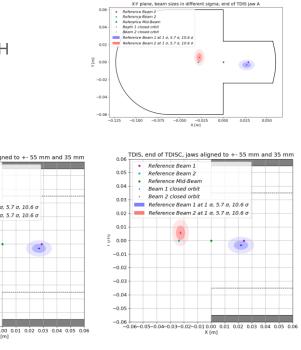
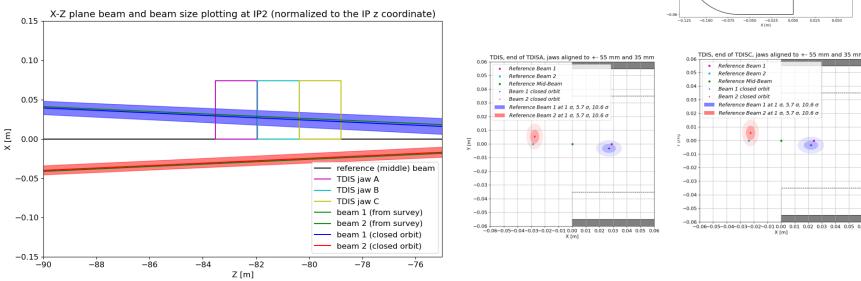
TDIS change of parking: aperture considerations for protons

S. Lampaki, R. De Maria

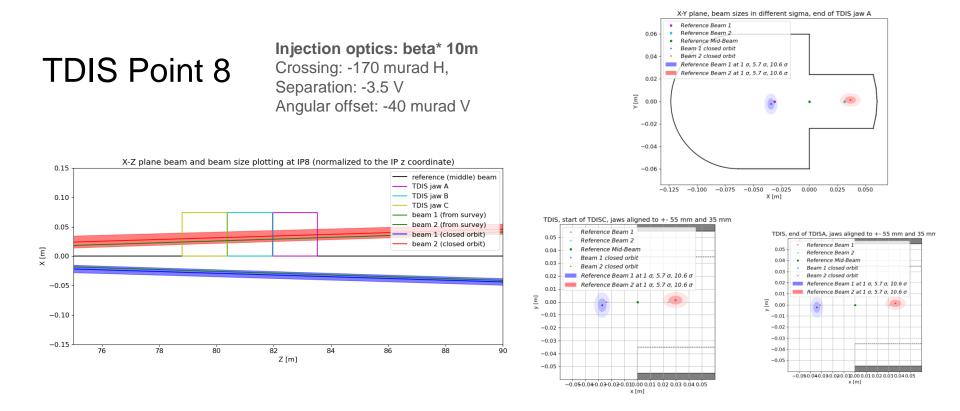
TDIS Point 2

Injection optics, beta*=10 m Crossing: 170 murad V, Separation: -3.5 H Angular offset: 40 murad H



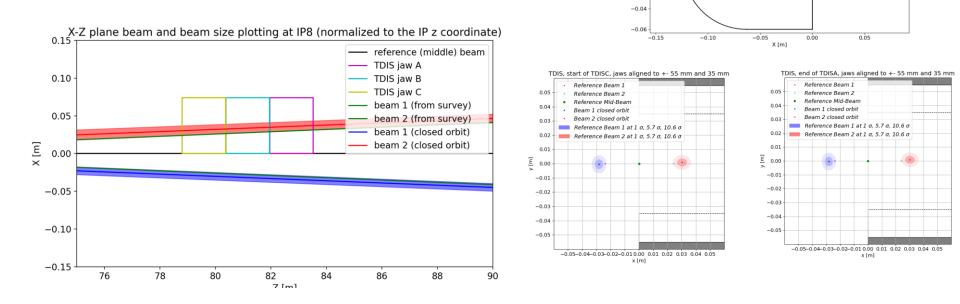


Tip of jaw, closer to Beam 1 and 2, but not significantly so. At flat top, emittance reduces, and beta* stays the same, larger aperture margin in other configurations.



TDIS Point 8

pp 6.8 TeV beta*=2.0m Crossing: -200 murad H, Separation: -1.0 V Angular offset: 0 murad V



X-Y plane, beam sizes in different sigma, start of TDIS jaw C

...

0.06

0.04

0.02

-0.02

Ē 0.00

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Reference Beam 1

Reference Beam 2 Reference Mid-Beam

Beam 1 closed orbit

Beam 2 closed orbit

Reference Beam 1 at 1 σ, 5.7 σ, 10.6 σ

Reference Beam 2 at 1 σ, 5.7 σ, 10.6 σ

