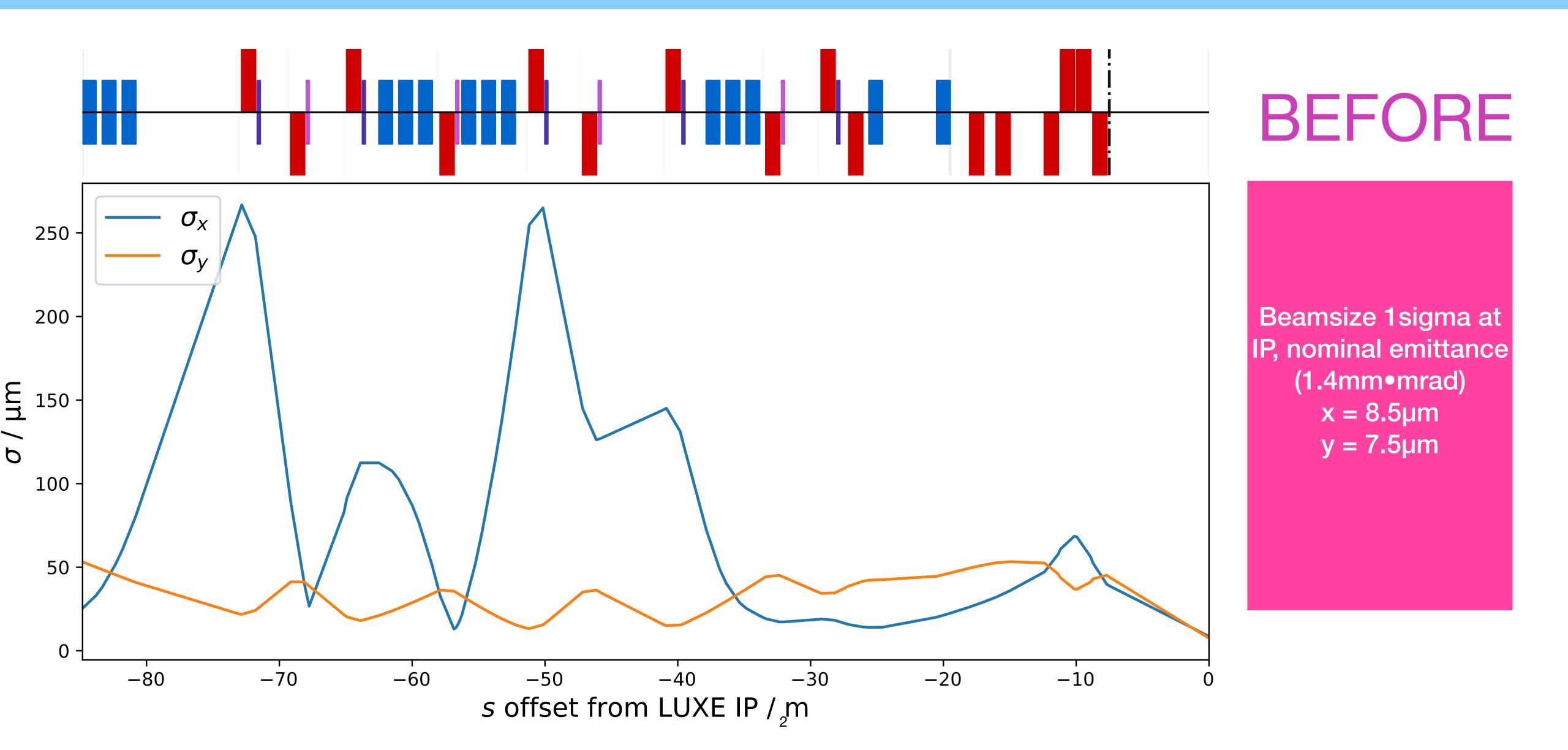
