ATF2 lattice study, considering all the multipoles with known tilt.

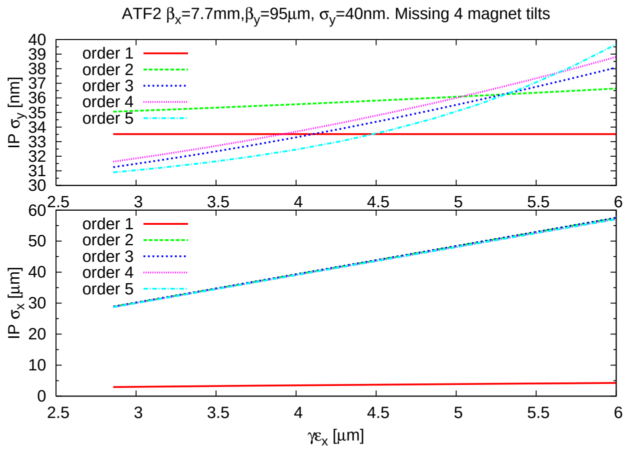

Figure 1: ATF2 Nominal β_y =95μm lattice.

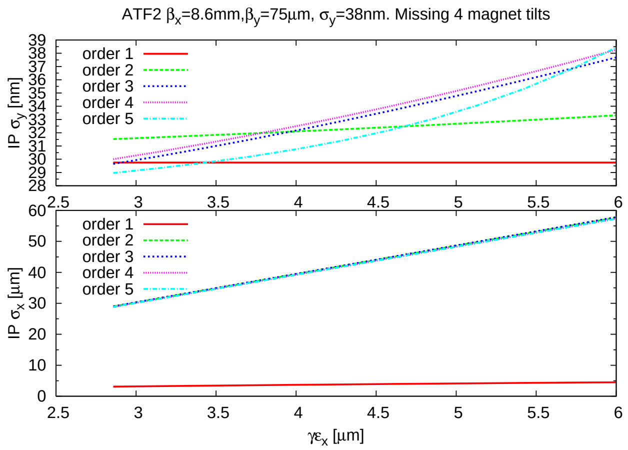

Figure 2: ATF2 Ultra-low β_y=75μm lattice.

IMPACT OF THE UNKNOWN MULTIPOLES

If now we set randomly the tilt of the multipoles of QD6FF, QF7FF, QF5AFF and QF5BFF, for 100 of cases we obtained the following situation:

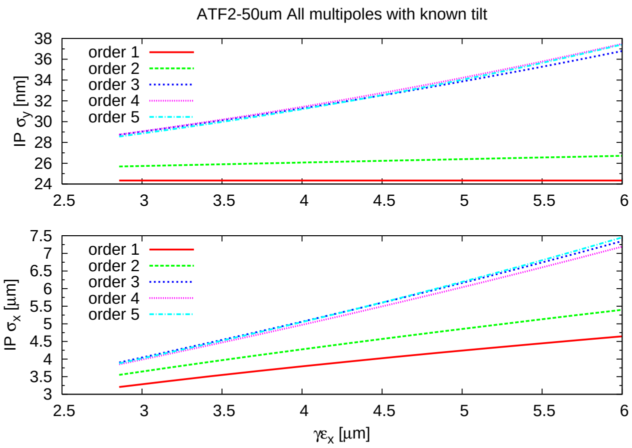

Figure 3: ATF2 Ultra-low β_y=50μm lattice.

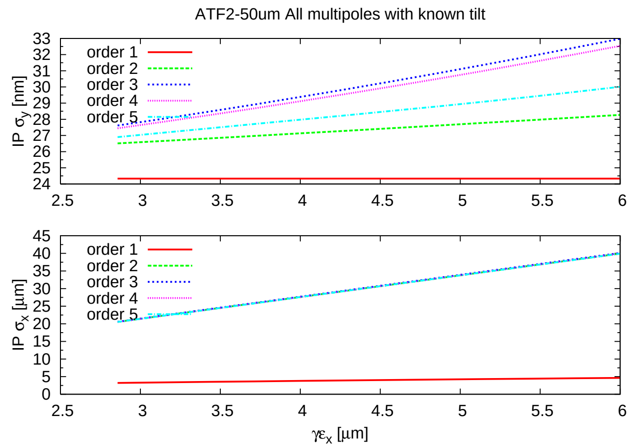

Figure 4: ATF2 Ultra-low β_y=50μm lattice.

