

Kyma Analysis Report

Name : 1991b

Date : 24. feb 2020

Temperature : 23.0

Filename : 1991b-TPF-UFCM_20200224

Waves analysed : Bz309,Bx309,Izmes42,Ixmes42

Gap [mm] : 200

Phase [mm] : 10 Hall Z [mm] : 0 Peak Field Bx: 0.09143 T

RMS Phase Error : 1.39 deg

Taper [mm] : 0 Hall X [mm]: 12 Delta Bx/Bx : 6.5 %

Fund. En. (B2E) : $3765.0 \text{ eV} = 0.3 \text{ nm}$

Peak Field Bz: 0.04955 T

Radiation wavelength (lin. fit): 0.3 nm

Undulator Period : 21.98+-0.36 mm Delta Bz/Bz : 20.4 %

Peaks used : 102

e-beam energy : 3 GeV

Bx Taper : -69.833 G/m

Bz Taper : 10.282 G/m

Krms : 0.151

V Dipole : -7.4 G cm

Iz(coil) : -7.8 G cm

Pred. C.C. currents

V Quadrupole : 52.1 G

$$I_z(\text{BzC}): -7.7 \text{ Gcm} \quad I_z(\text{Bz}): -17.9 \text{ G cm}$$

I1 : -1.0064 A

V Sextupole : 54.6 G/cm

$I_x(\text{coil}) : 20.4 \text{ G cm}$

I2 : -1.7745 A

$$I_x(B_xC) : 20.4 \text{ Gcm} \quad I_x(B_x) : 81.7 \text{ G cm}$$

H Dipole : 5.6 G cm

$$\Pi_X(sB_X) : 0.2732 \text{ G m}^2$$

I3 : 0.4313 A

H Quadrupole : -118.0 G

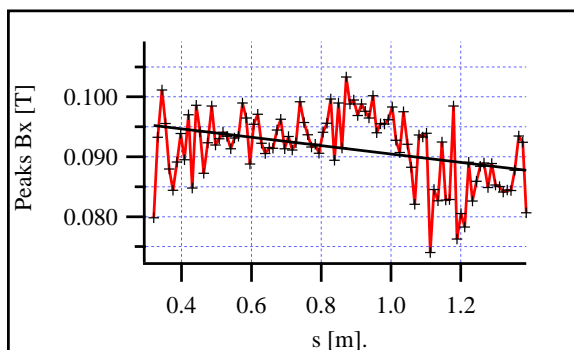
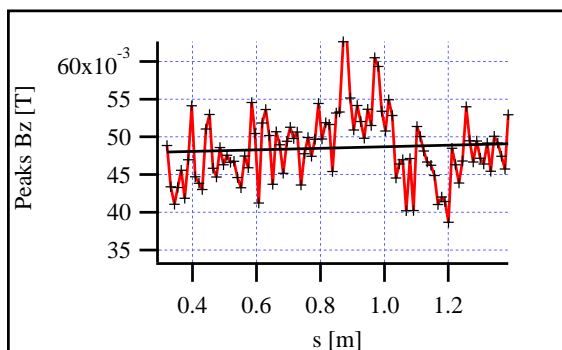
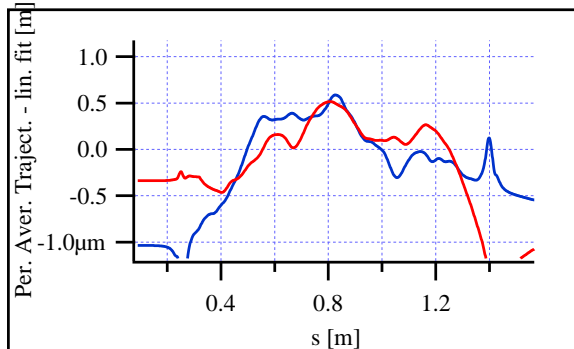
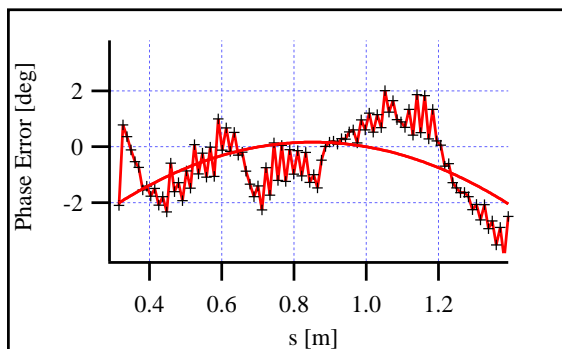
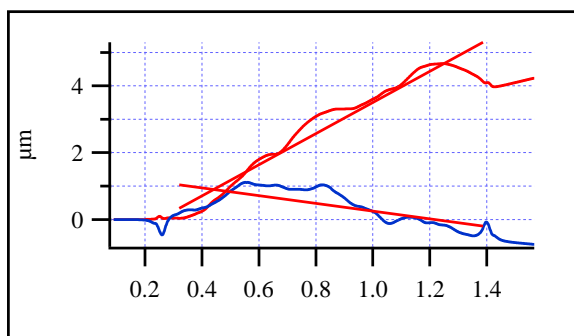
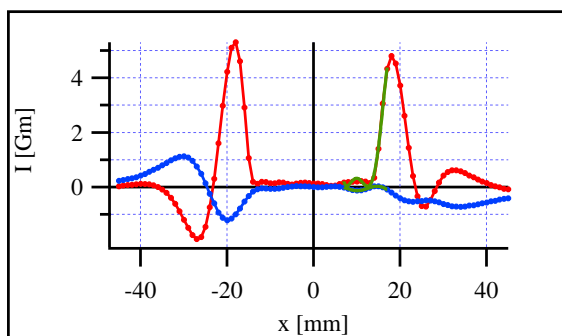
 $\Pi_z(\text{sBz}): -0.0175 \text{ G m}^2$

I4 : -0.0583 A

H Sextupole : 886.0 G/cm

BzTrj RMS dev. : 0.3 um

BxTrj RMS dev. : 0.3 um



Kyma Srl

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