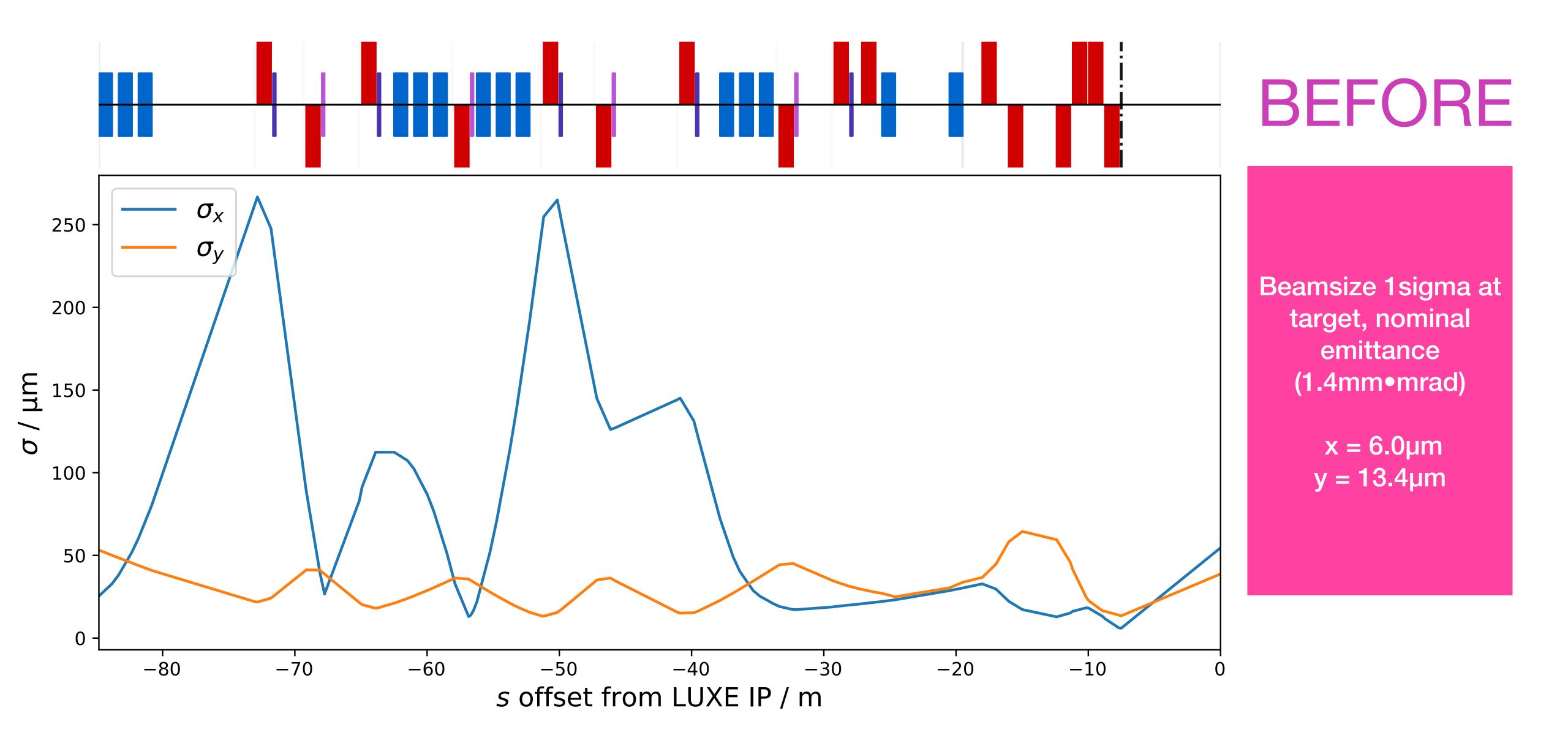
Overview

