

\*\*\*\*\* Summary for 'm4U-jb5' \*\*\*\*\*

29-Jul-2024 03:55:24

Energy: ### 3.0 GeV

Circumference: ## 528.0 m

Full tunes H/V: ## 58.29 / 18.13

Momentum Compaction Factor: # 5.98e-05

Chromaticity H: ##-0.00

Chromaticity V: ##-0.00

Radiation Loss: ## 477.1 keV

Natural Energy Spread: # 0.09 %

Natural Emittance: ## 52.0 pmrad

RF Voltage: # 1.8 MV

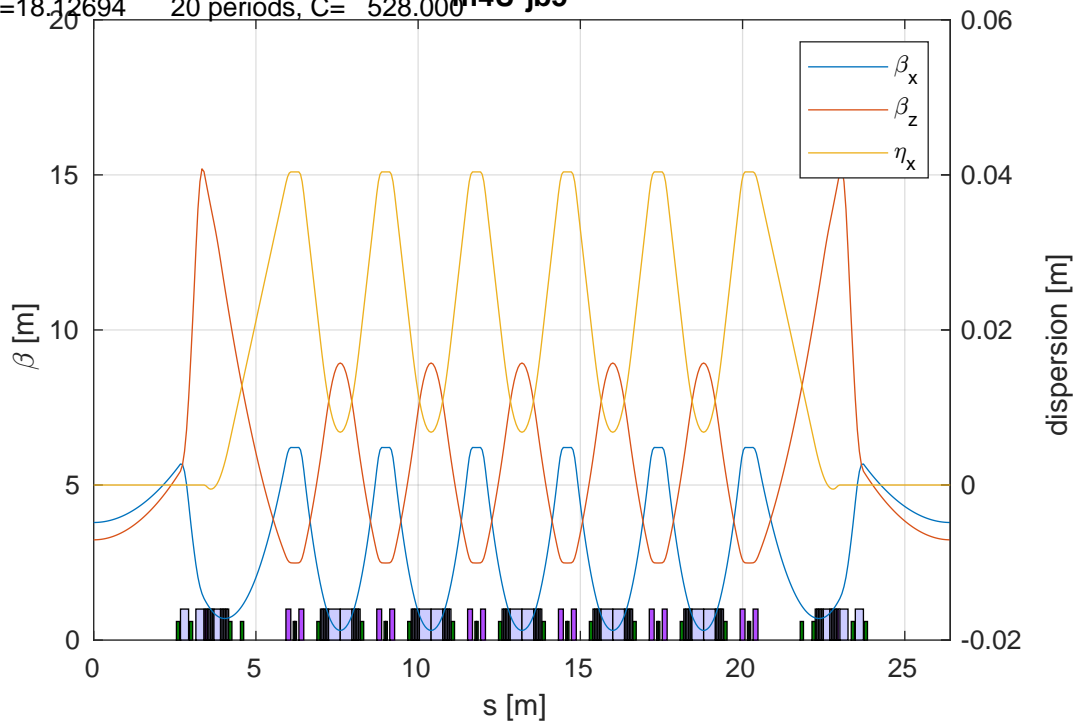
Achromat natural chromaticities: H/V## -4.50 / -2.67

Achromat tunes H/V: ## 2.91 / 0.91

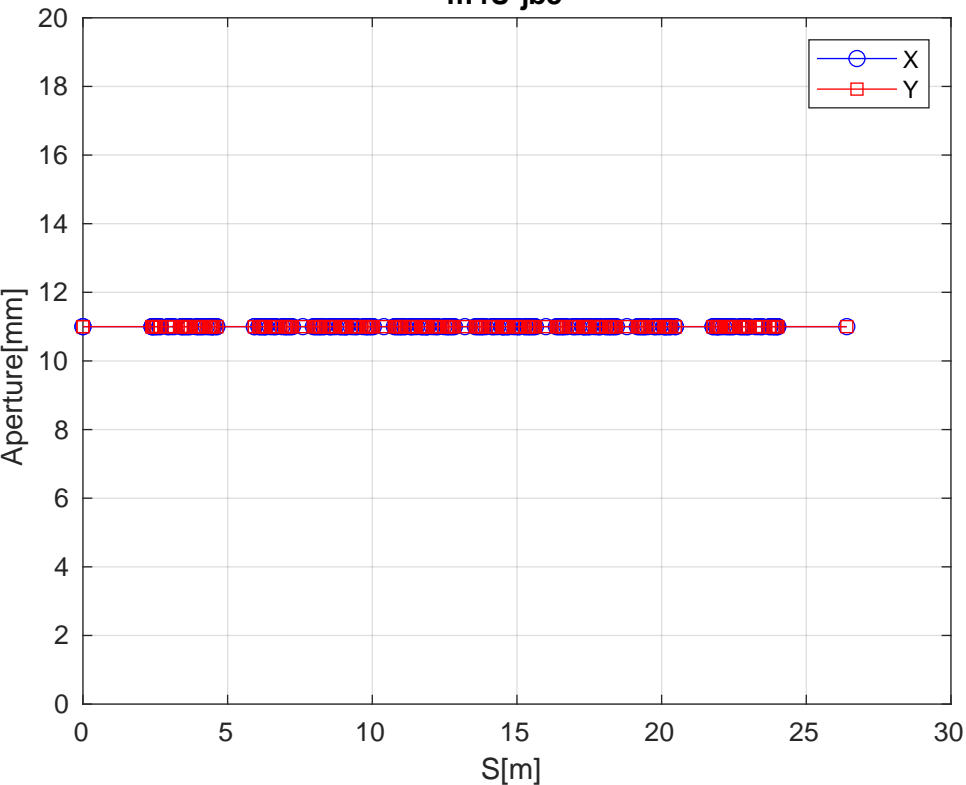
$\nu_x = 58.29128$  $\delta p/p = 0.000$  $\nu_z = 18.12694$ 