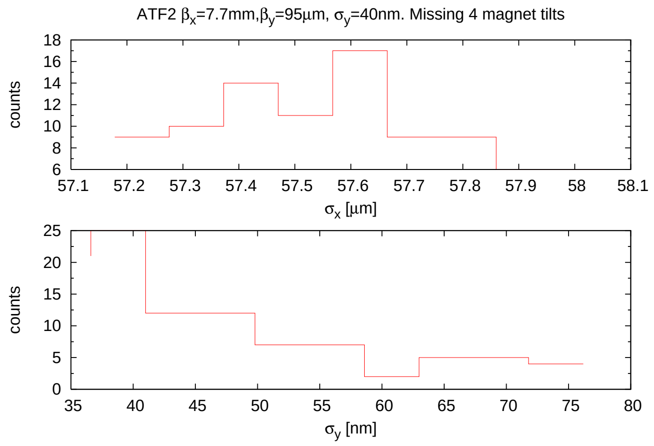

Figure 5: ATF2 Nominal β_y=95μm lattice.

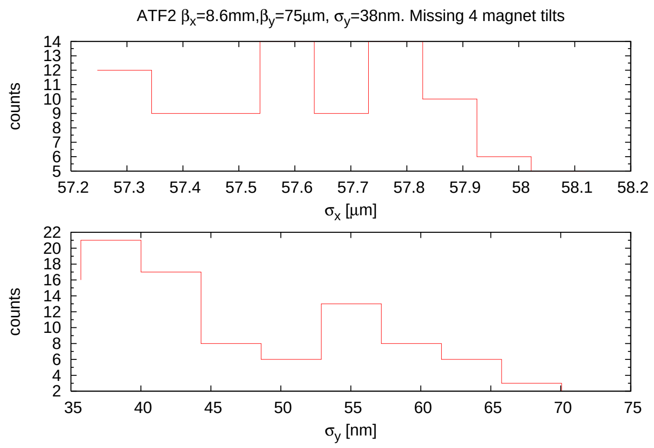

Figure 6: ATF2 Ultra-low β_y=75μm lattice.

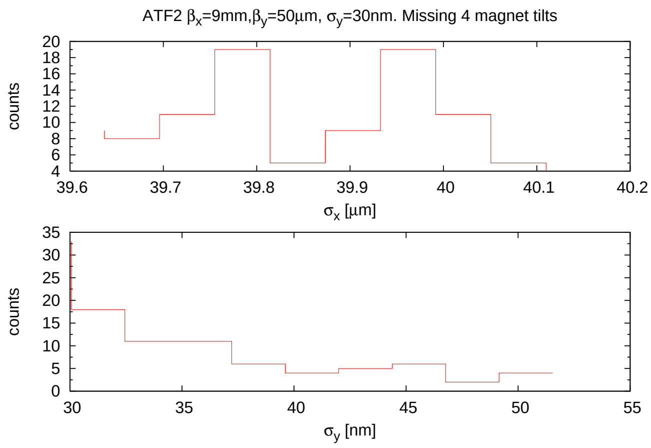

Figure 8: ATF2 Ultra-low β_y=50μm lattice.

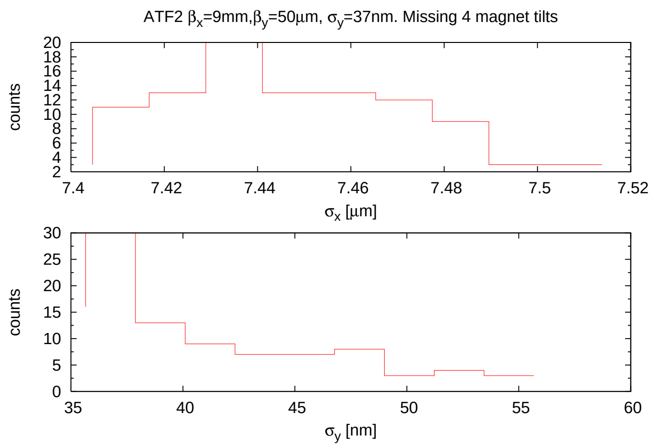

Figure 7: ATF2 Ultra-low β_y=50μm lattice.