- 2 pairs of accelerator optics plots up to the IP and target.
 - First pair is the previously shown design
 - Latter pair is the more recent design.

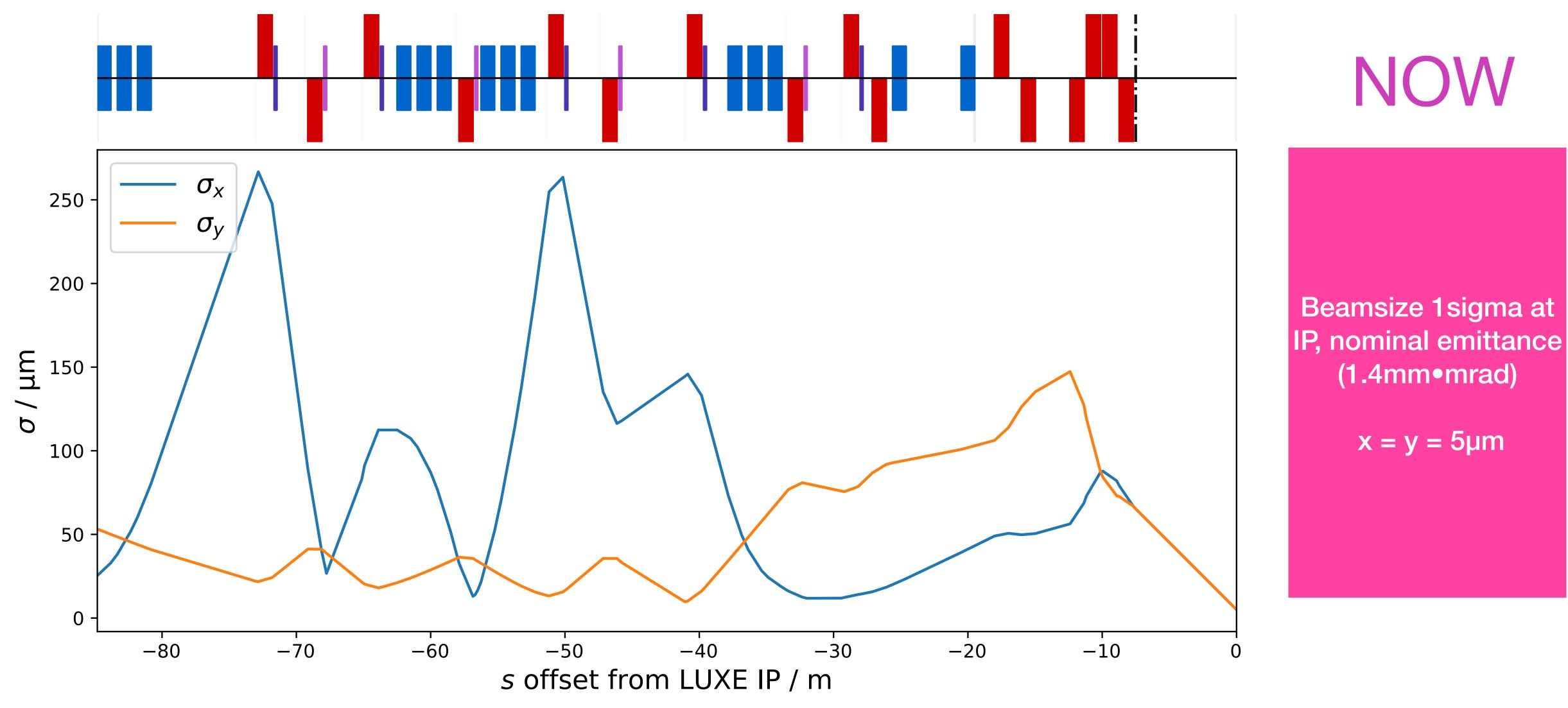
T20 with Final Focus transverse beam sizes to IP