20 periods, C= 528.000

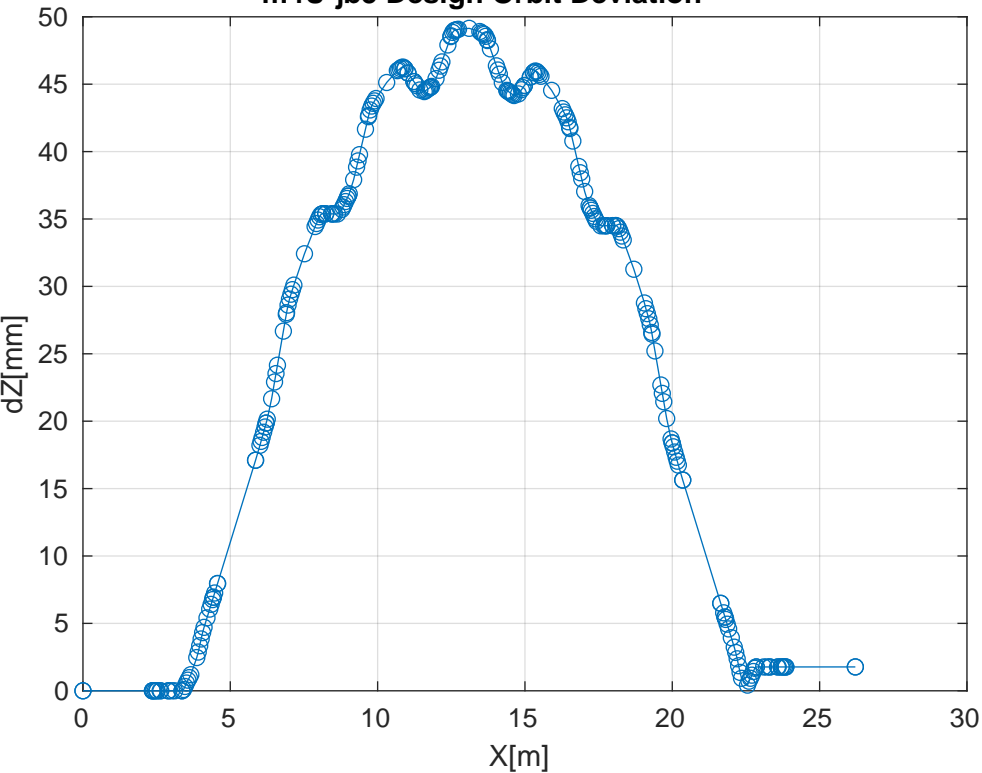
m4U-jb5



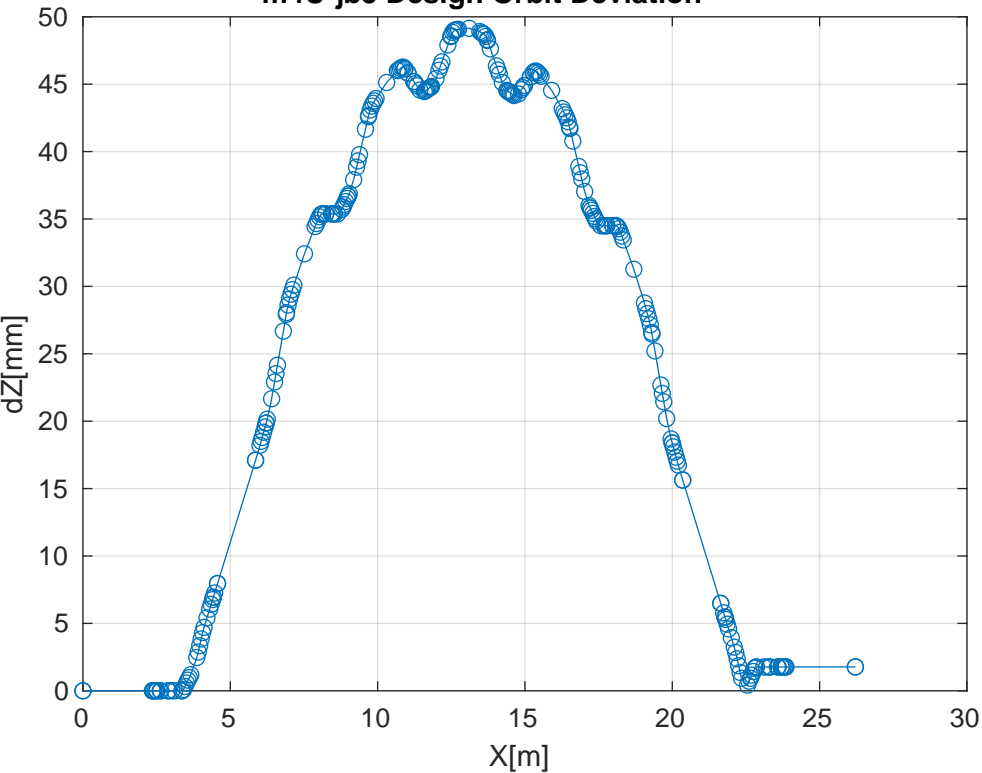
m4U-jb5



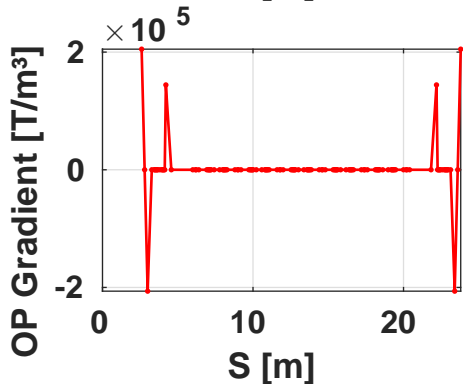
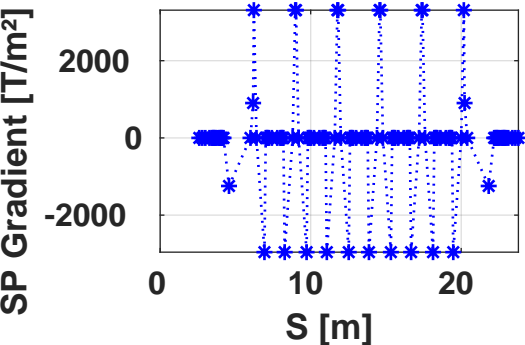
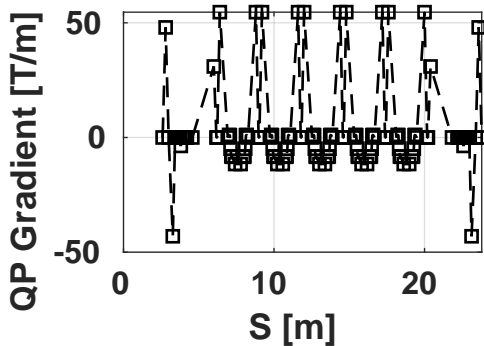
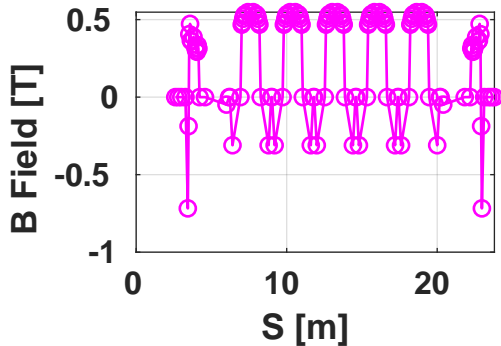
m4U-jb5 Design Orbit Deviation



