

***** Summary for 'm4 Standard Lattice' *****

04-Aug-2024 14:57:43

Energy: ### 3.0 GeV

Circumference: ## 528.0 m

Full tunes H/V: ## 42.20 / 16.28

Momentum Compaction Factor: # 3.06e-04

Chromaticity H: ##+1.00

Chromaticity V: ##+1.00

Radiation Loss: ## 363.8 keV

Natural Energy Spread: # 0.08 %

Natural Emittance: ## 328.2 pmrad

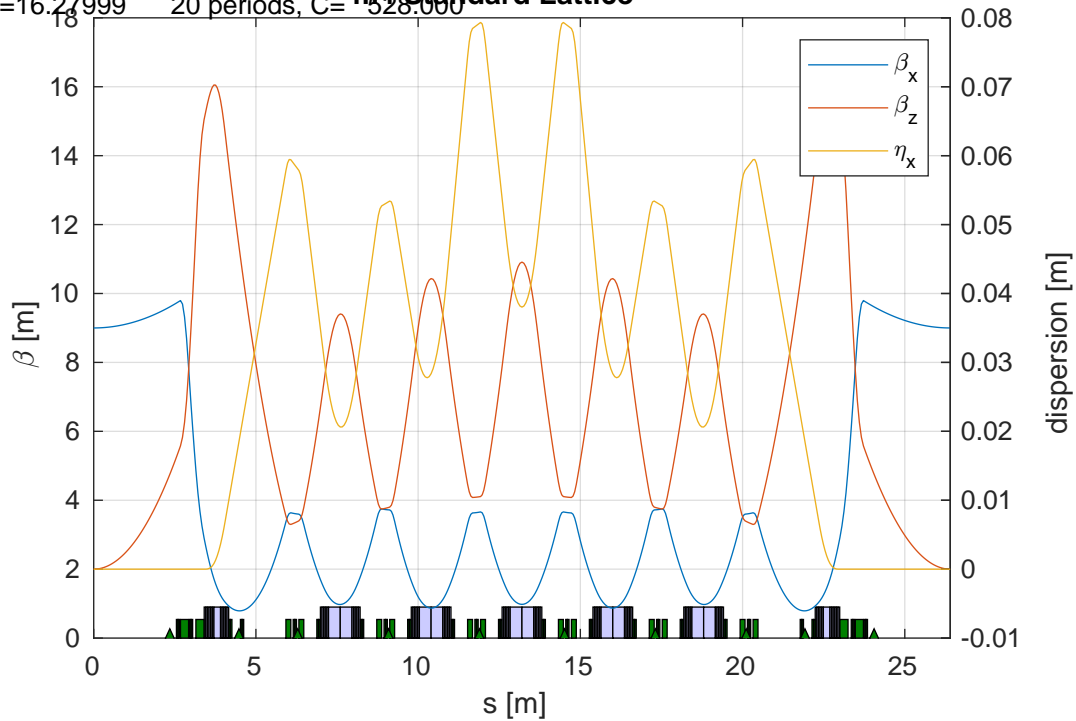
RF Voltage: # 1.8 MV

Achromat natural chromaticities: H/V## -2.50 / -2.51

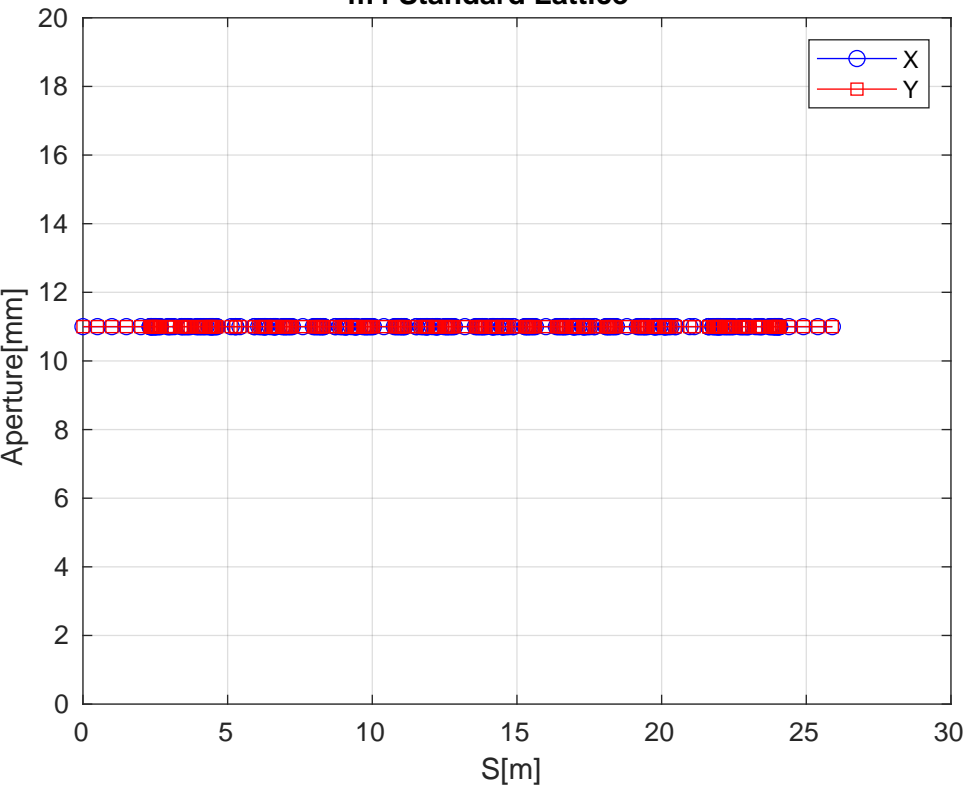
Achromat tunes H/V: ## 2.11 / 0.81

$\nu_x = 42.20000$ $\delta p/p = 0.000$ $\nu_z = 16.27999$ 20 periods, $C = 528.000$

