

# Kyma Analysis Report

Name : 1991b

Date : 24. feb 2020

Temperature : 23.0

Filename : 1991b-TPF-UFCM 20200224

Waves analysed : Bz57,Bx57,Izmes17,Ixmes17

Gap [mm] : 200

Phase [mm] : 4 Hall Z [mm] : -1 Peak Field Bx: 0.00482 T

RMS Phase Error : 4.98 deg

Taper [mm] : 0    Hall X [mm]: -5    Delta B<sub>x</sub>/B<sub>x</sub> : 17.2 %

Peak Field Bz: 0.61134 T

Fund. En. (B2E) : 2169.2 eV = 0.6 nm

Radiation wavelength (lin. fit): 0.6 nm

Undulator Period : 22.00+-0.03 mm Delta Bz/Bz : 1.4 %

Peaks used : 103

e-beam energy : 3 GeV

Bx Taper : 4.111 G/m

Bz Taper : -16.882 G/m

V Dipole : -1.1 G cm

Iz(coil) : -1.6 G cm

Pred. C.C. currents

V Quadrupole : 24.5 G

$$I_z(\text{BzC}): -1.6 \text{ Gcm} \quad I_z(\text{Bz}) : 14.8 \text{ G cm}$$

I1 : 0.6813 A

V Sextupole : -42.6 G/cm

Ix(coil) : 1.0 G cm

I2 : -1.2657 A

$$I_X(BXC) : 1.0 \text{ Gcm} \quad I_X(BX) : 814.2 \text{ G cm}$$

H Dipole : 6.1 G cm

$$\Pi_X(sB_X) : 0.0910 \text{ G m}^2$$

I3 : -0.6093 A

H Quadrupole : 12.2 G

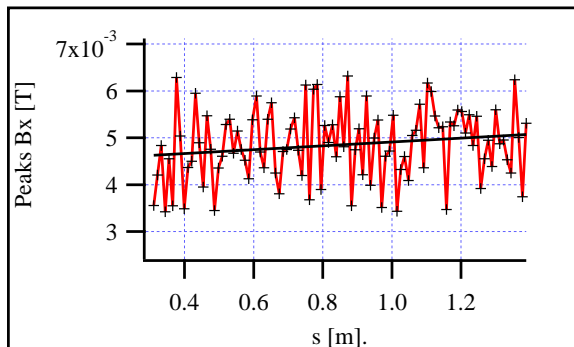
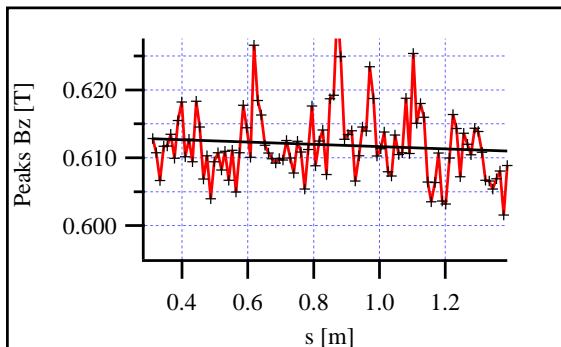
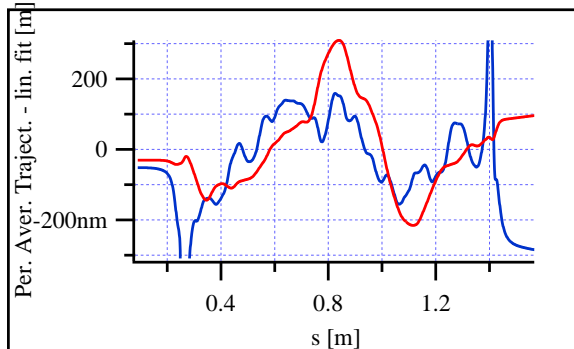
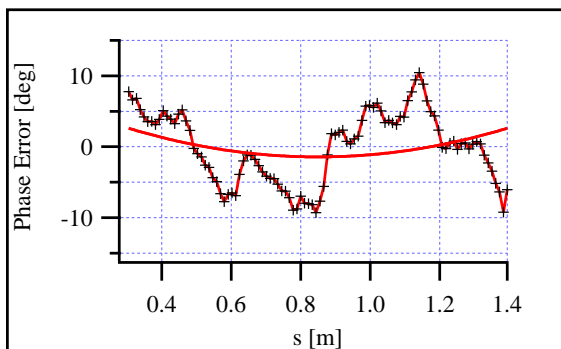
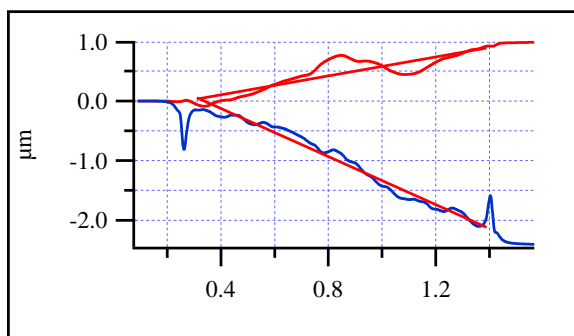
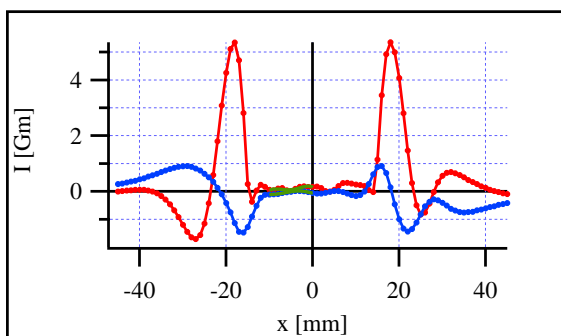
$$\Pi_z(\text{sBz}): -0.2286 \text{ G m}^2$$

I4 : 1.0755 A

H Sextupole : 104.3 G/cm

BzTrj RMS dev. : 0.1 um

BxTrj RMS dev. : 0.1 um



Kyma Srl

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