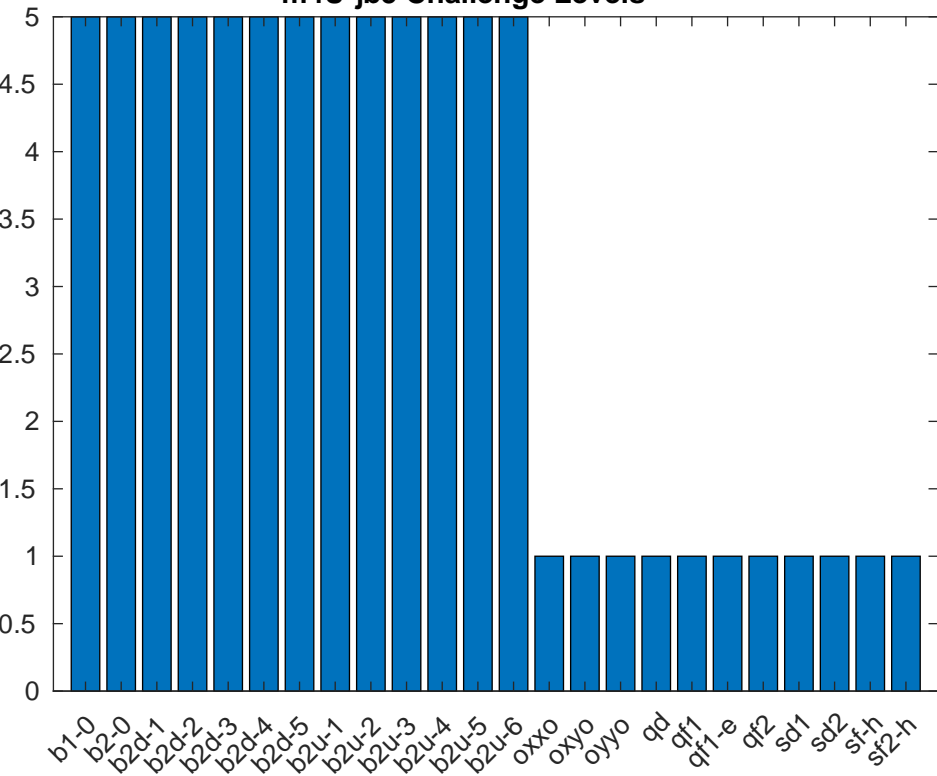
m4U-jb5 Design Orbit Deviation



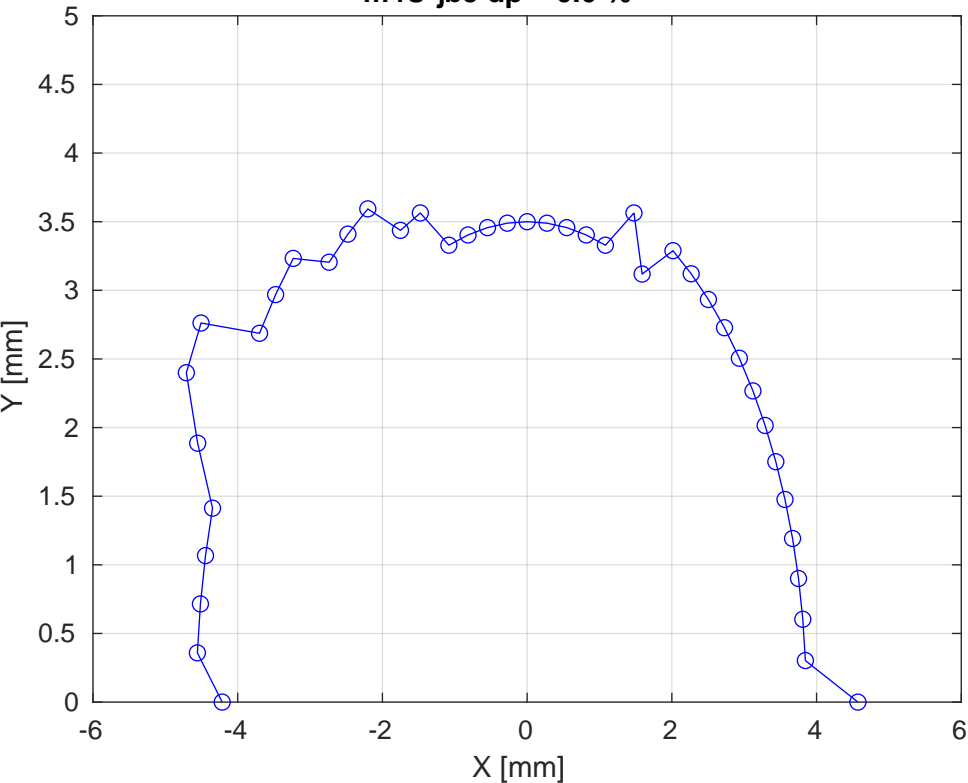
m4U-jb5



m4U-jb5 Challenge Levels

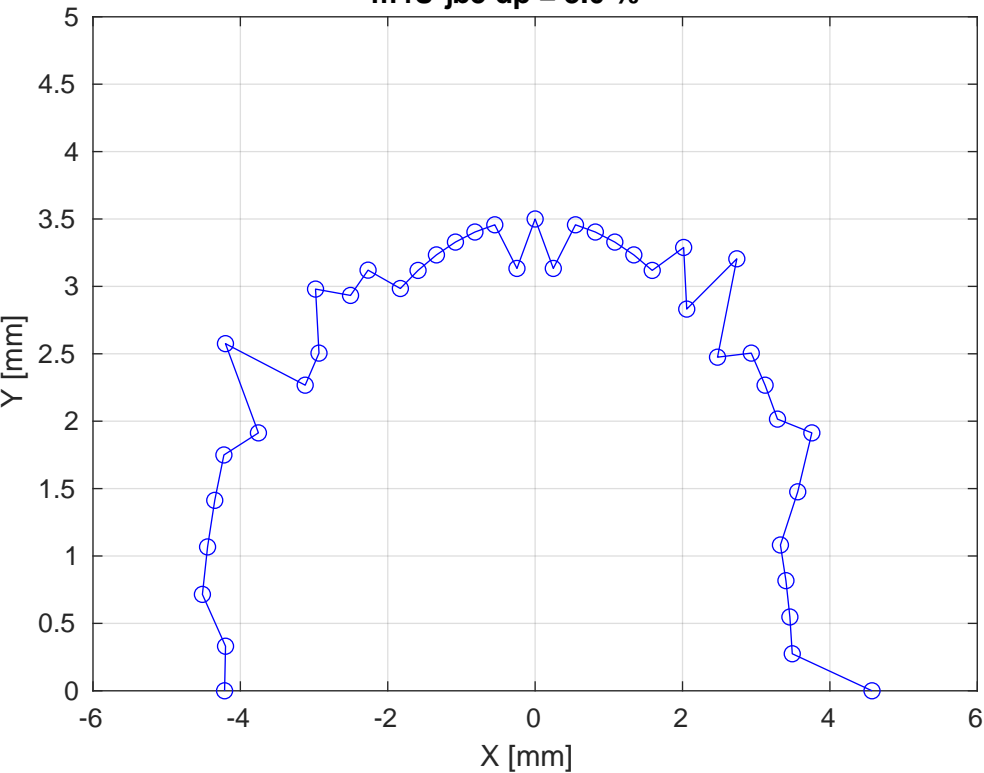


m4U-jb5 dp = 0.0 %

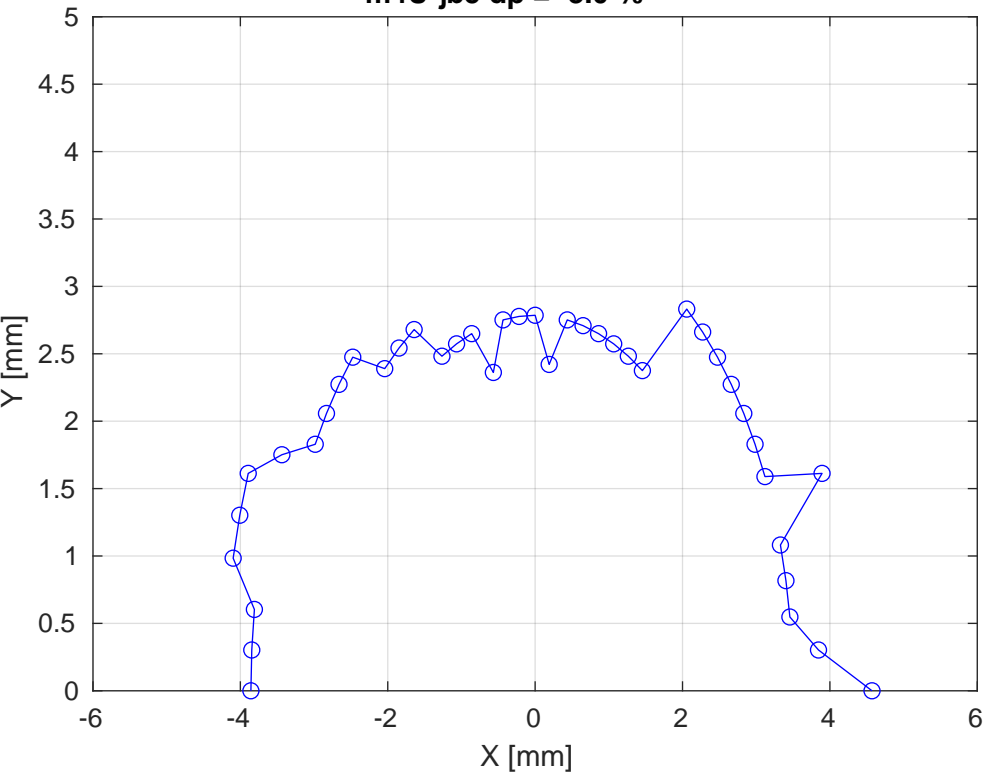




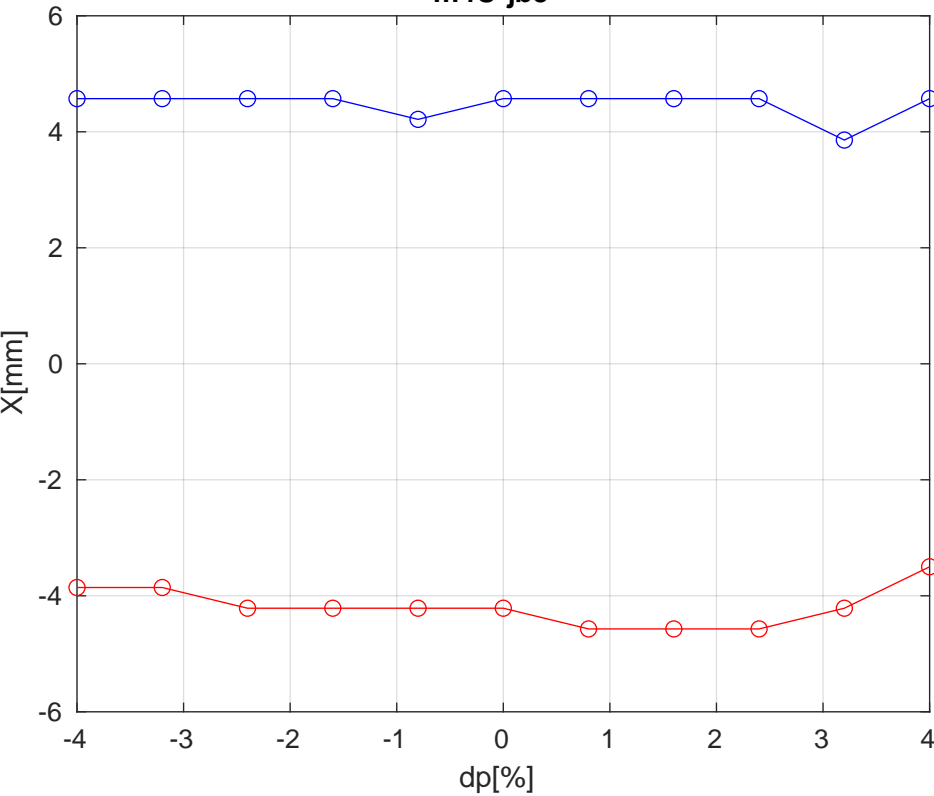
m4U-jb5 dp = 3.0 %