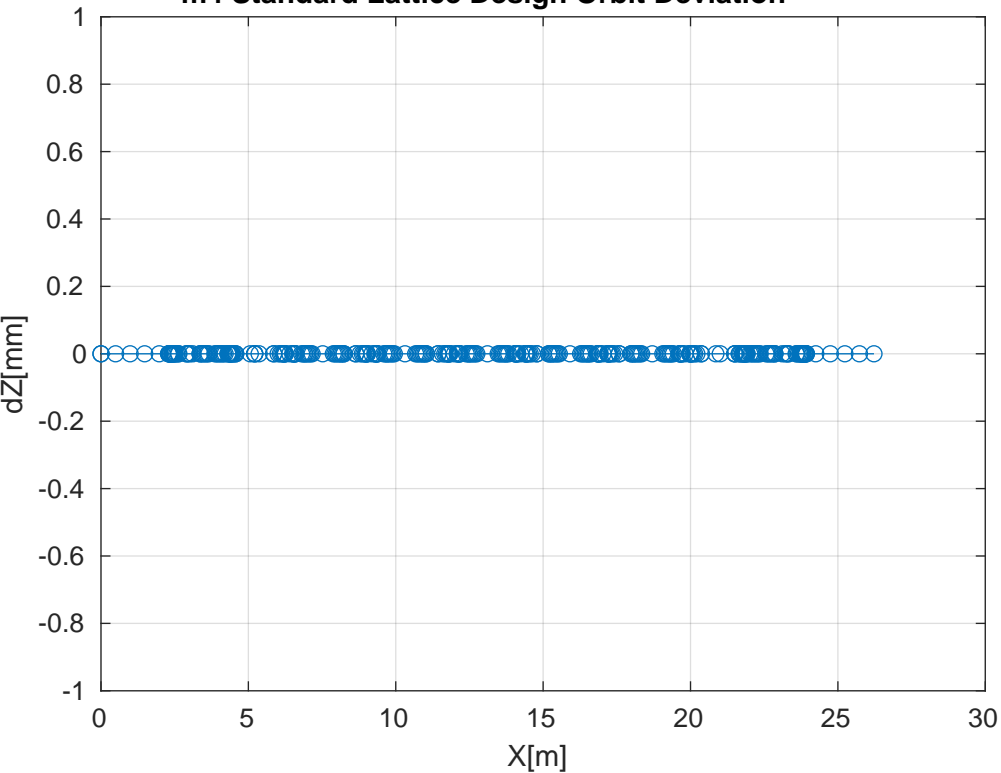
m4 Standard Lattice



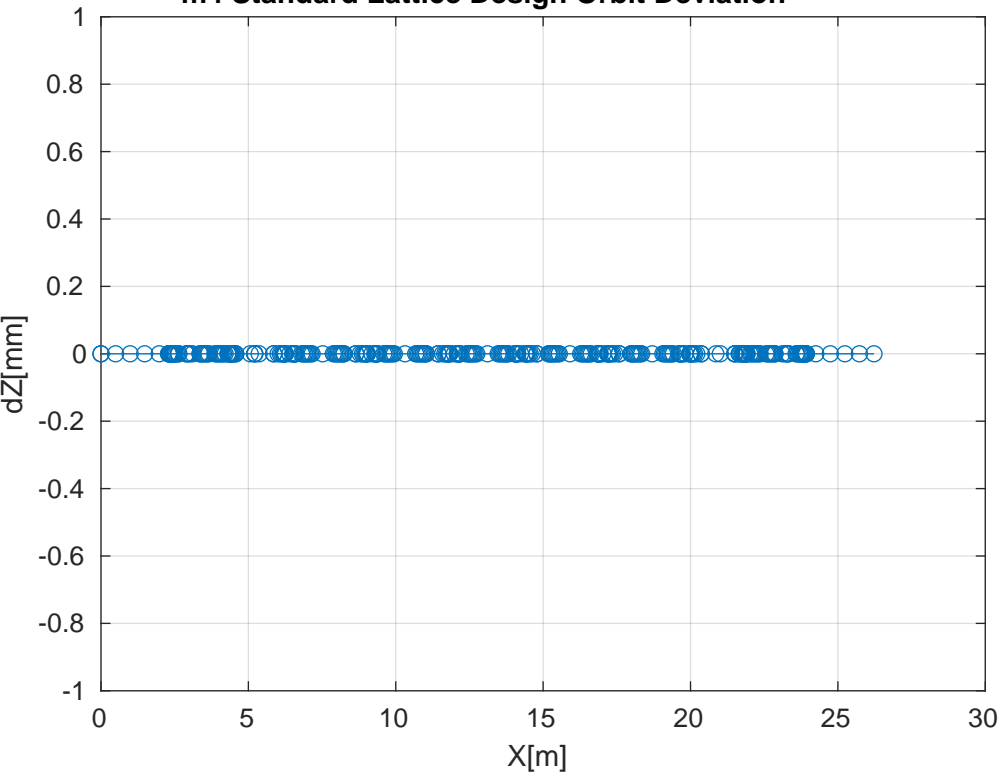
m4 Standard Lattice



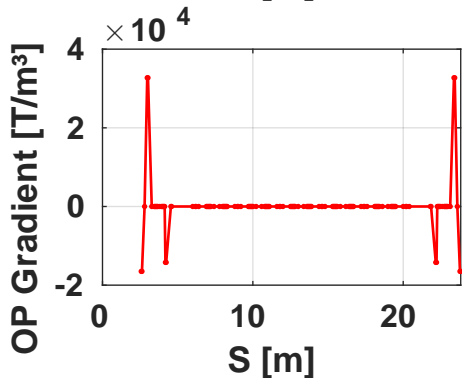
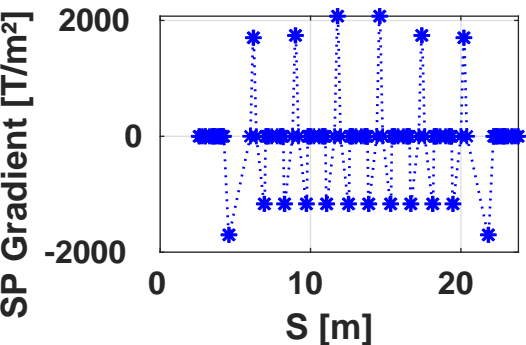
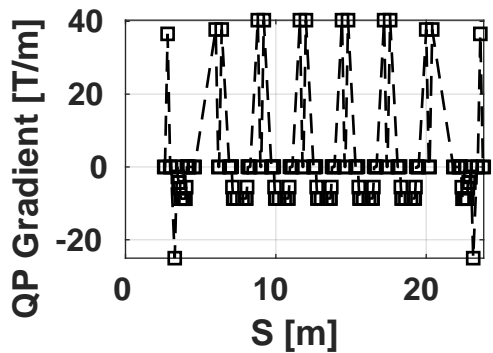
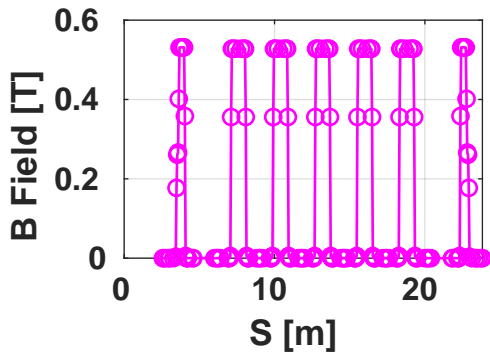
m4 Standard Lattice Design Orbit Deviation



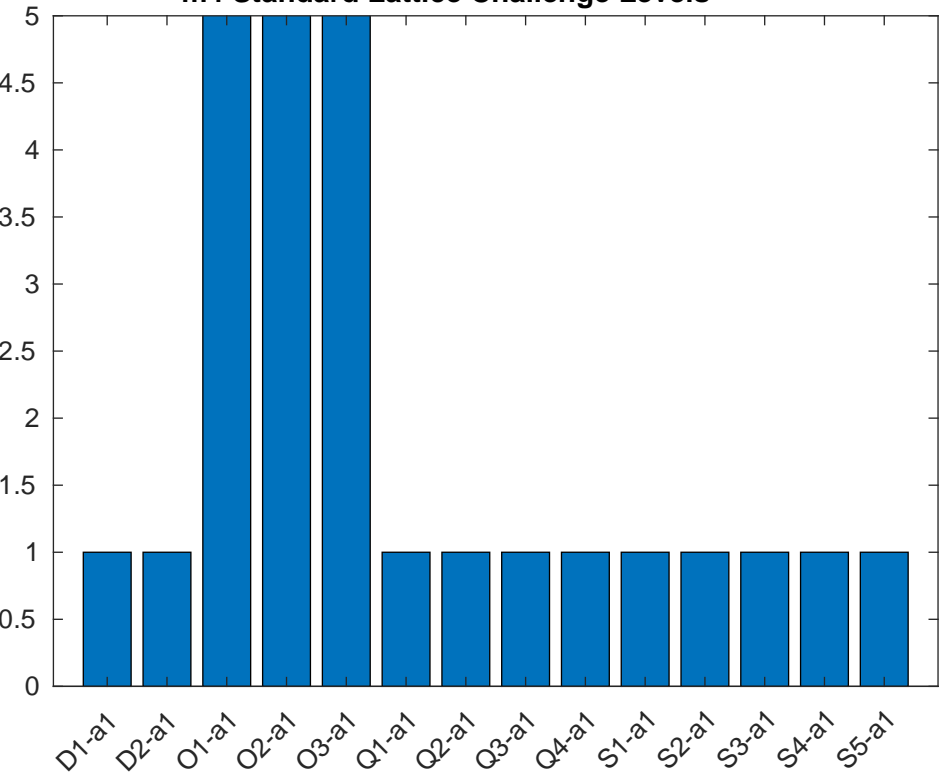
m4 Standard Lattice Design Orbit Deviation