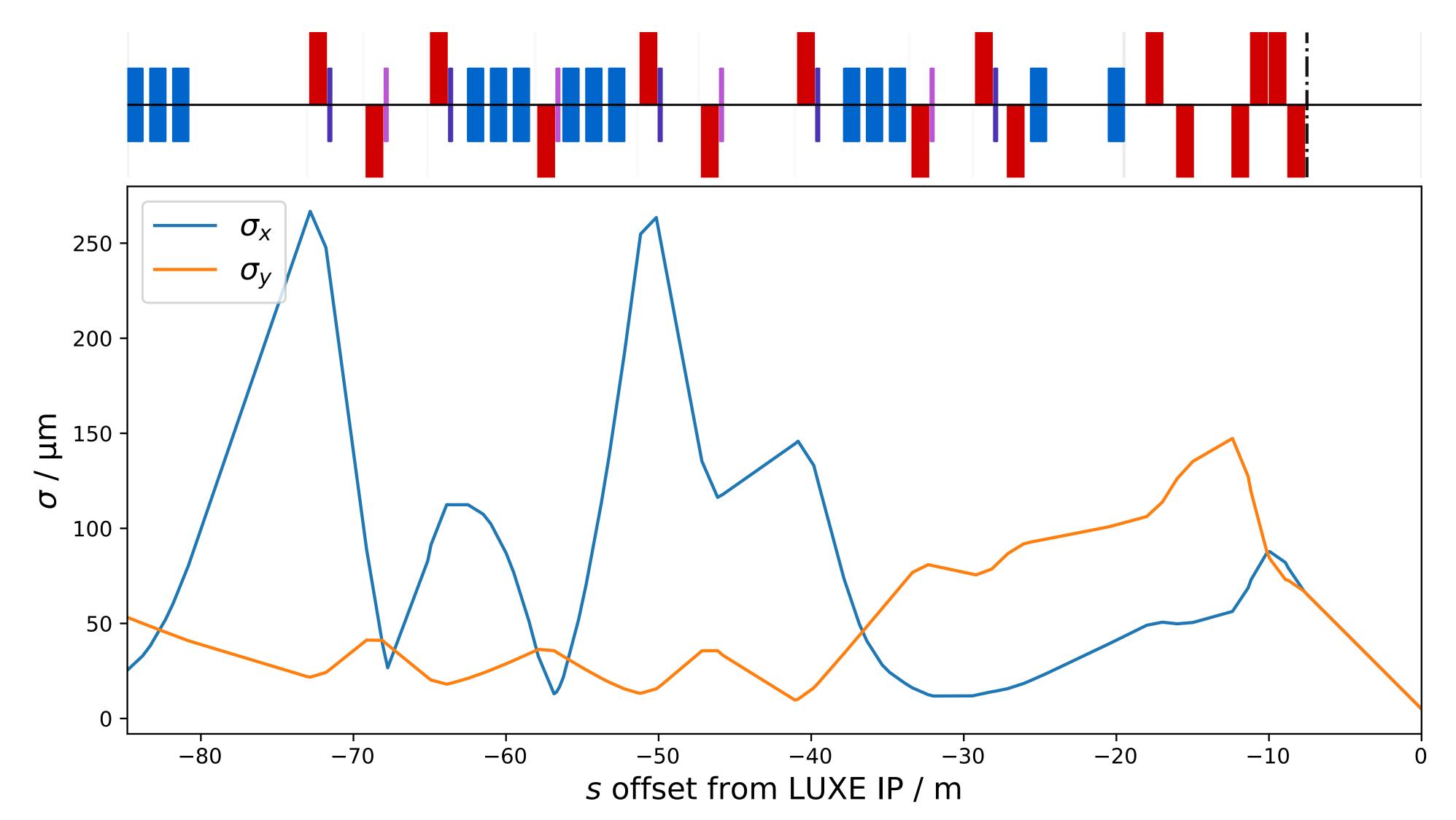
T20 with Final Focus transverse beam sizes to TARGET



T20 with Final Focus transverse beam sizes to IP



T20 with Final Focus transverse beam sizes to TARGET



NOW

Beamsize 1sigma at IP, nominal emittance (1.4mm•mrad)

 $x = 5.0 \mu m$ y = 5.4 \(\mu m \)

imperfect vertical due to slight unclosed dispersion

Summary / Outstanding Questions

- How close one can get the last quadrupole to the target (currently: 0.2m)
- How this stronger focus to the IP is tolerant to energy errors and magnet misalignments.
- Emittance preservation through the arc.