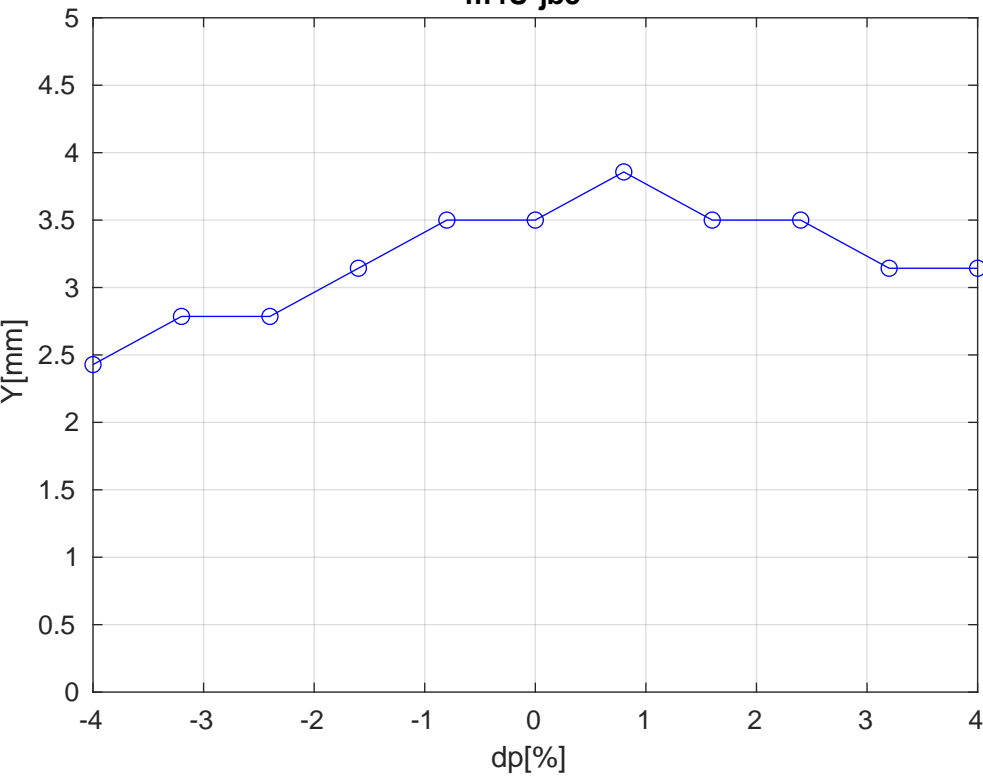
m4U-jb5 dp = -3.0 %



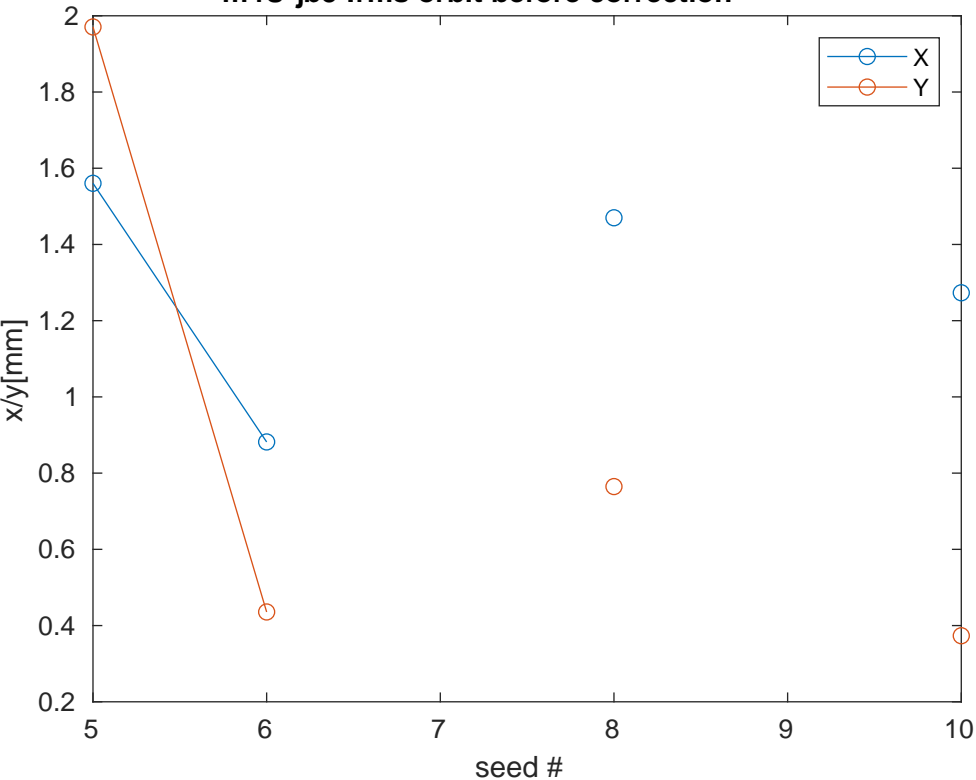
m4U-jb5



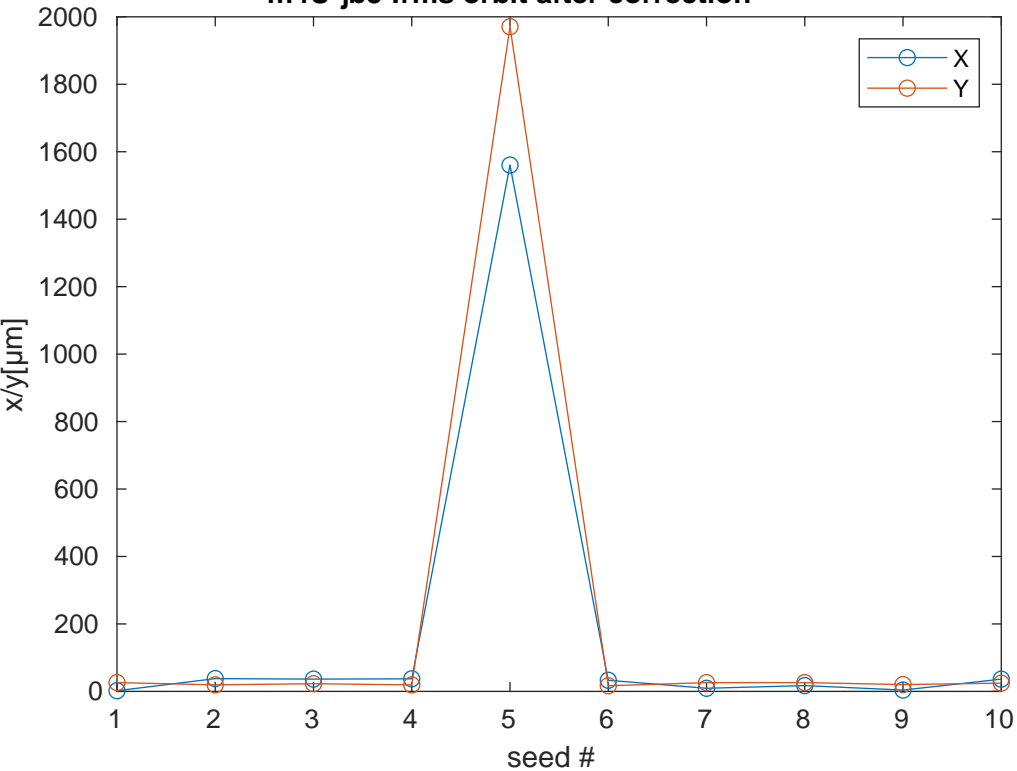
m4U-jb5



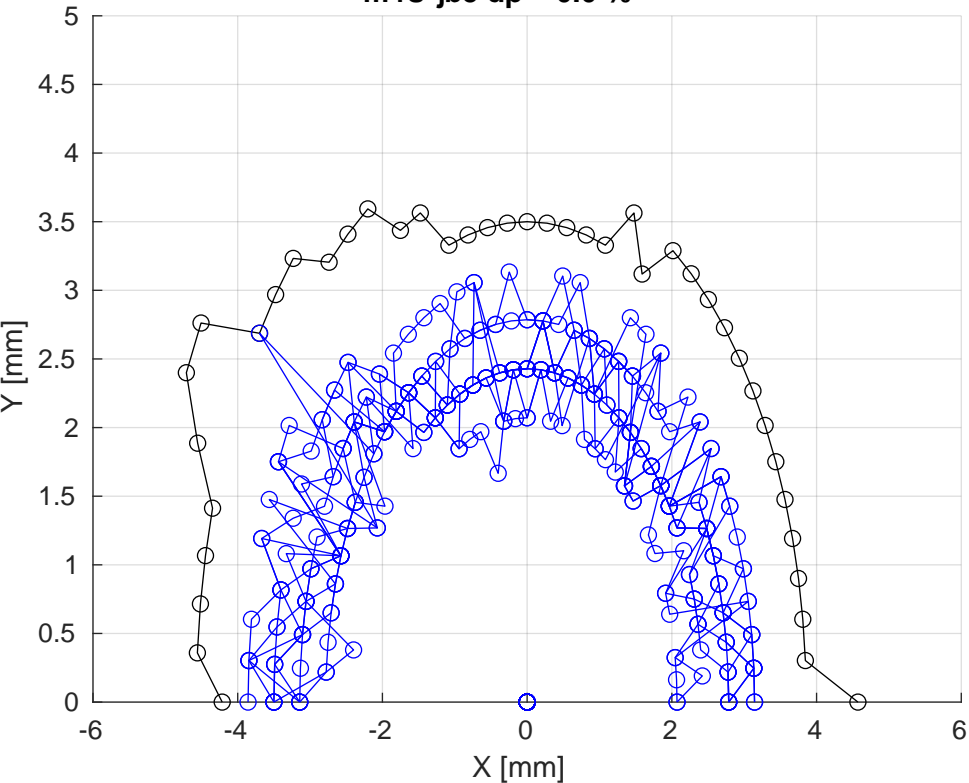
m4U-jb5 :rms orbit before correction



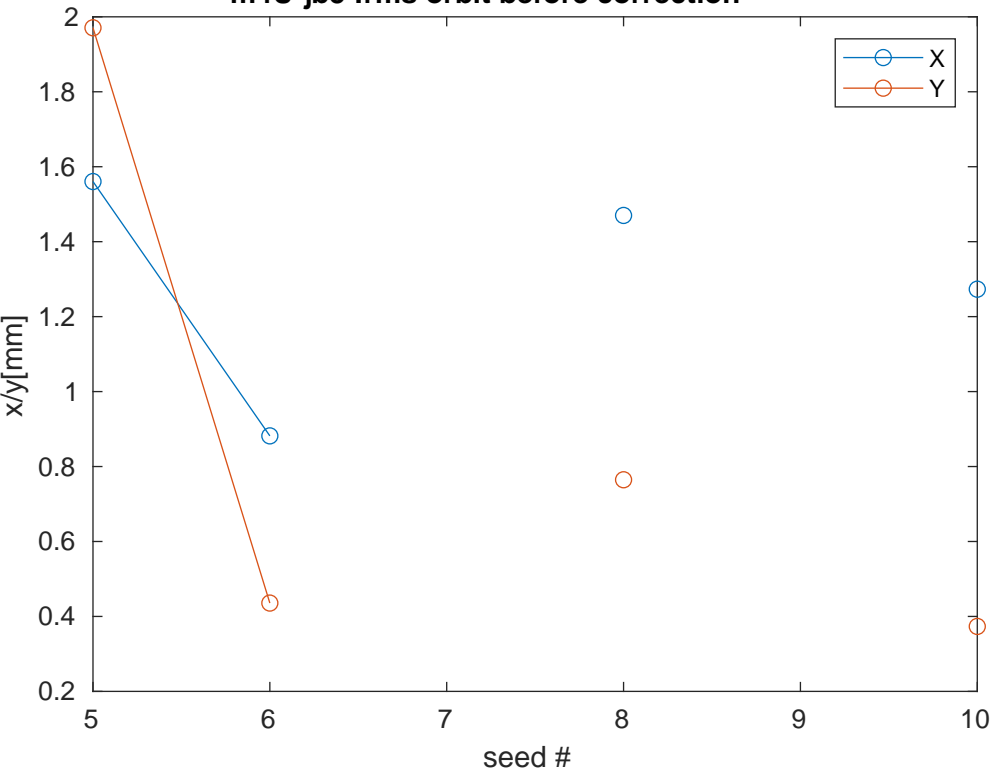
m4U-jb5 :rms orbit after correction