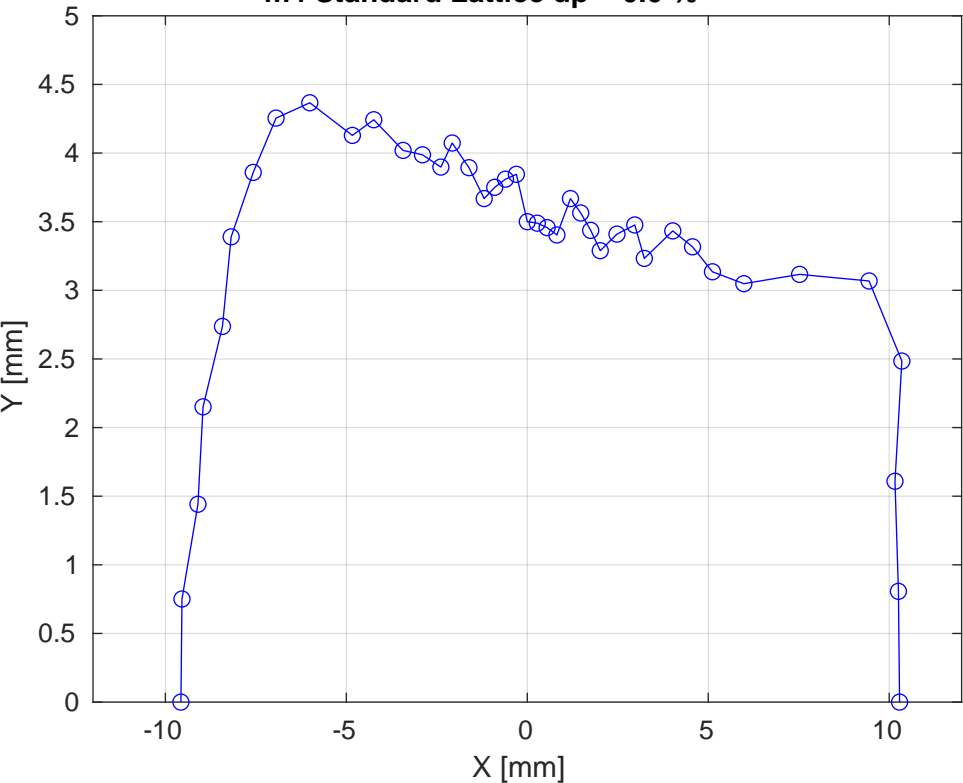
m4 Standard Lattice



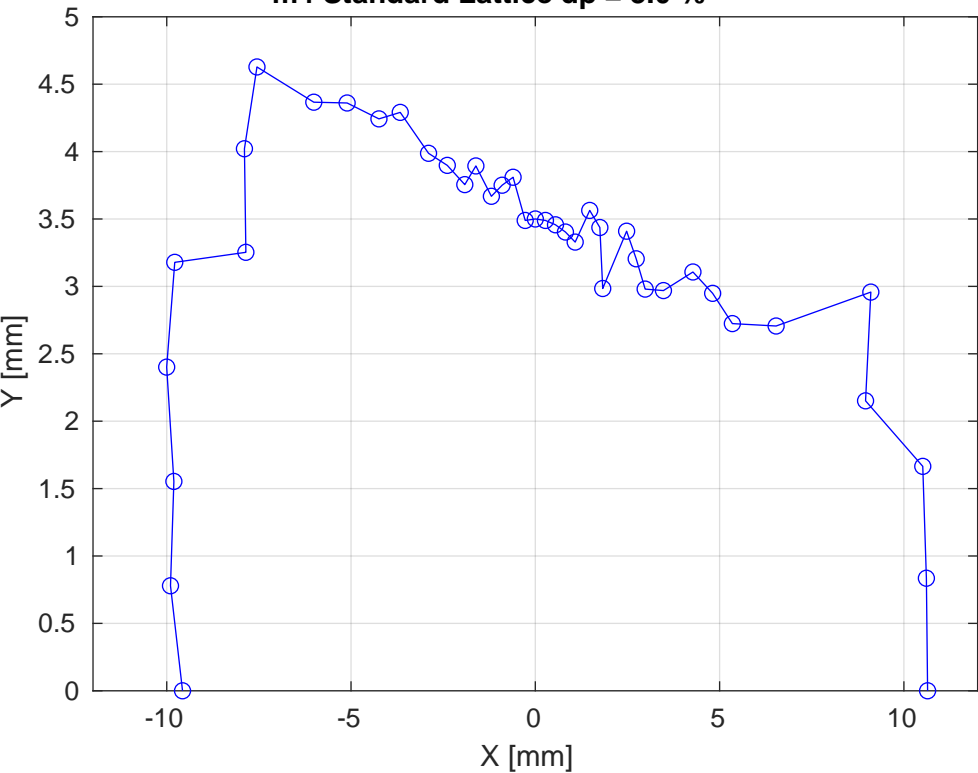
m4 Standard Lattice Challenge Levels



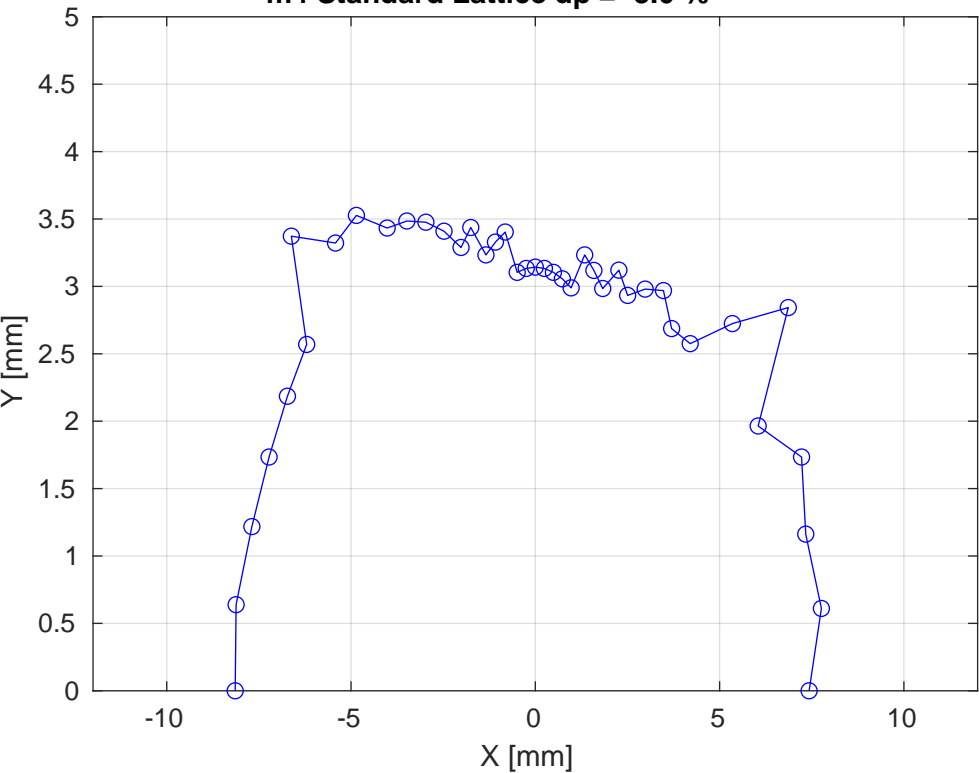
m4 Standard Lattice dp = 0.0 %



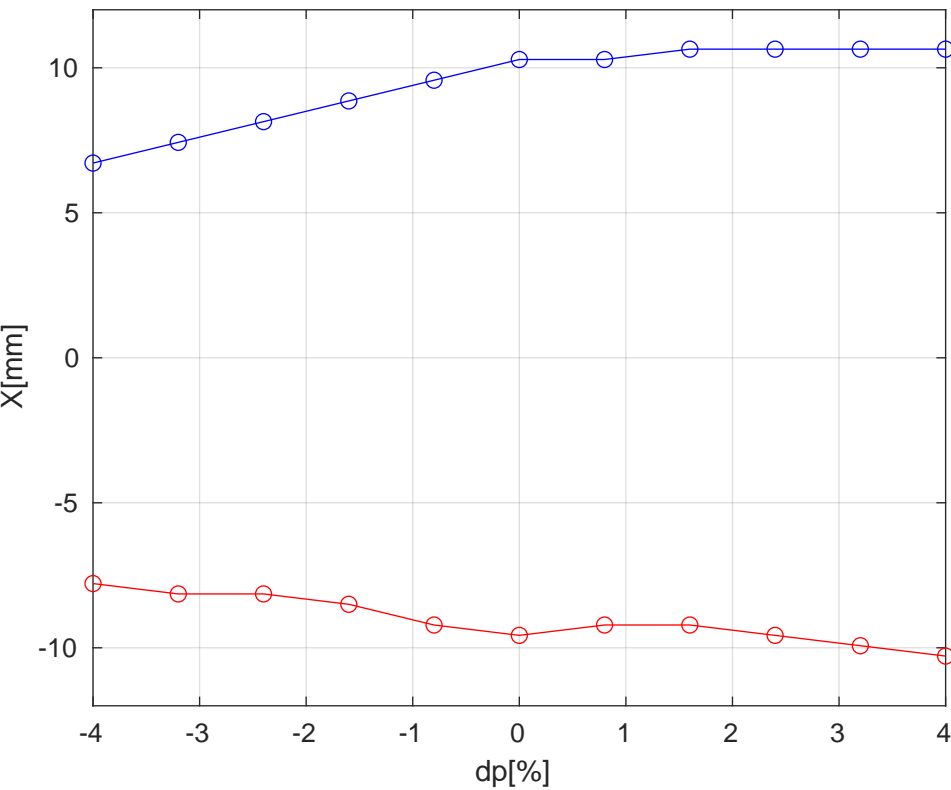
m4 Standard Lattice dp = 3.0 %



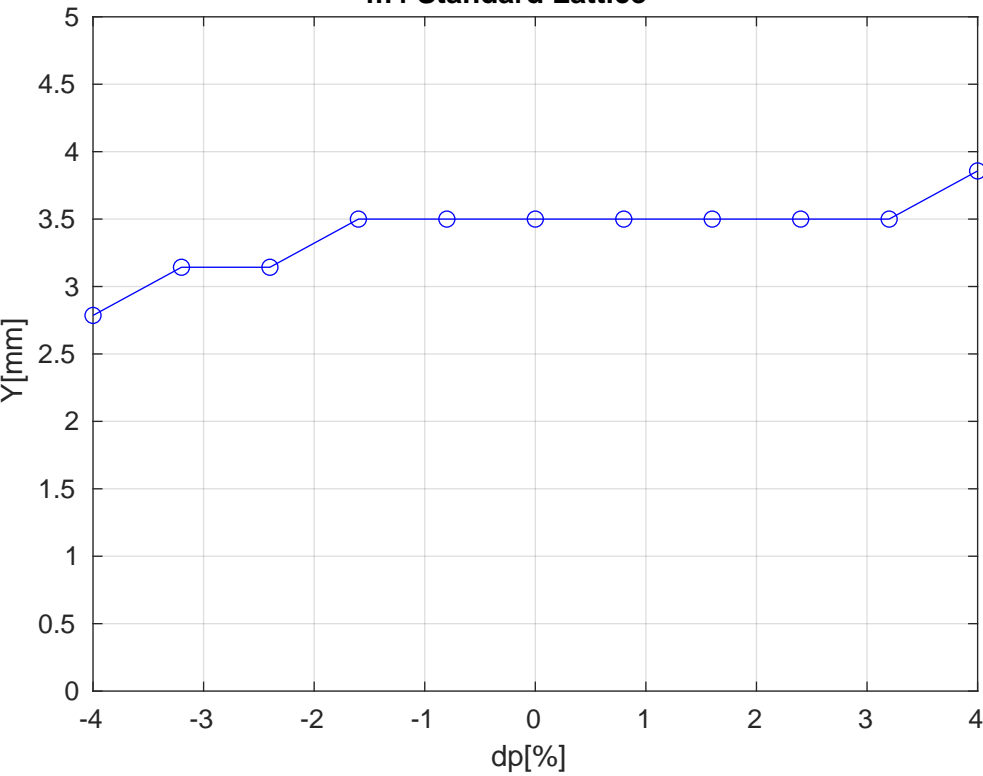
m4 Standard Lattice $dp = -3.0\%$



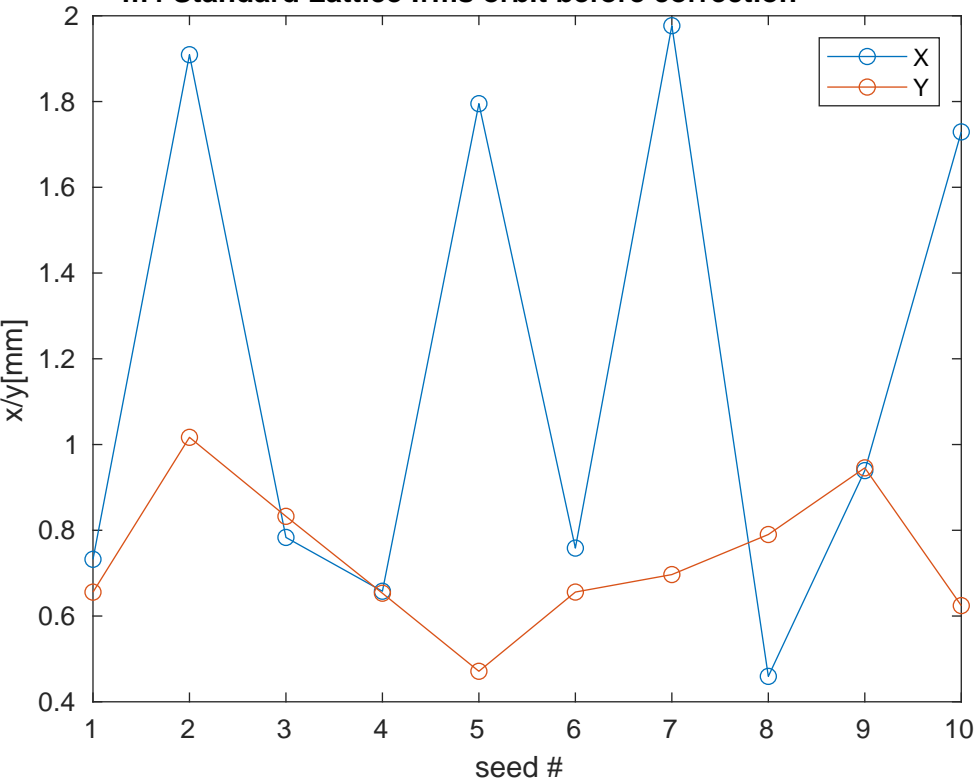
m4 Standard Lattice



