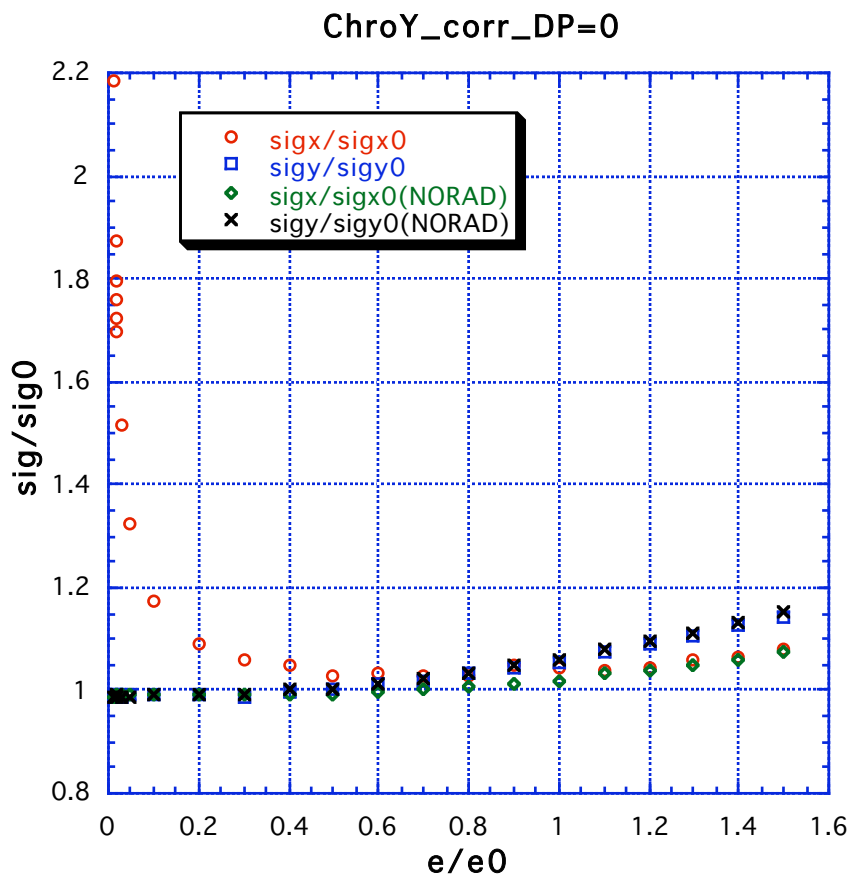


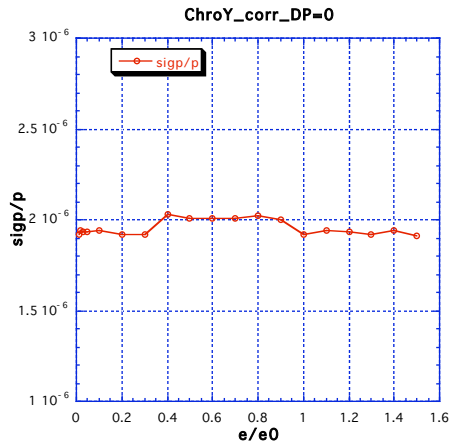
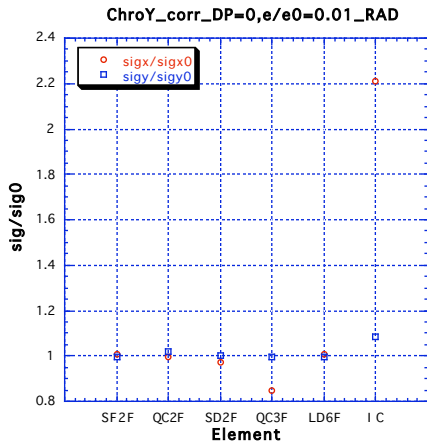
Chromaticity($4 \pi \xi$)

		ATF2			NLC/GLC
		Original	ξ_y correction	ξ_x correction	
X	SD	11.432	-4884.058	3853.188	11704.823
	QF	-2508.024	-1868.472	-2505.779	-5966.352
	SF	-2.003	-891.897	-690.983	-3886.095
	QD	351.254	261.687	350.943	1320.736
	Total	49.893	-151.148	-43.261	-31.063
Y	SD	-13.732	-7637.635	-4076.502	-18419.319
	QF	3471.932	3367.207	3055.079	12167.143
	SF	60.701	35193.650	18446.402	51772.3
	QD	-29386.183	-28500.133	-25858.152	-56556.217
	Total	166.022	168.529	142.583	-2.831