m4U-jb5 dp = 0.0 %

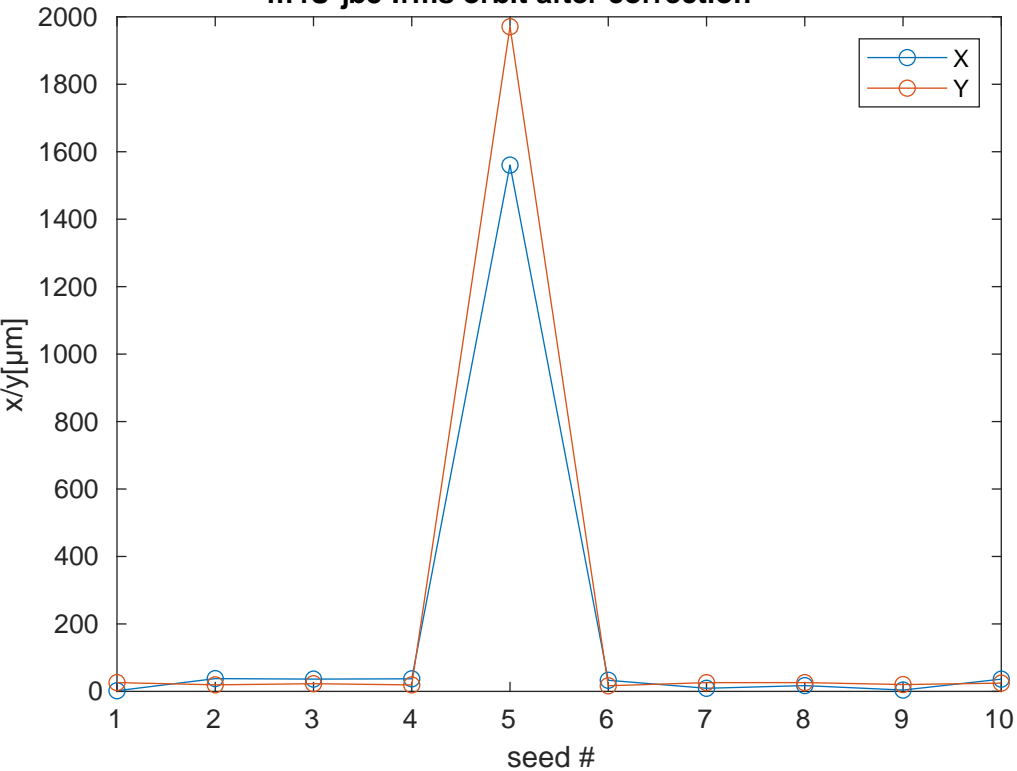


m4U-jb5 :rms orbit before correction

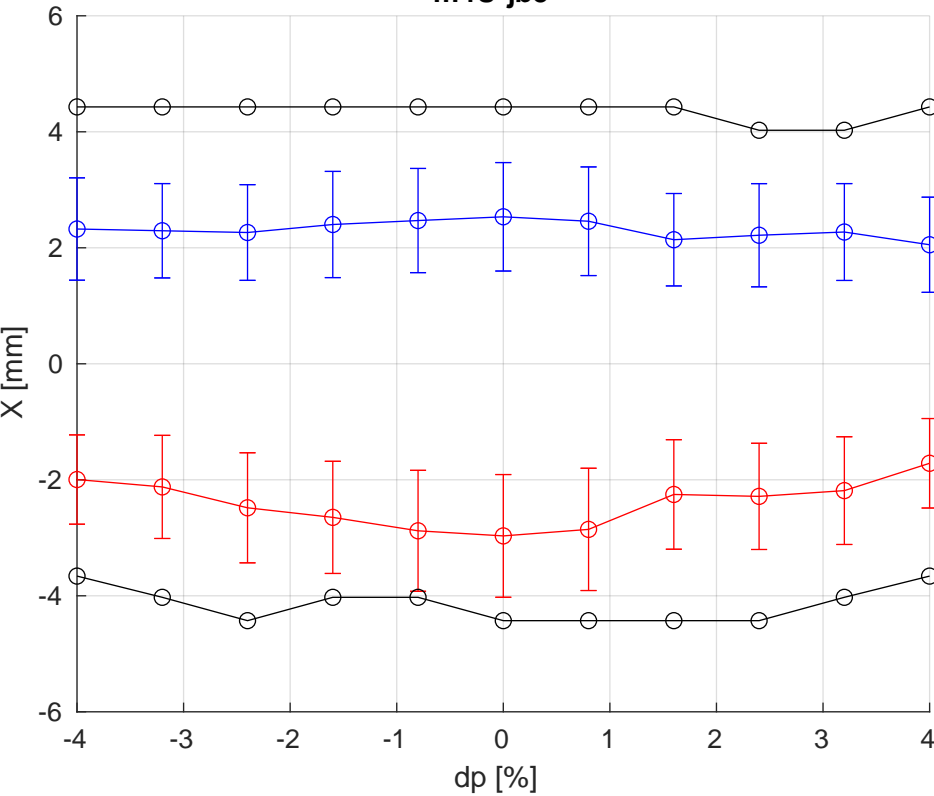




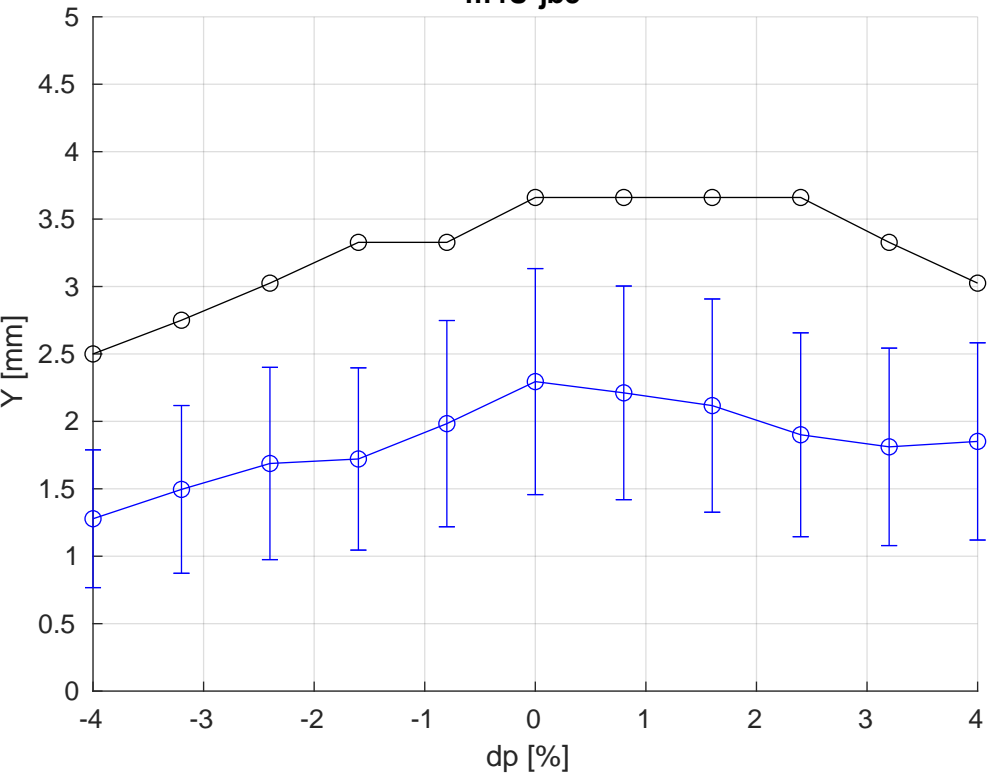
m4U-jb5 :rms orbit after correction



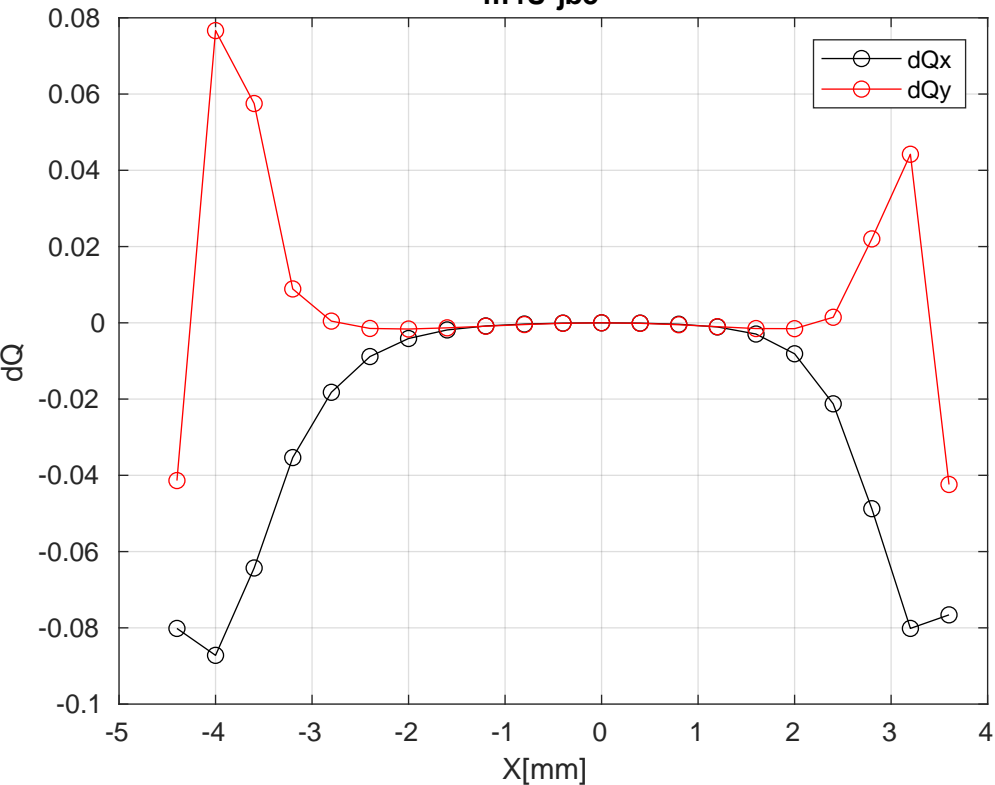
# m4U-jb5



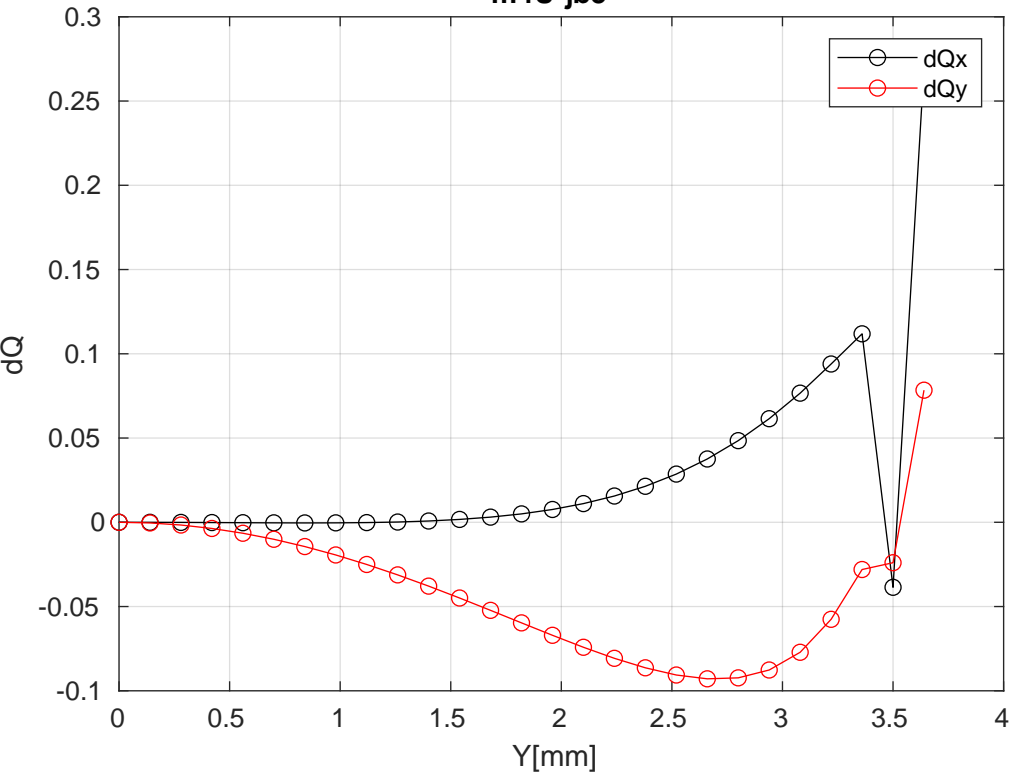
m4U-jb5



