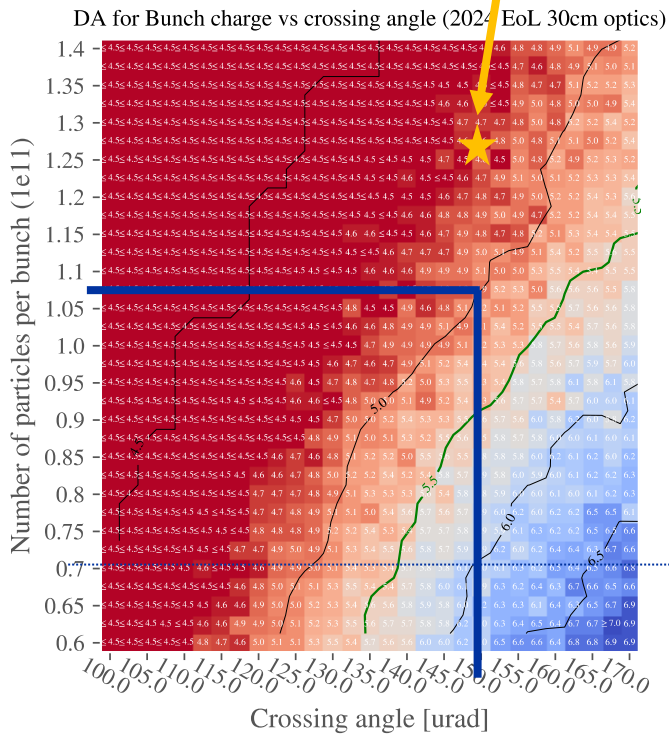
loct=300 A, 160  $\mu\text{rad}$ , wire OFF  
Chromaticity 15, optimized working point

# DA 30cm, 26 cm, 22 cm

C. Droin

Ioct=300 A, wire OFF  
Chromaticity 15, optimized working point

Not exactly here as octupoles 400A & chroma at 8



Not possible from BB point of view

# Leveling on PU without BB limit