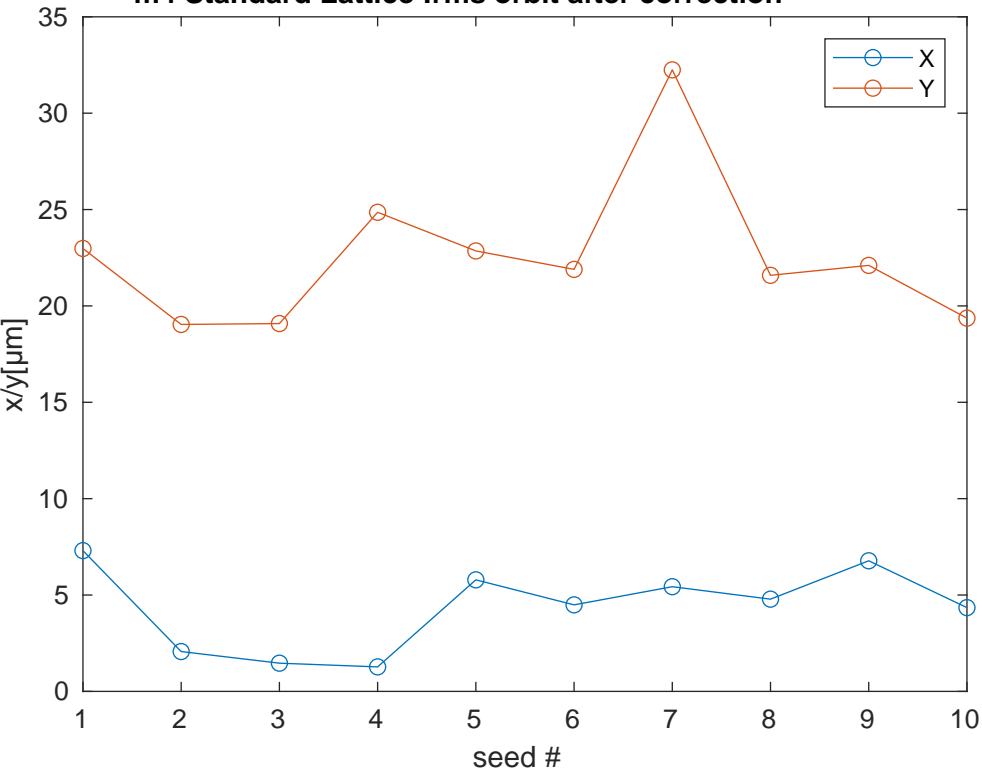
m4 Standard Lattice



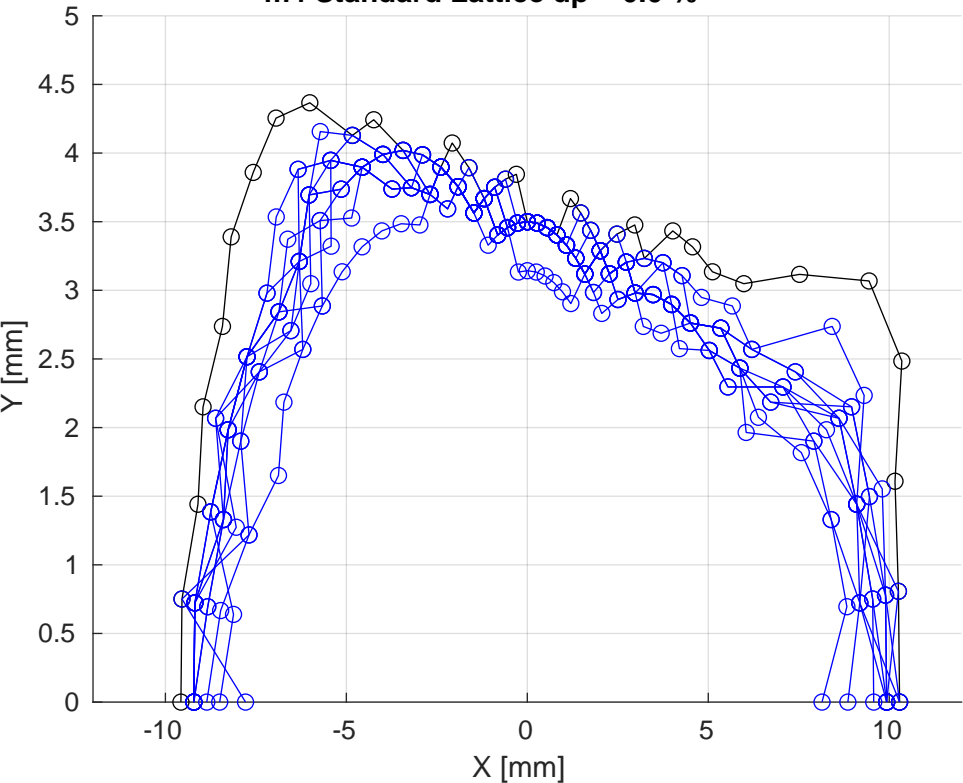
m4 Standard Lattice :rms orbit before correction



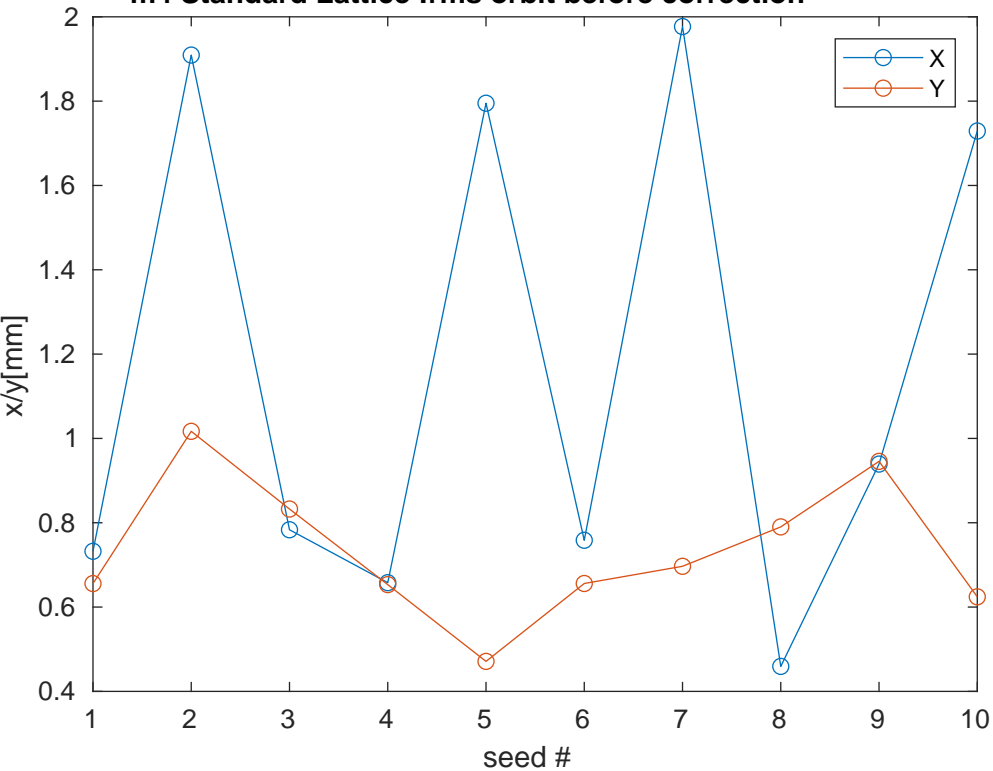
m4 Standard Lattice :rms orbit after correction



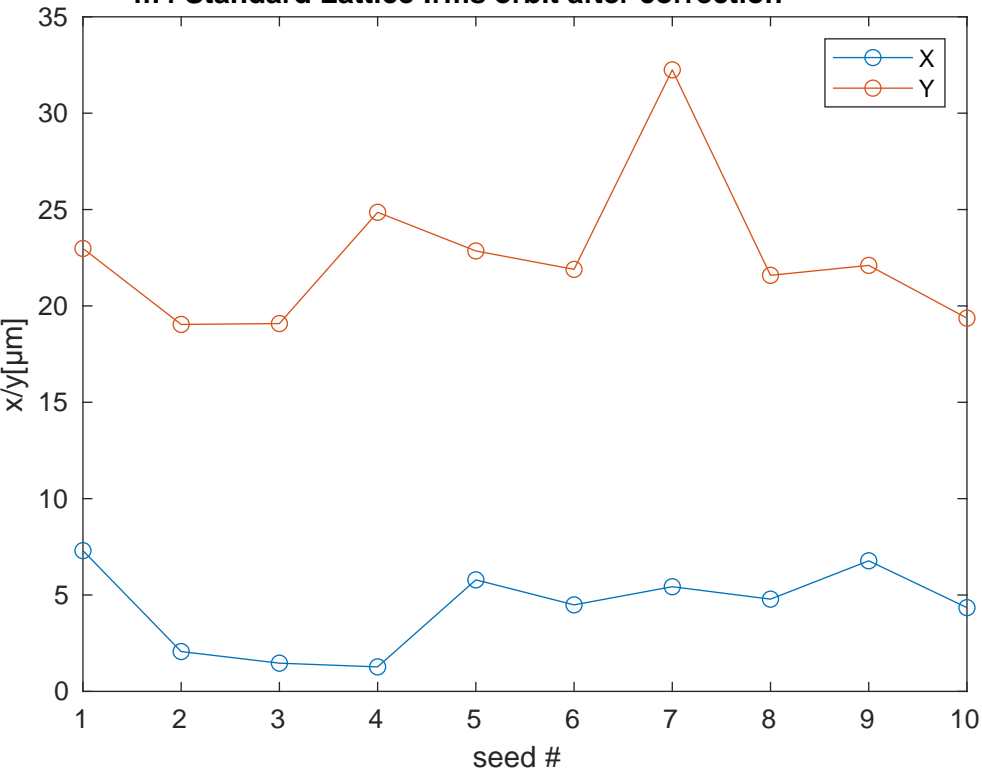
m4 Standard Lattice dp = 0.0 %



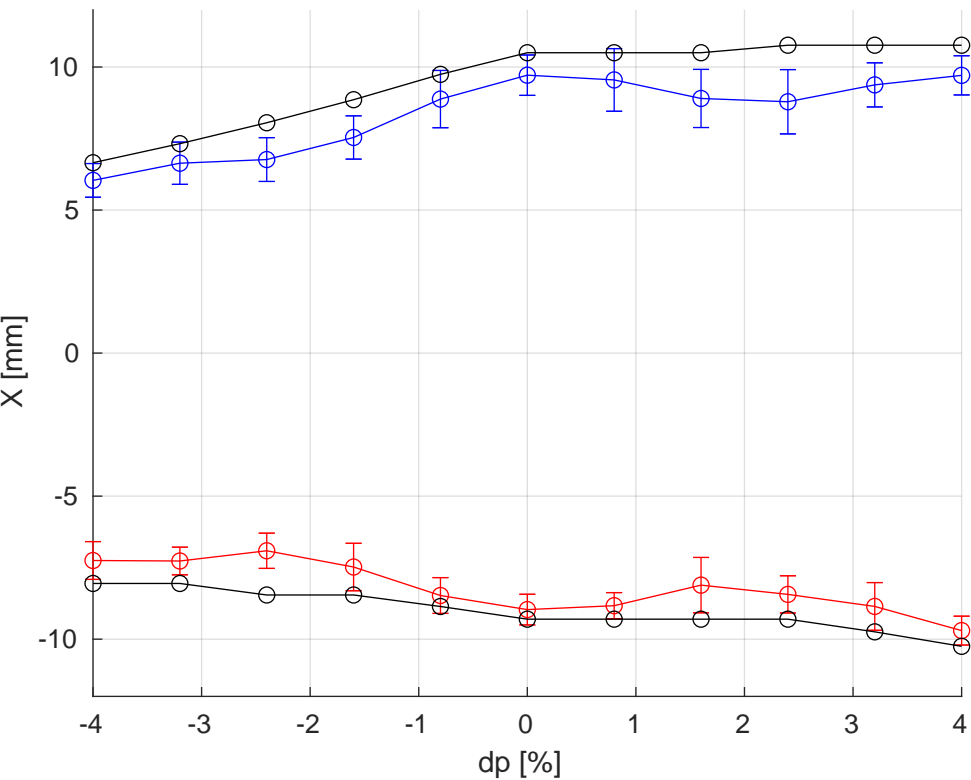
m4 Standard Lattice :rms orbit before correction