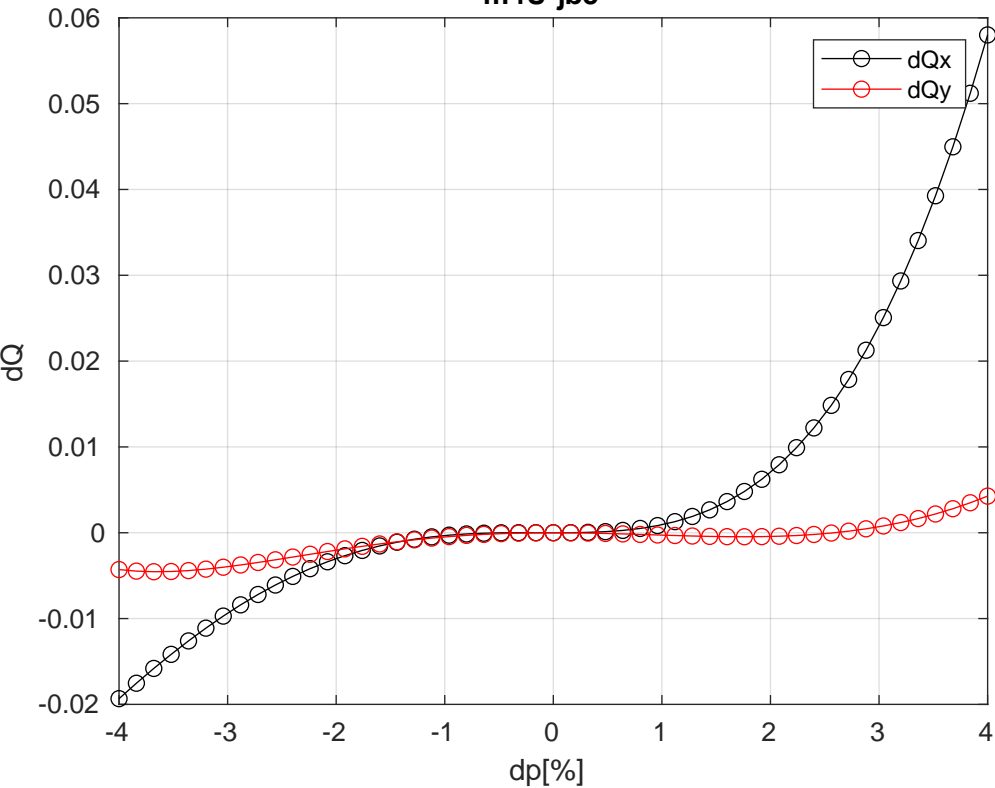
## m4U-jb5



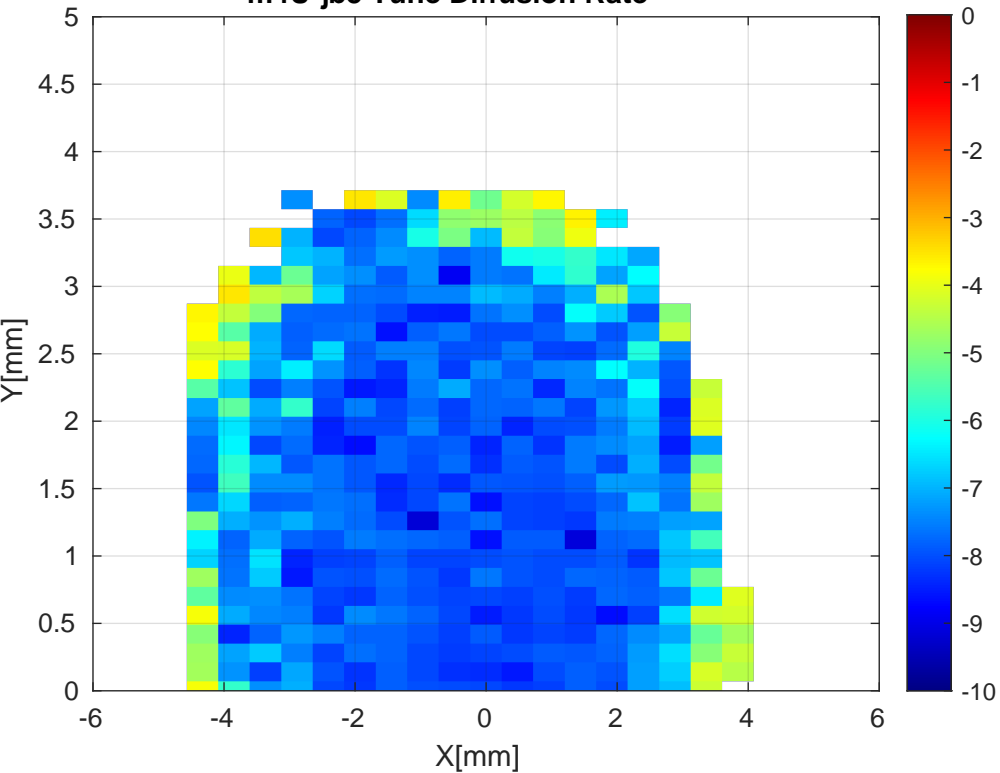
m4U-jb5



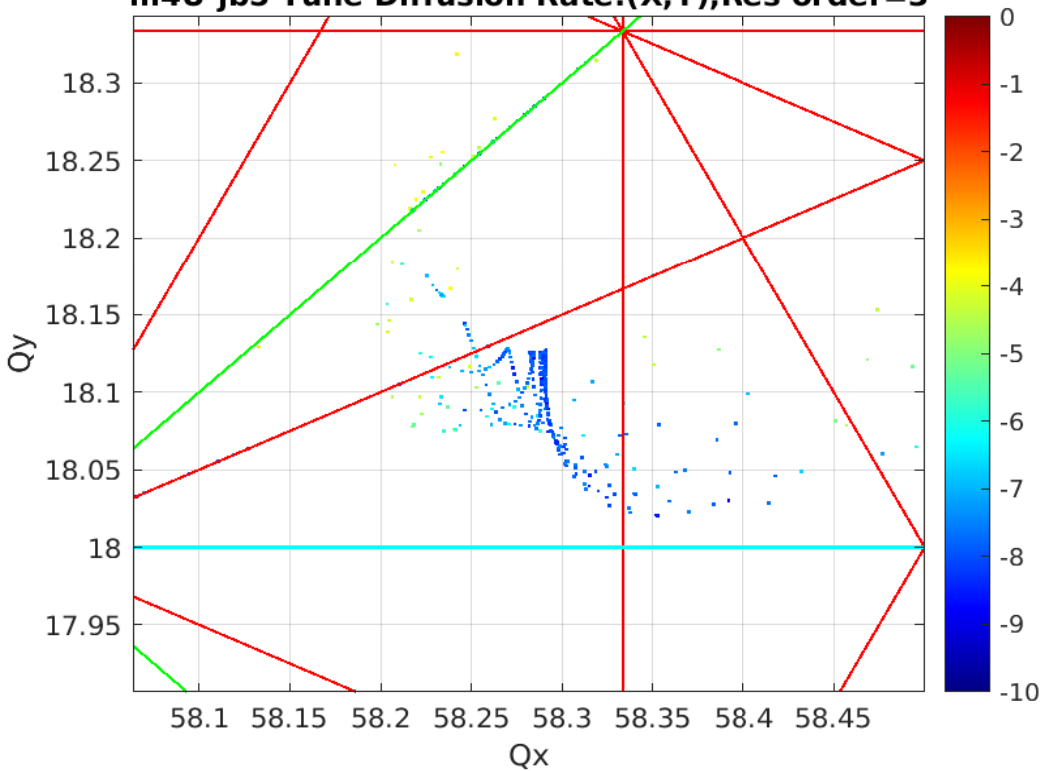
# m4U-jb5



m4U-jb5 Tune Diffusion Rate

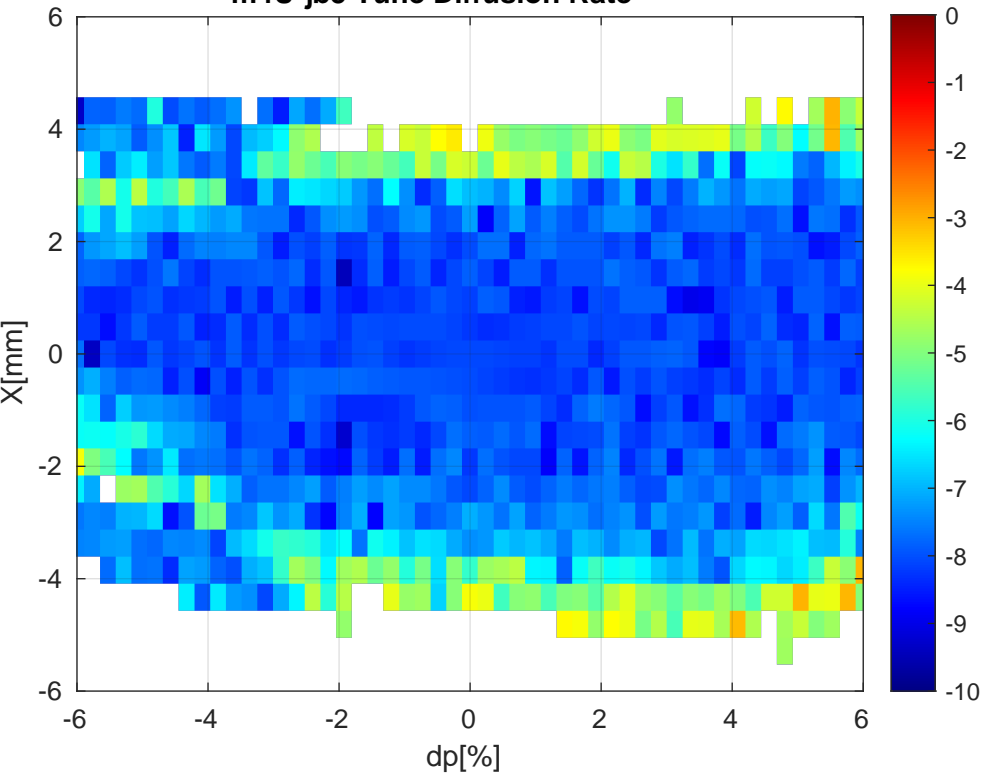


**m4U-jb5 Tune Diffusion Rate:(X,Y),Res order=3**

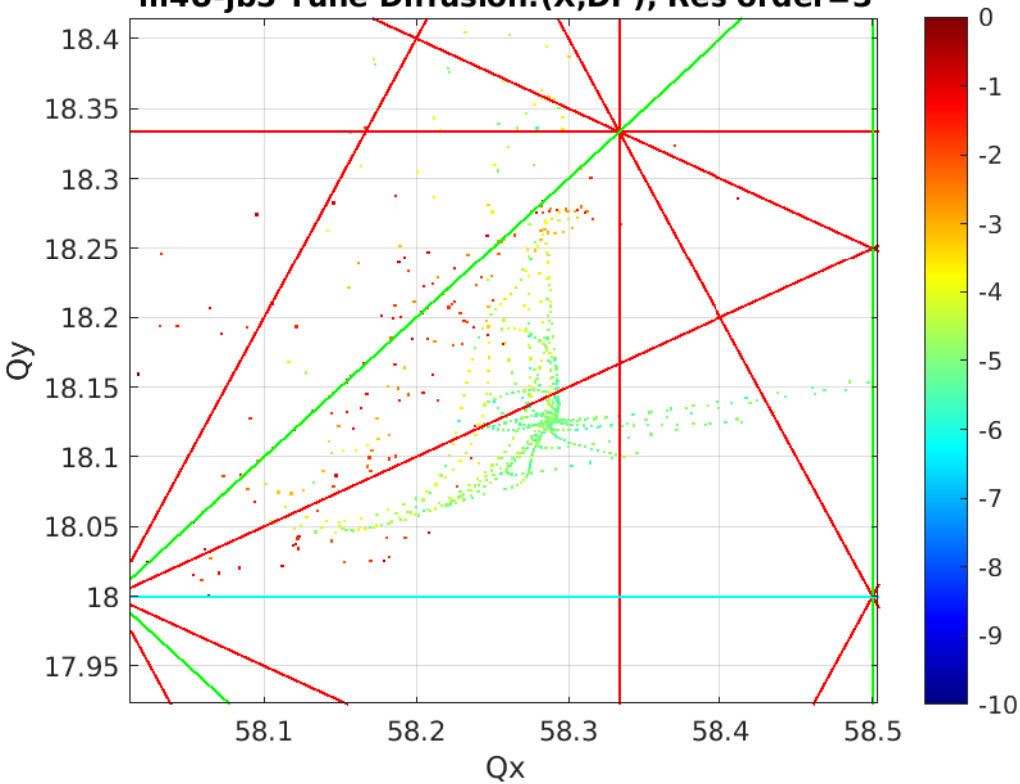




