

# Kyma Analysis Report

Name : 1991b

Date : 24. feb 2020

Temperature : 23.0

Filename : 1991b-TPF-UFCM 20200224

Waves analysed : Bz315,Bx315,Izmes5,Ixmes5

Gap [mm] : 200

Phase [mm] : 1 Hall Z [mm] : -1 Peak Field Bx: 0.04354 T

RMS Phase Error : 5.90 deg

Taper [mm] : 0    Hall X [mm]: 12    Delta Bx/Bx : 4.5 %

Fund. En. (B2E) : 2015.4 eV = 0.6 nm

Peak Field Bz: 0.65566 T

Radiation wavelength (lin. fit): 0.6 nm

Undulator Period : 22.00+-0.03 mm Delta Bz/Bz : 1.5 %

Peaks used : 103

e-beam energy : 3 GeV

Bx Taper : 14.334 G/m

Bz Taper : -25.446 G/m

Krms : 0.955

V Dipole : -1.0 G cm

Iz(coil) : -3.3 G cm

Pred. C.C. currents

V Quadrupole : 214.7 G

$$I_z(\text{BzC}): -3.2 \text{ Gcm} \quad I_z(\text{Bz}): -7.3 \text{ G cm}$$

I1 : -1.5463 A

V Sextupole : 525.8 G/cm

$I_x(\text{coil}) : 10.4 \text{ G cm}$

I2 : -1.2777 A

$$I_x(B_xC) : 10.4 \text{ Gcm} \quad I_x(B_x) : 280.0 \text{ G cm}$$

H Dipole : -13.5 G cm

$$\Pi_X(sB_X) : 0.3830 \text{ G m}^2$$

I3 : 1.1972 A

H Quadrupole : -274.7 G

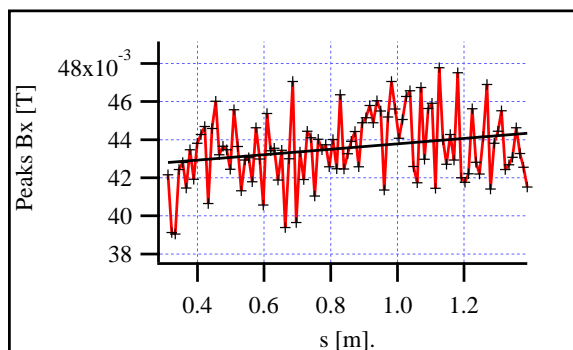
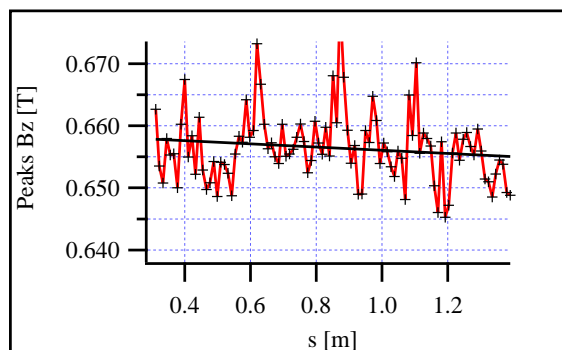
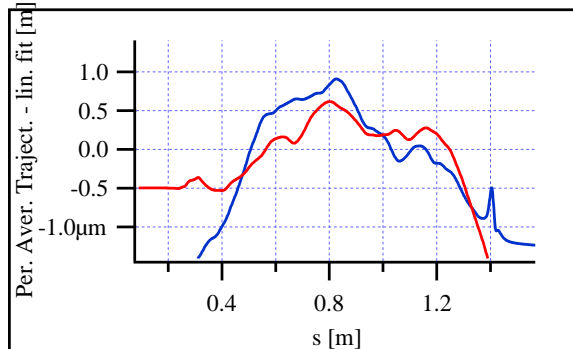
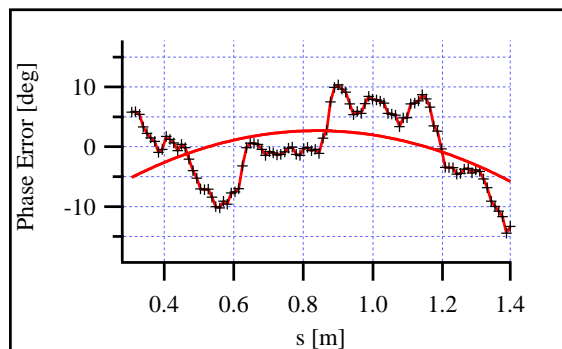
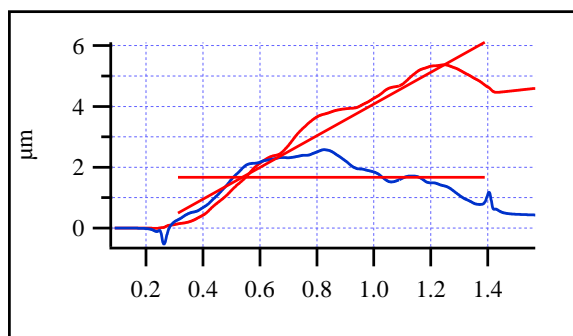
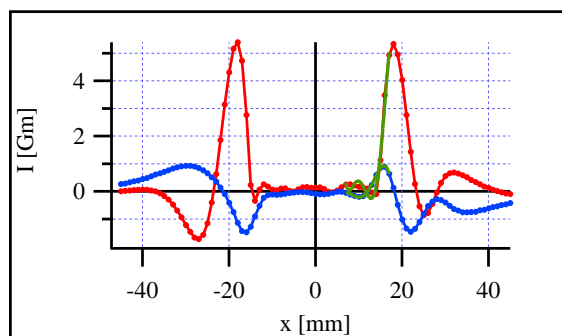
$$\Pi_Z(\text{sBz}): 0.0671 \text{ G m}^2$$

I4 : 0.4000 A

H Sextupole : 1002.0 G/cm

BzTrj RMS dev. : 0.6 um

BxTrj RMS dev. : 0.4 um



Kyma Srl

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