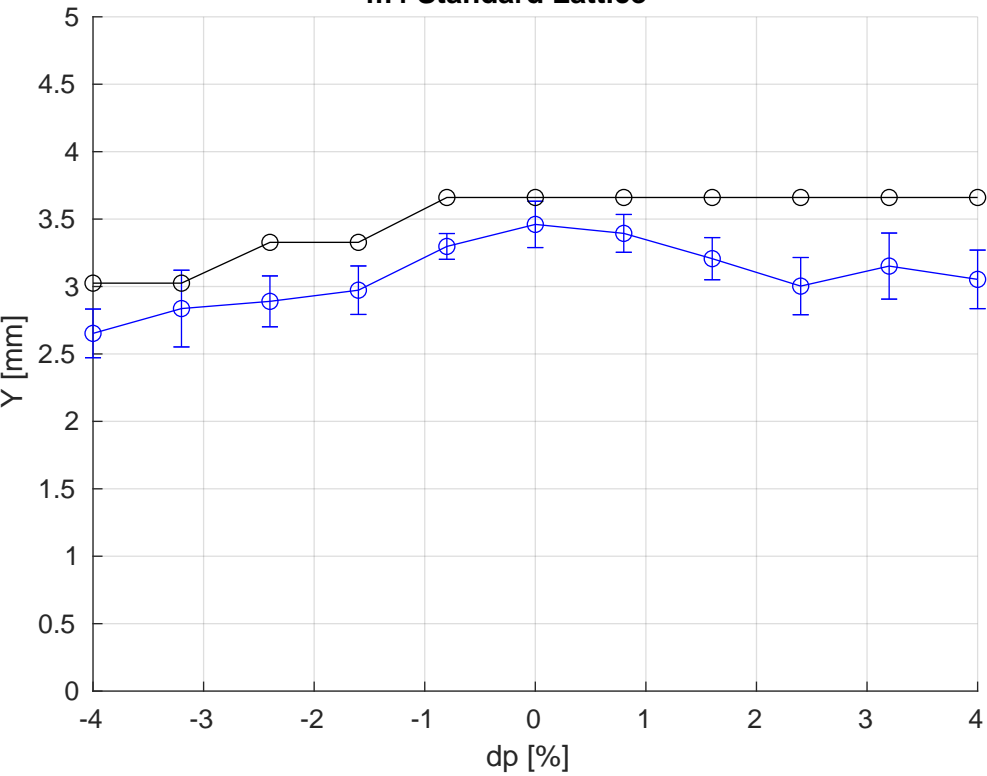
m4 Standard Lattice :rms orbit after correction



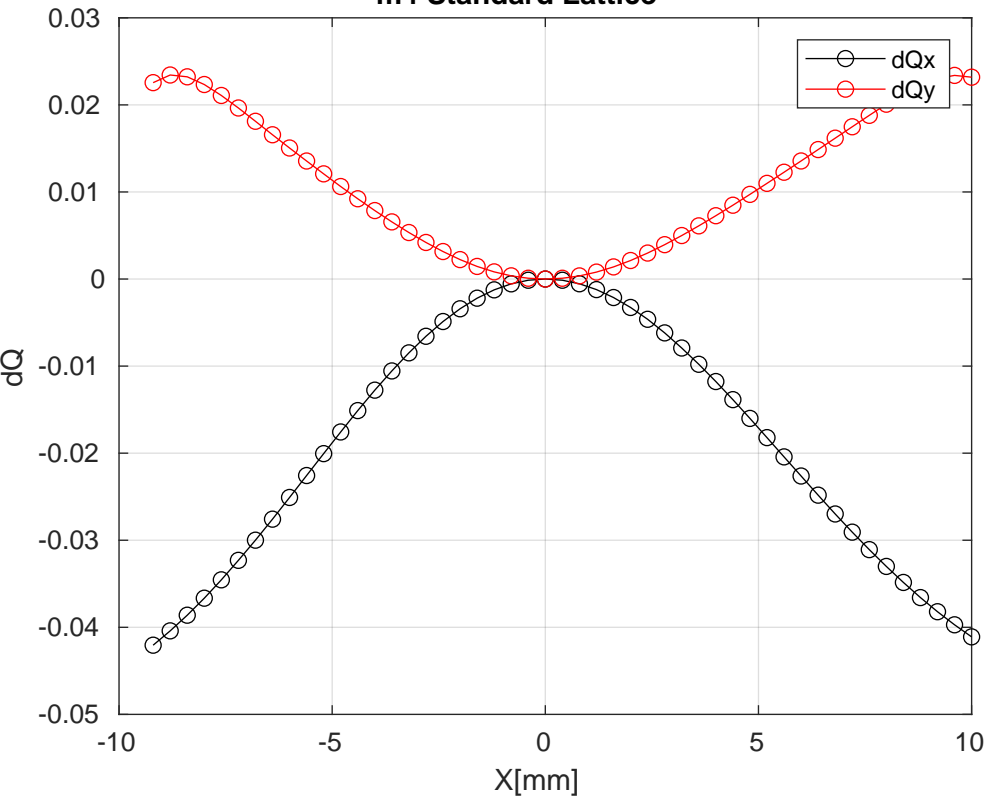
m4 Standard Lattice



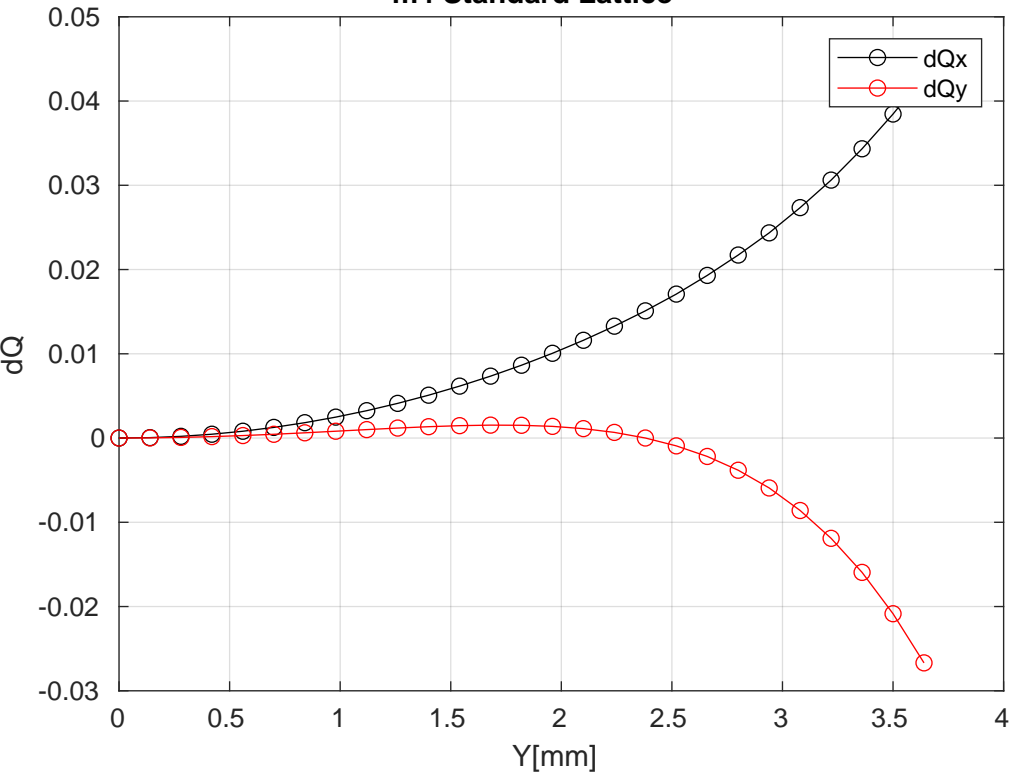
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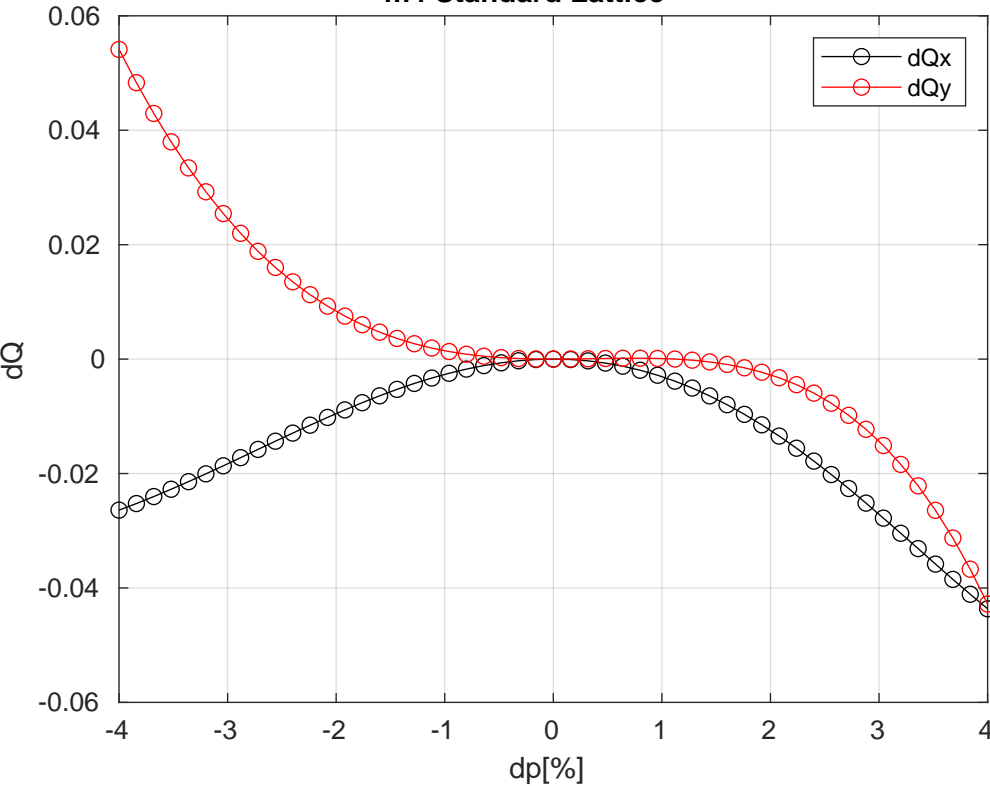
m4 Standard Lattice