ξ_y correction

Coupling=1%, DP=0

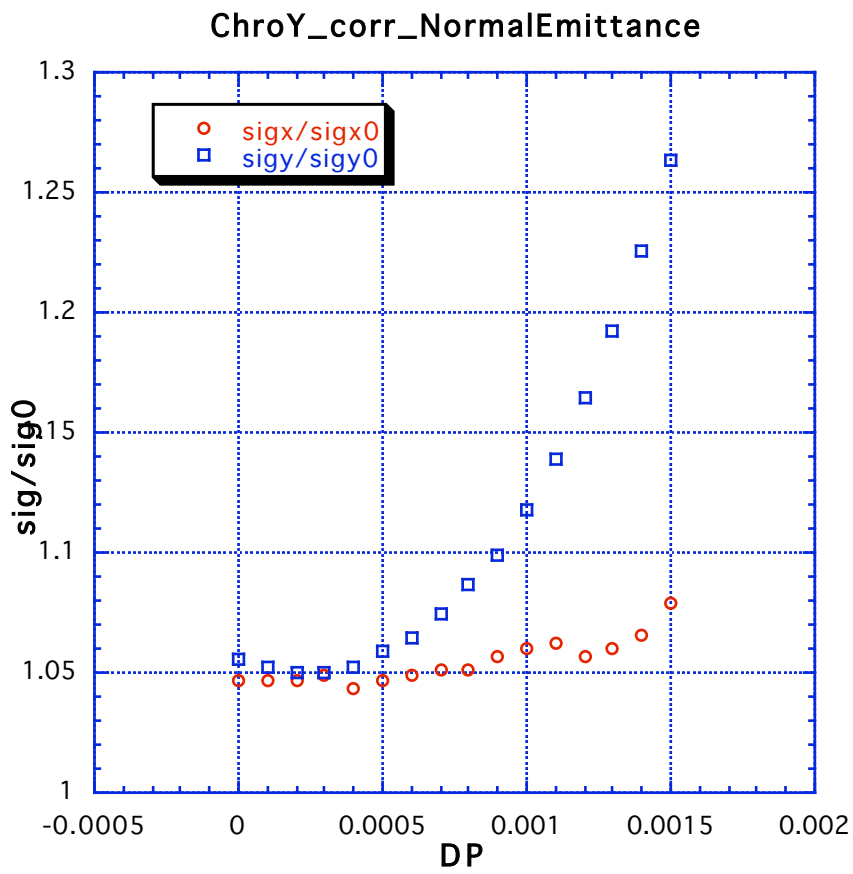




Normal Emittance

Gaussian beam

Normalized with Sqrt[$\beta\epsilon$]



Vibration Tolerance

		ATF2	NLC/GLC
DRIFT	ΔL	100 μm	76 μm
BEND	$\Delta K0/K0$	1e-5	8.7e-5 (1.25e-4)
	$\Delta\theta$	0.3mrad	
QUAD	$\Delta K1/K1$	1e-4	1e-4 (2e-5)
	Δx	10 μm	2 μm (0.07 μm)
	Δy	10 μm	0.2 μm (0.002 μm)
	$\Delta\theta$	0.1mrad	0.1mrad (6 μm)
SEXT	$\Delta K2/K2$	5e-3	7e-3
	Δx	10 μm	2 μm (30 μm)
	Δy	10 μm	0.6 μm (10 μm)
	$\Delta\theta$	1mrad	0.9 mrad

The above values are determined as the beam sizes grow up to;

$$(\sigma_x, \sigma_y) = (4 \mu\text{m}, 40\text{nm}) \text{ for ATF2}$$

$$= (300 \text{ nm}, 4\text{nm}) \text{ for NLC/GLC}$$

Exception: BEND for NLC/GLC

$$(\sigma_x, \sigma_y) = (230 \text{ nm}, 3\text{nm})$$

The values in () are the ones that make the orbit to displace by 1σ .