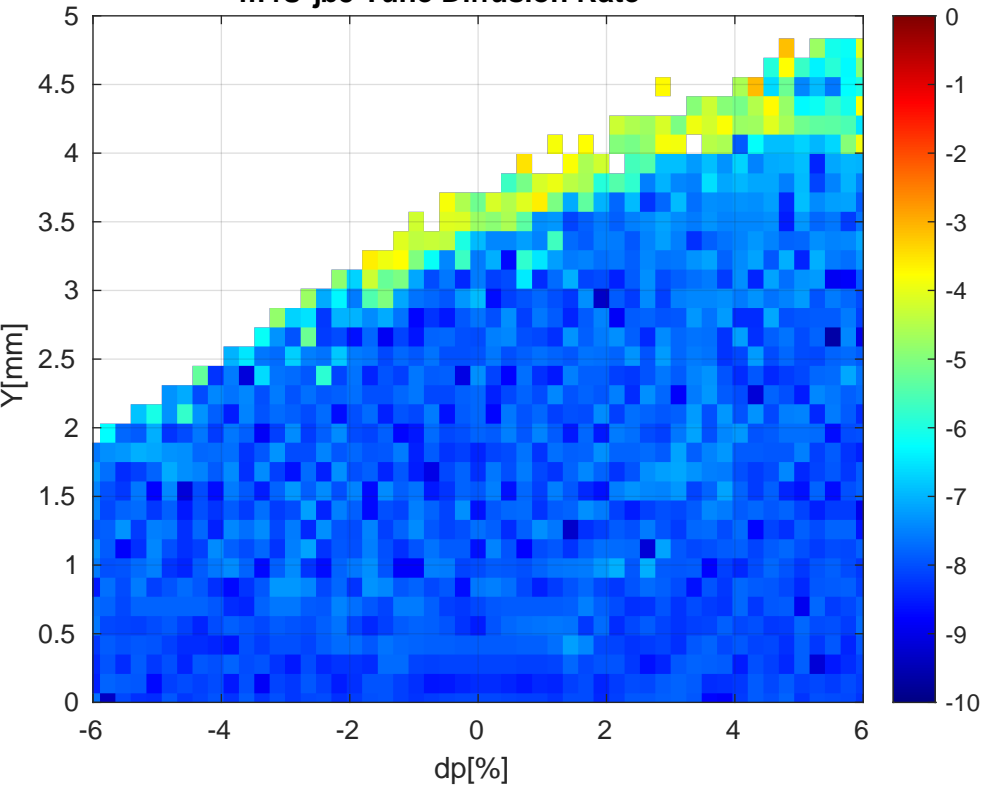
m4U-jb5 Tune Diffusion Rate



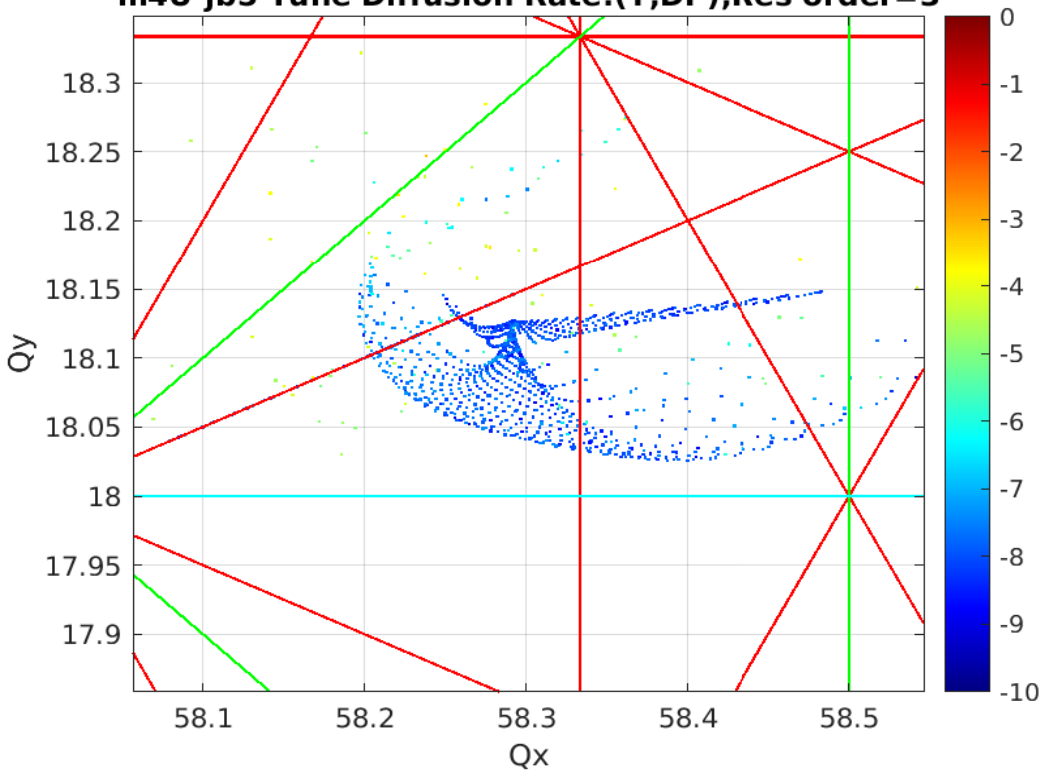
**m4U-jb5 Tune Diffusion:(X,DP), Res order=3**



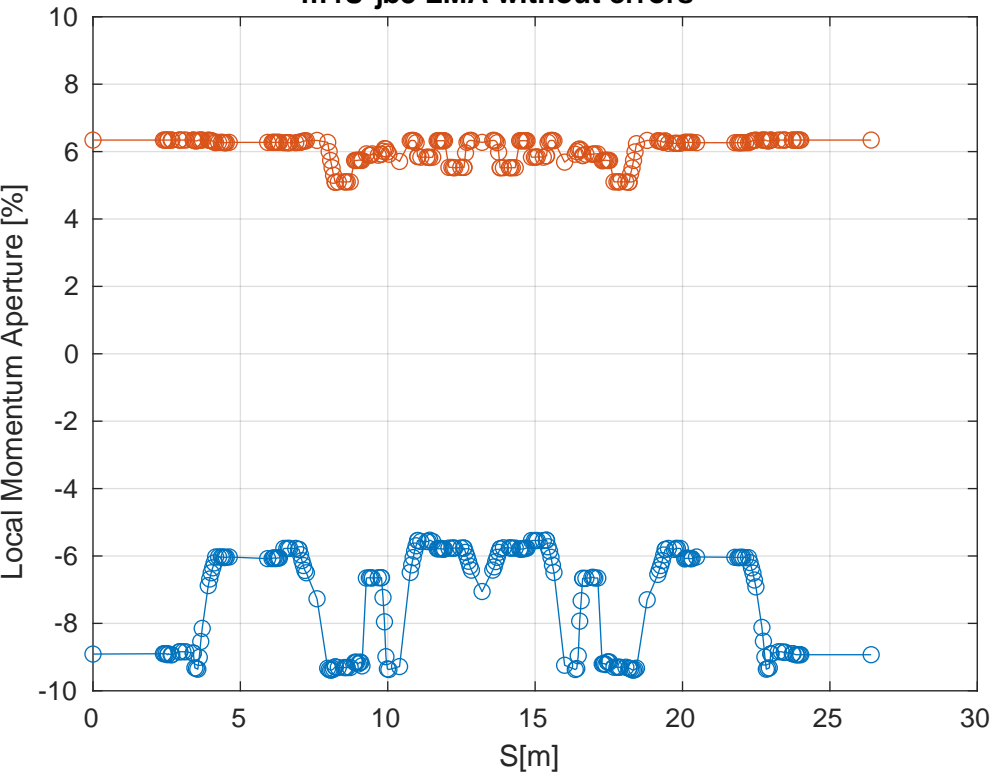
m4U-jb5 Tune Diffusion Rate



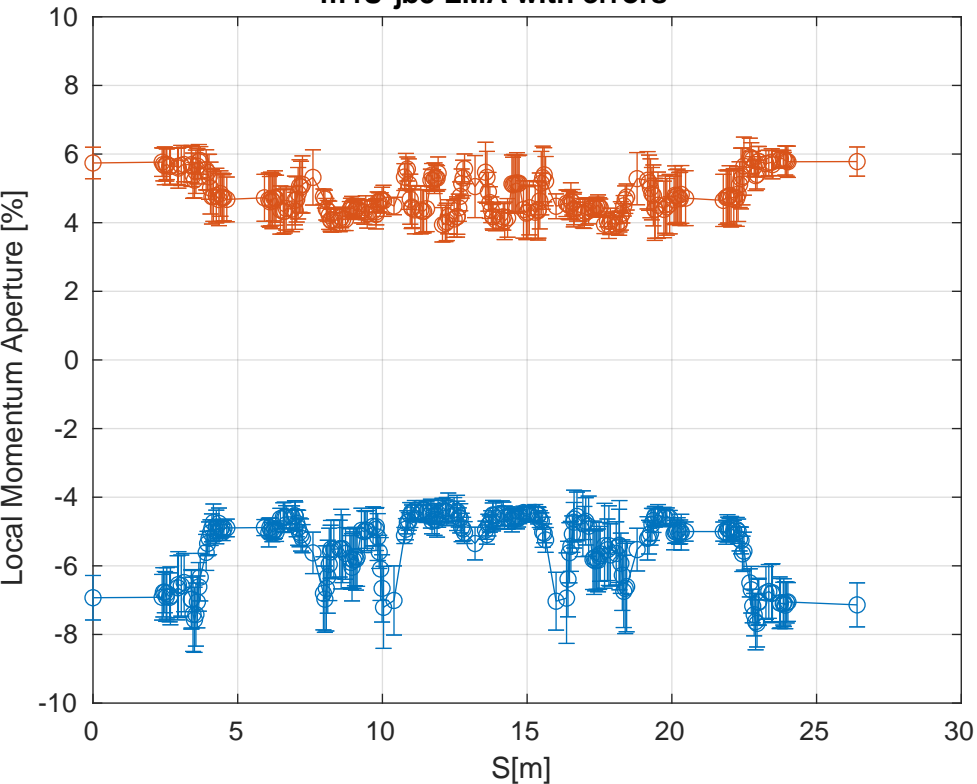
**m4U-jb5 Tune Diffusion Rate:(Y,DP),Res order=3**