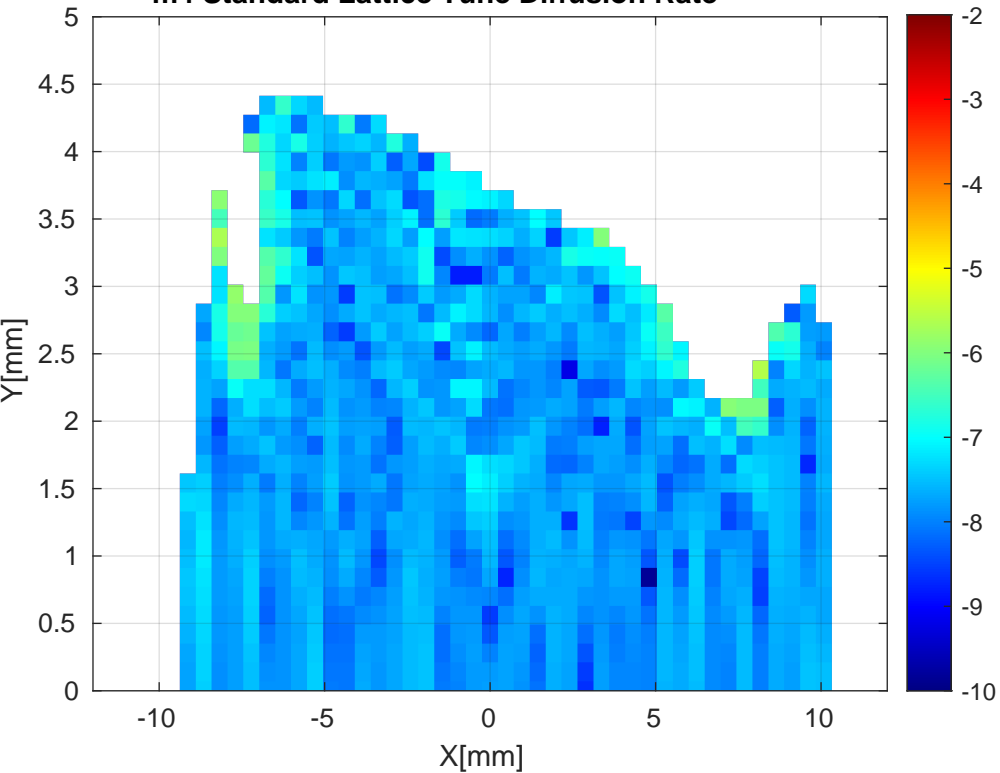
m4 Standard Lattice



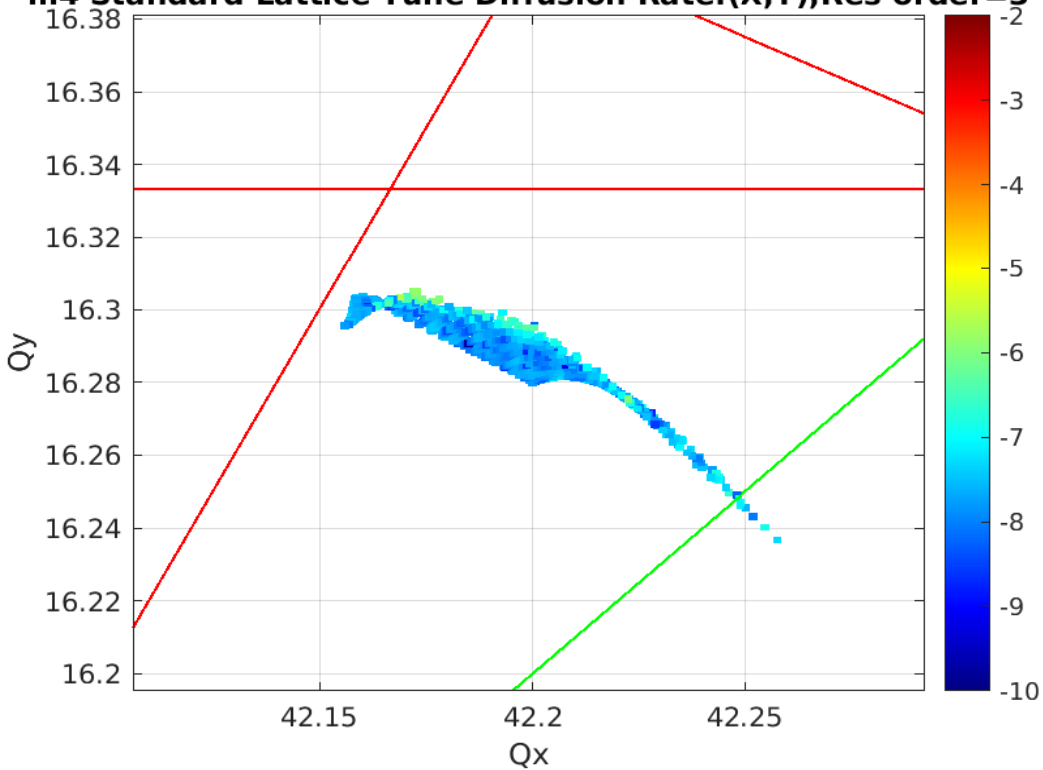
m4 Standard Lattice



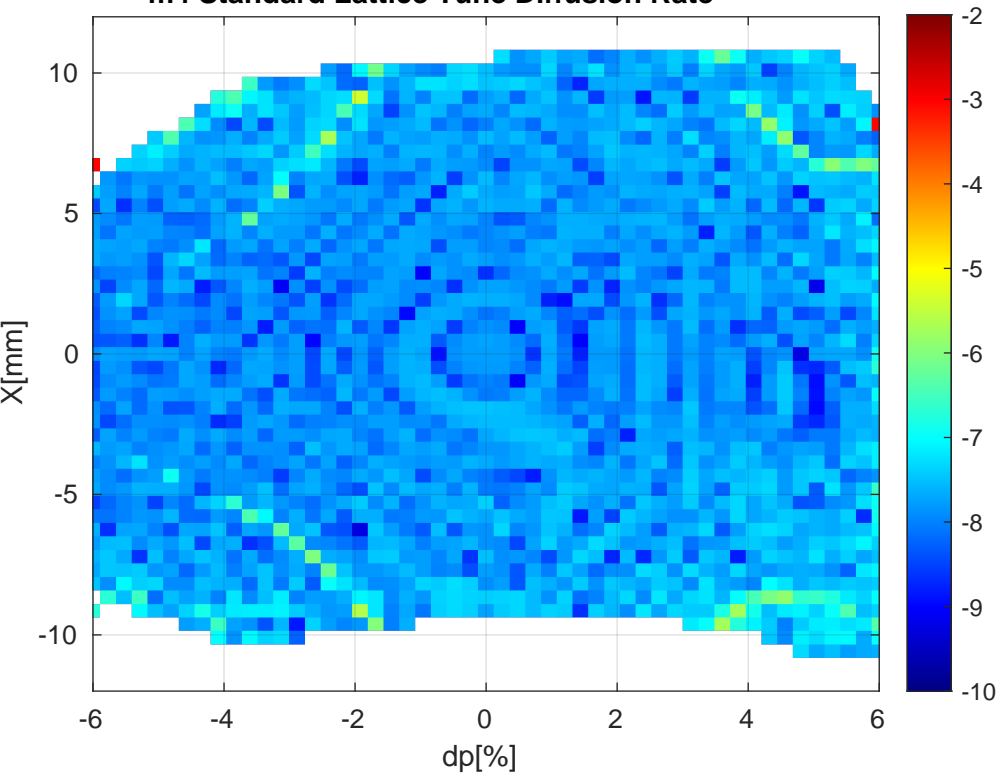
m4 Standard Lattice Tune Diffusion Rate



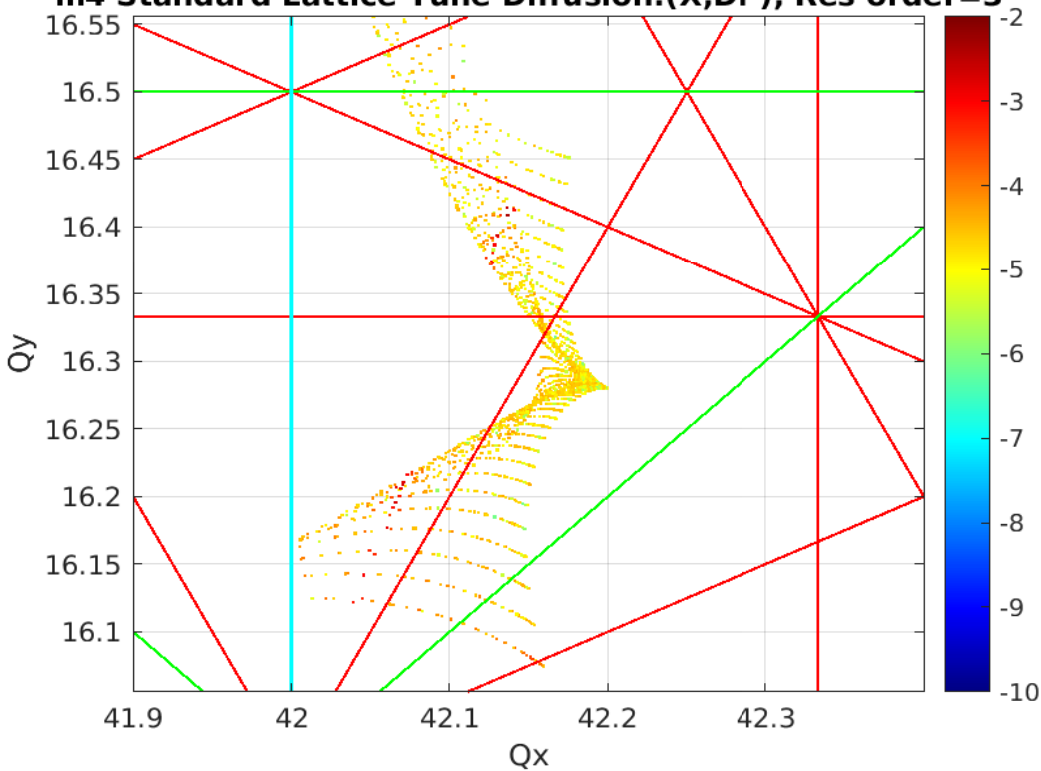
m4 Standard Lattice Tune Diffusion Rate:(X,Y),Res order=3



