

Summary optics results – Mei Bai

- For dAu81, the measure beta* and location of the waist at PHENIX is
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- Yellow H: beta*= 0.75 ± 0.03 m, waist= 0.17 ± 0.03 m
- Yellow V: beta*= 0.93 ± 0.05 m, waist= -0.22 ± 0.04 m
- Blue H: beta*= 0.90 ± 0.02 m, waist= -0.33 ± 0.05 m
- Blue V: beta*= 0.95 ± 0.04 m, waist= -0.36 ± 0.05 m

For the beta* and waist measurement at STAR, the location of the waist varies from ± 0.6 m from shot to shot. This has been consistent for all the measurement both blue and yellow. Not sure whether this has anything to do with the bpm timing. Discussed with Todd, he did point out that for IP6, the Q1 bpm pair is not the same turn. Anyway, this is still under investigation. Nevertheless, would be great to cross check the IP8 measurement with the traditional varying quad method.