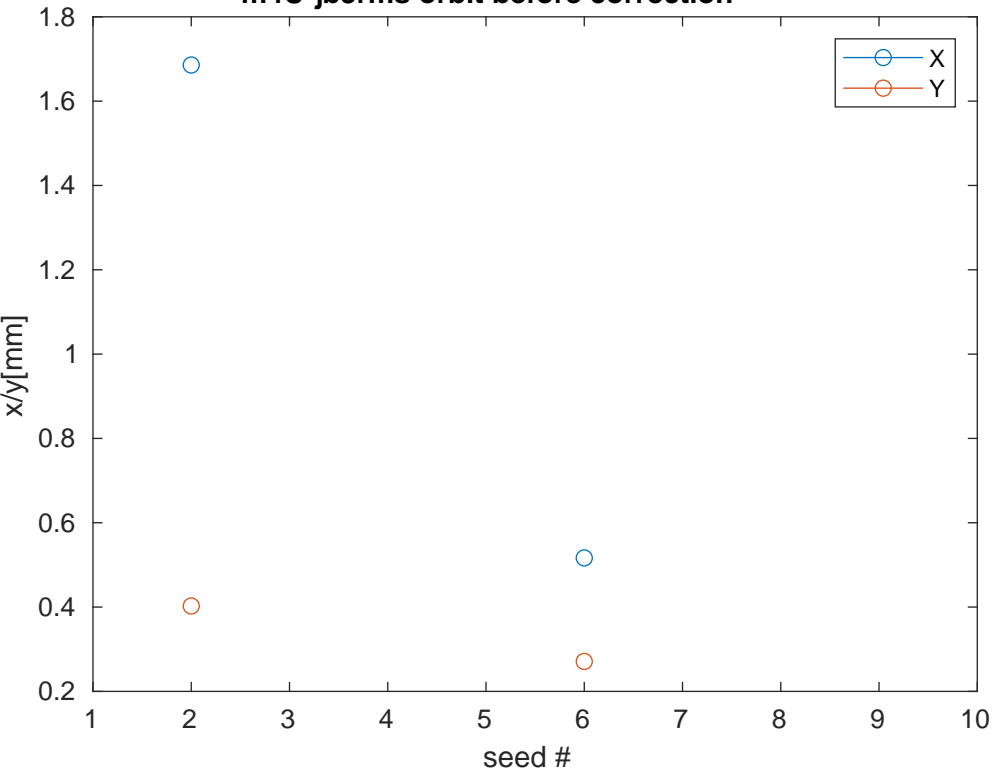
m4U-jb5 LMA without errors



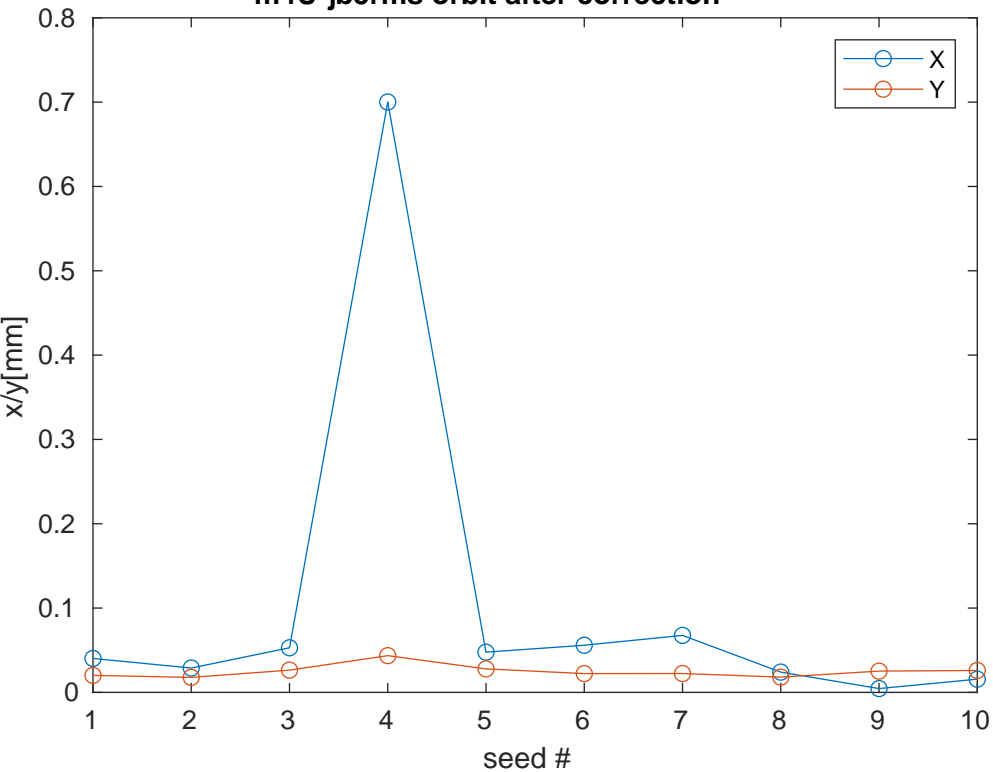
m4U-jb5 LMA with errors



m4U-jb5rms orbit before correction

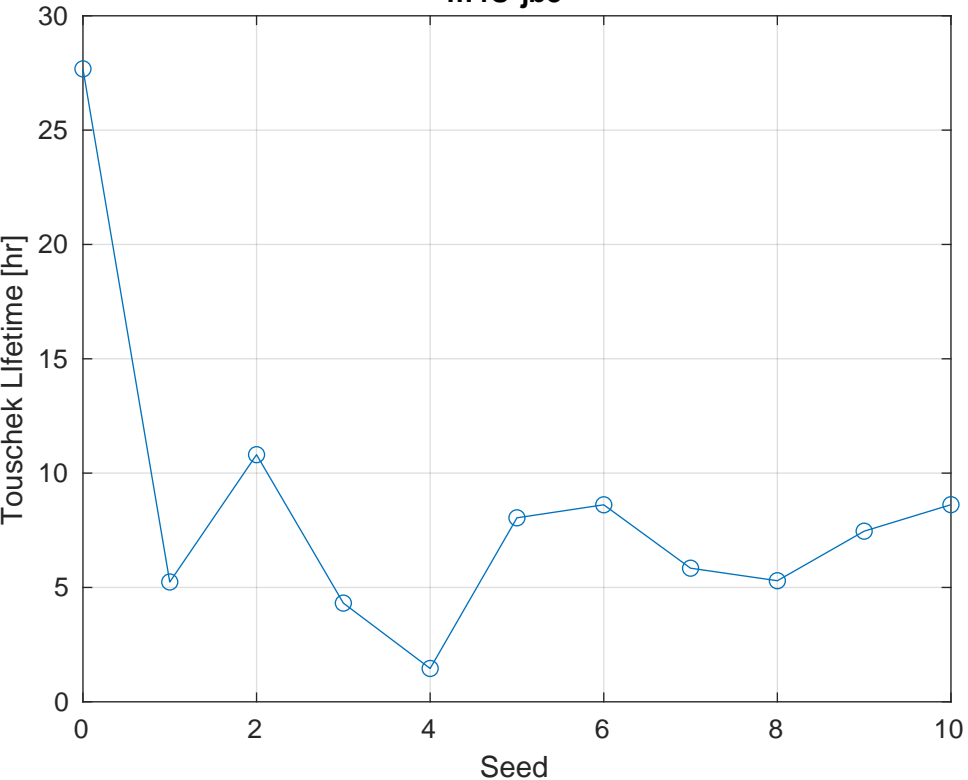


m4U-jb5rms orbit after correction

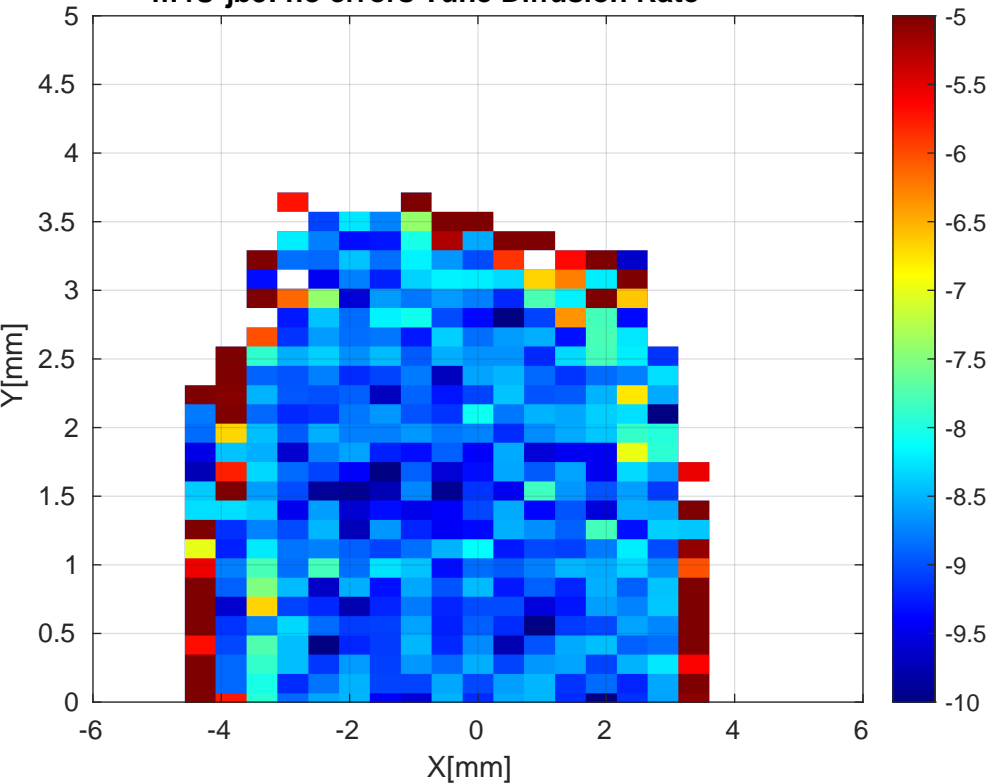




m4U-jb5



m4U-jb5: no errors Tune Diffusion Rate



m4U-jb5: with errors Tune Diffusion Rate