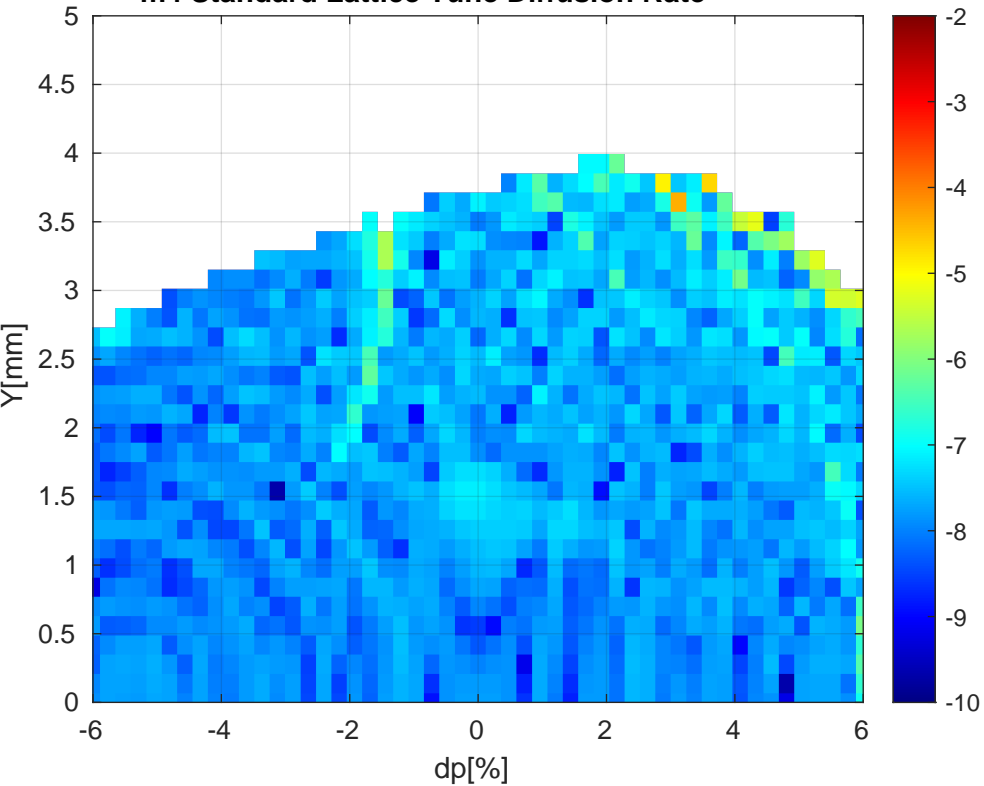
m4 Standard Lattice Tune Diffusion Rate



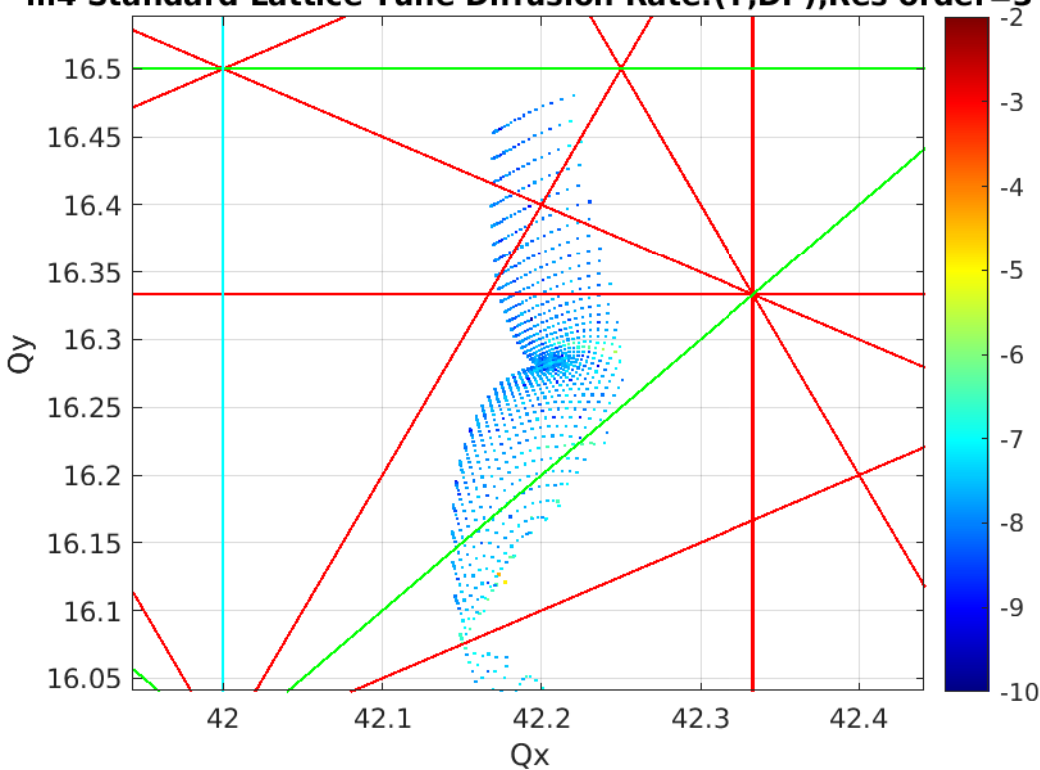
m4 Standard Lattice Tune Diffusion:(X,DP), Res order=3



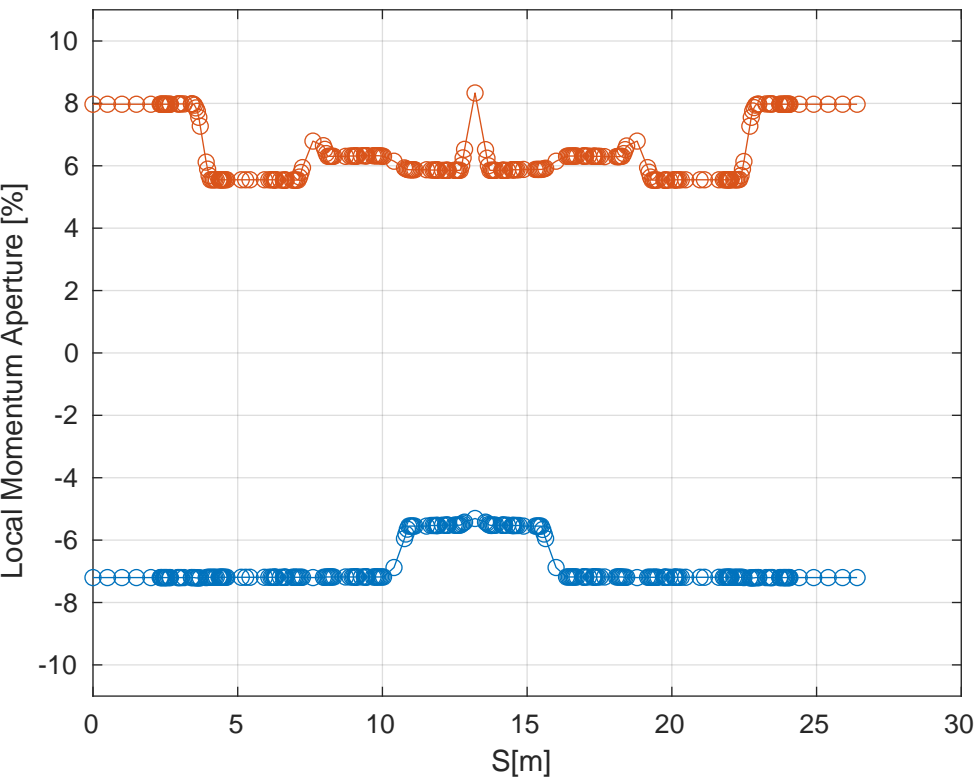
m4 Standard Lattice Tune Diffusion Rate



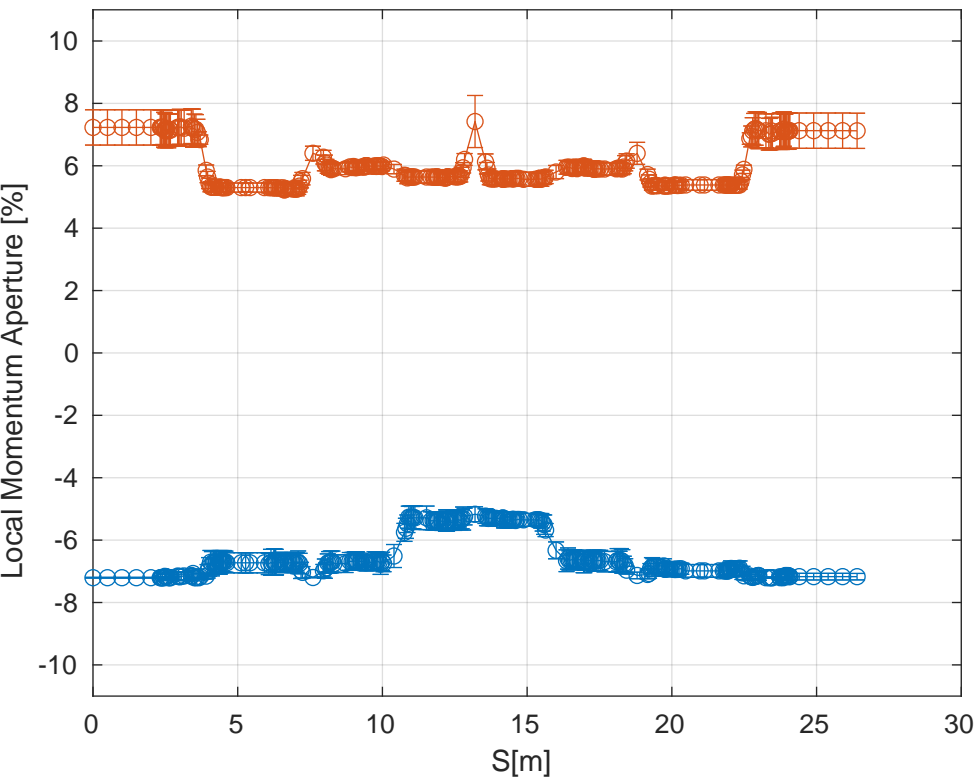
m4 Standard Lattice Tune Diffusion Rate:(Y,DP),Res order=3



