

# Kyma Analysis Report

Name : 1991b

Date : 24. feb 2020

Temperature : 23.0

Filename : 1991b-TPF-UFCM 20200224

Waves analysed : Bz257,Bx257,Izmes35,Ixmes35

Gap [mm] : 200

Phase [mm]: 8 Hall Z [mm]: 1 Peak Field Bx: 0.00117 T

Taper [mm] : 0    Hall X [mm]: 5    Delta Bx/Bx : 67.0 %

Peak Field Bz: 0.31773 T

Undulator Period : 22.00+-0.05 mm

Delta Bz/Bz : 11.8 %

e-beam energy : 3 GeV

Bx Taper : -2.300 G/m

RMS Phase Error : 6.18 deg

Fund. En. (B2E) : 3189.9 eV = 0.4 nm

Radiation wavelength (lin. fit): 0.4 nm

Peaks used : 104

Bz Taper : -0.334 G/m

V Dipole : 2.1 G cm

Iz(coil) : 2.2 G cm

Pred. C.C. currents

V Quadrupole : -12.4 G

$$I_z(\text{BzC}): 2.3 \text{ G cm} \quad I_z(\text{Bz}): 9.8 \text{ G cm}$$

I1 : 1.1744 A

V Sextupole : -91.8 G/cm

Ix(coil) : 5.7 G cm

I2 : -1.7794 A

$$I_x(BxC) : 5.7 \text{ Gcm} \quad I_x(Bx) : 633.9 \text{ G cm}$$

H Dipole : 9.6 G cm

$$\Pi_X(sB_X) : 0.0469 \text{ G m}^2$$

I3 : -1.6896 A

H Quadrupole : -7.4 G

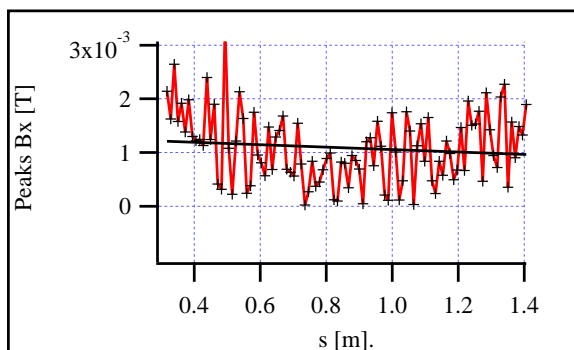
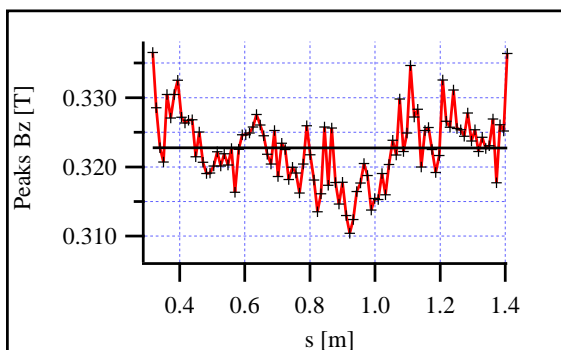
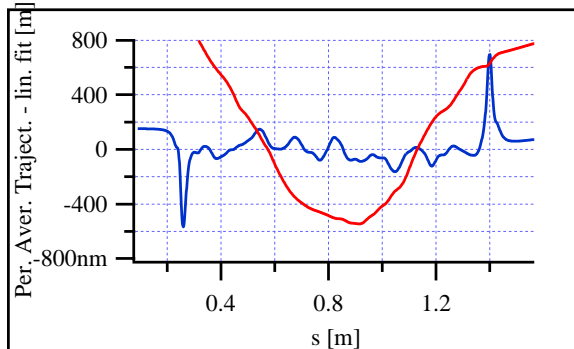
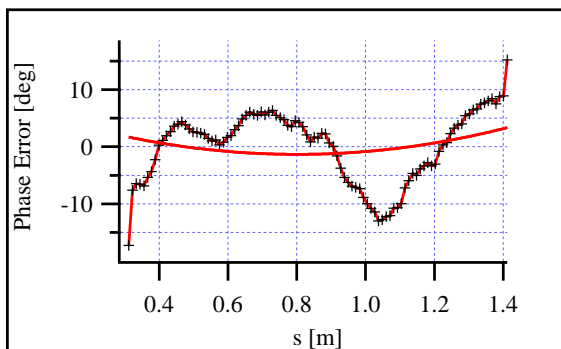
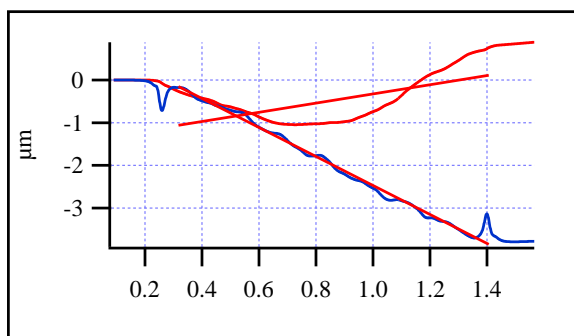
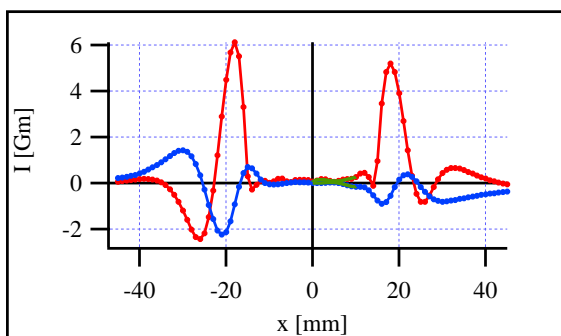
 $\Pi_z(\text{sBz}): -0.3946 \text{ G m}^2$ 

I4 : 1.6255 A

H Sextupole : 100.0 G/cm

BzTrj RMS dev. : 0.1 um

BxTrj RMS dev. : 0.4 um



Kyma Srl

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