

# Kyma Analysis Report

Name : 1991b

Date : 24. feb 2020

Temperature : 23.0

Filename : 1991b-TPF-UFCM 20200224

Waves analysed : Bz135,Bx135,Izmes30,Ixmes30

Gap [mm] : 200

Phase [mm] : 7    Hall Z [mm] : 0    Peak Field Bx: 0.00804 T

Taper [mm] : 0    Hall X [mm]: 5    Delta Bx/Bx : 9.8 %

Peak Field Bz: 0.35556 T

Undulator Period : 22.00+-0.04 mm

Delta Bz/Bz : 1.3 %

e-beam energy : 3 GeV

Bx Taper : 2.320 G/m

Krms : 0.517

RMS Phase Error : 3.37 deg

Fund. En. (B2E) : 3063.0 eV = 0.4 nm

Radiation wavelength (lin. fit): 0.4 nm

Peaks used : 102

Bz Taper : 15.547 G/m

V Dipole : 0.4 G cm

Iz(coil) : 0.6 G cm

Pred. C.C. currents

V Quadrupole : -1.6 G

$$I_z(\text{BzC}): 0.6 \text{ G cm} \quad I_z(\text{Bz}) : 19.5 \text{ G cm}$$

I1 : 0.2962 A

V Sextupole : -89.1 G/cm

$I_x(\text{coil}) : 10.0 \text{ G cm}$

I2 : -1.3951 A

$$I_x(B_xC) : 10.0 \text{ Gcm} \quad I_x(B_x) : 790.4 \text{ G cm}$$

H Dipole : 11.4 G cm

$$\Pi_X(sB_X) : 0.0884 \text{ G m}^2$$

I3 : -0.9349 A

H Quadrupole : 38.6 G

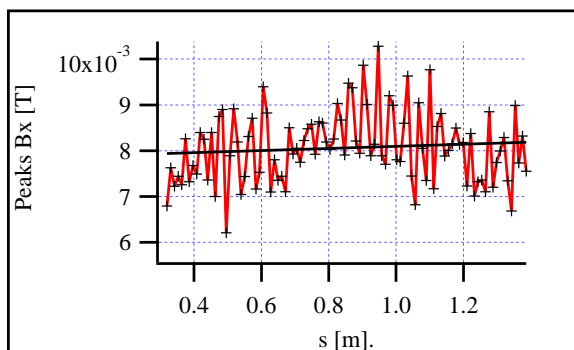
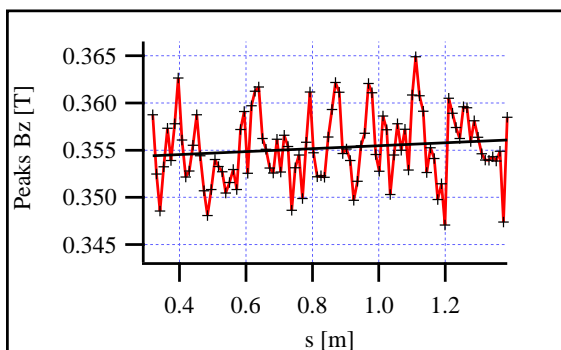
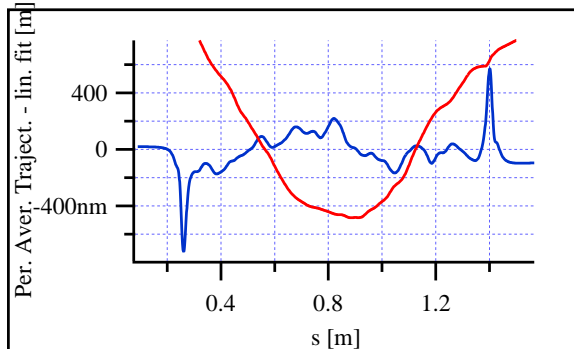
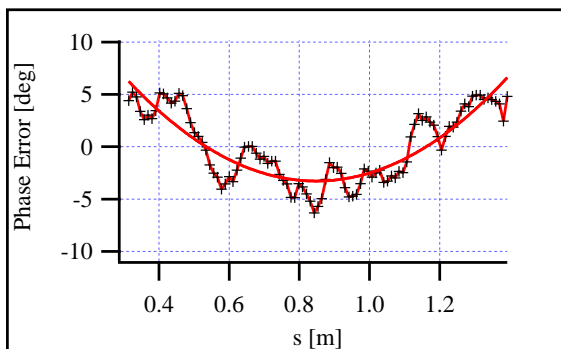
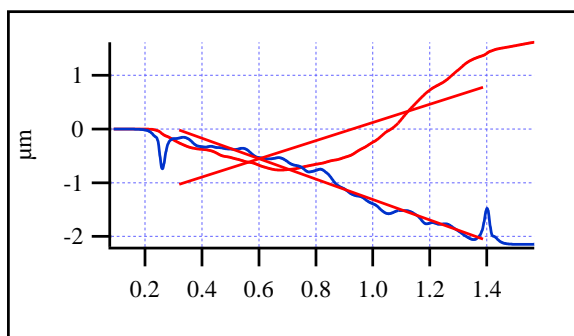
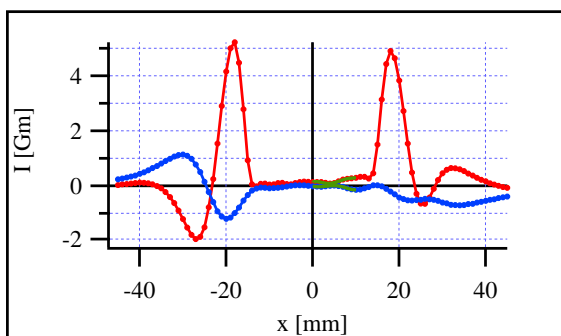
$$\Pi_z(\text{sBz}): -0.2192 \text{ G m}^2$$

I4 : 0.8560 A

H Sextupole : 111.6 G/cm

BzTrj RMS dev. : 0.1 um

BxTrj RMS dev. : 0.4 um



Kyma Srl

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