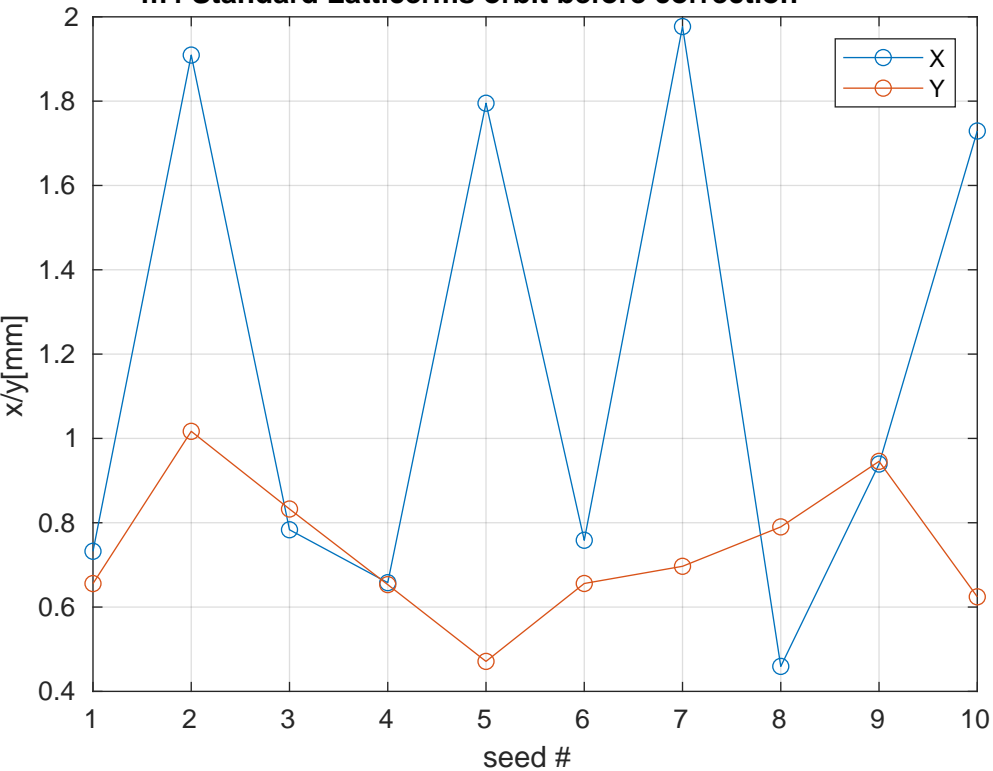
m4 Standard Lattice LMA without errors



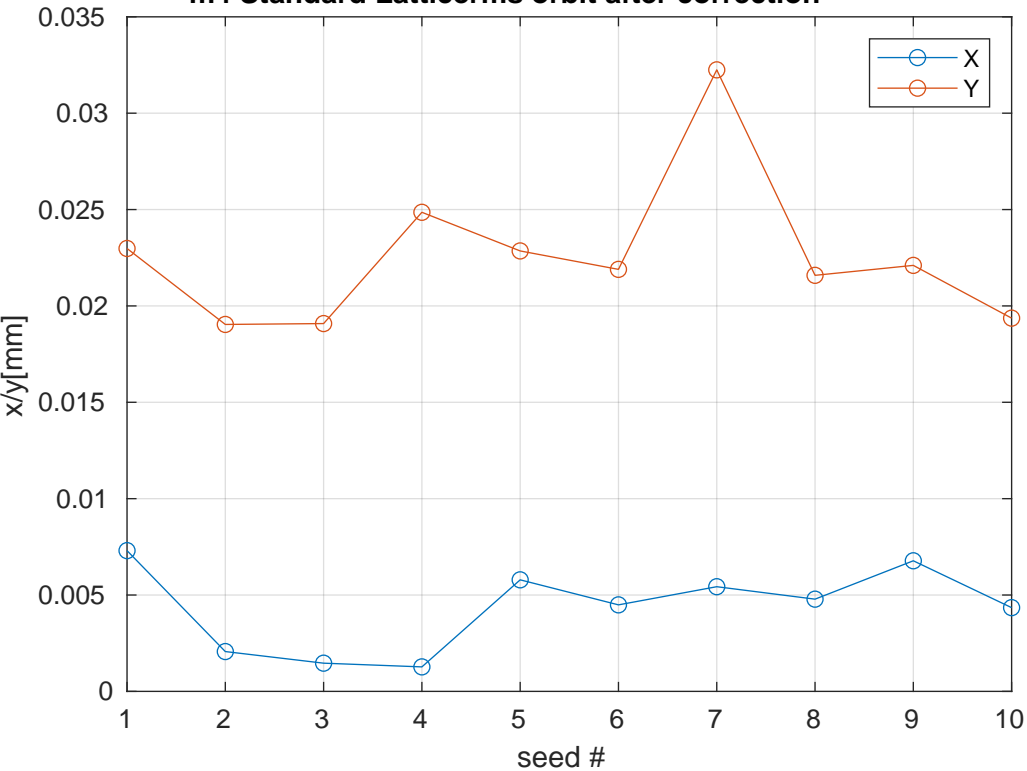
m4 Standard Lattice LMA with errors



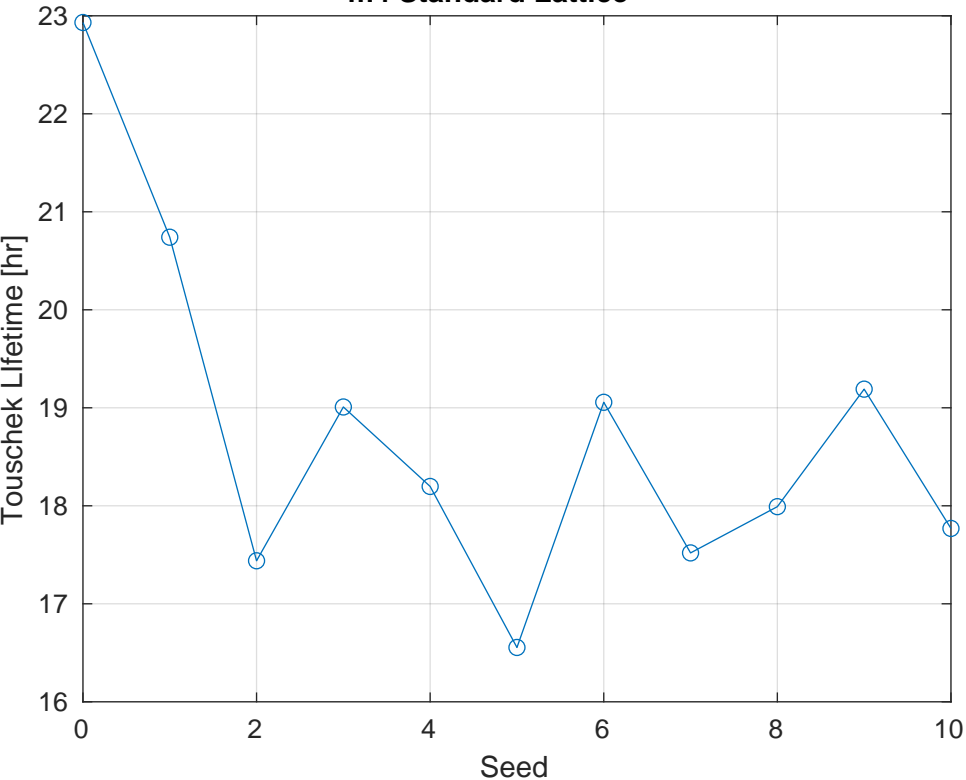
m4 Standard Latticerm's orbit before correction

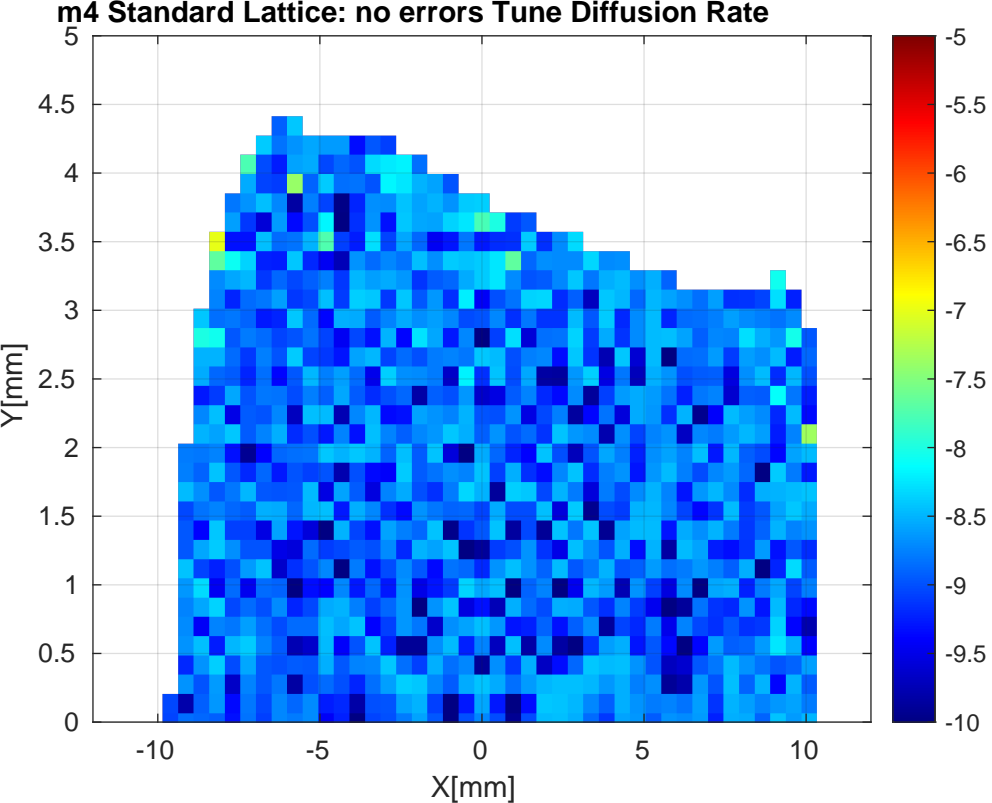


m4 Standard Latticterms orbit after correction



m4 Standard Lattice





m4 Standard Lattice: with errors Tune Diffusion Rate

