

# Kyma Analysis Report

Name : 1991b

Date : 24. feb 2020

Temperature : 23.0

Filename : 1991b-TPF-UFCM 20200224

Waves analysed : Bz165,Bx165,Izmes42,Ixmes42

Gap [mm] : 200

Phase [mm] : 10 Hall Z [mm] : 0 Peak Field Bx: 0.00505 T

RMS Phase Error : 1.46 deg

Taper [mm] : 0      Hall X [mm]: 0

Delta B<sub>x</sub>/B<sub>x</sub> : 14.1 %

Fund. En. (B2E) : 3846.3 eV = 0.3 nm

Peak Field Bz: 0.06628 T

Radiation wavelength (lin. fit): 0.3 nm

Undulator Period : 22.01+-0.22 mm

Delta Bz/Bz : 13.4 %

Peaks used : 102

e-beam energy : 3 GeV

Bx Taper : 4.627 G/m

Bz Taper : 42.445 G/m

Krms : 0.097

V Dipole : -0.2 G cm

Iz(coil) : -0.3 G cm

Pred. C.C. currents

V Quadrupole : -13.4 G

$$I_z(\text{BzC}): -0.3 \text{ Gcm} \quad I_z(\text{Bz}): 7.1 \text{ G cm}$$

I1 : 0.3864 A

V Sextupole : 35.9 G/cm

$I_x(\text{coil}) : 13.2 \text{ G cm}$

I2 : -1.1485 A

$$I_x(BxC) : 13.2 \text{ Gcm} \quad I_x(Bx) : 188.0 \text{ G cm}$$

H Dipole : 14.2 G cm

$$\Pi_X(sB_X) : -0.0028 \text{ G m}^2$$

I3 : -1.1364 A

H Ouadrupole : -12.9 G

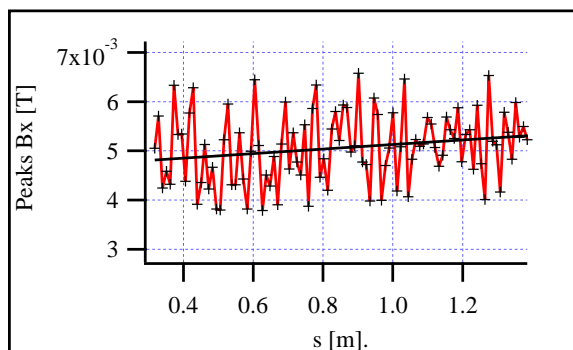
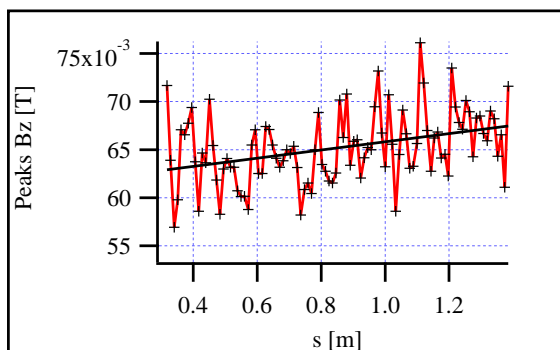
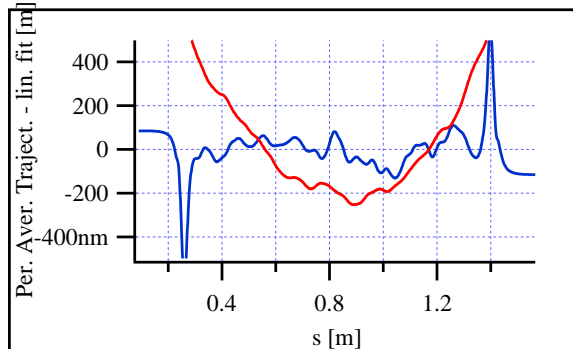
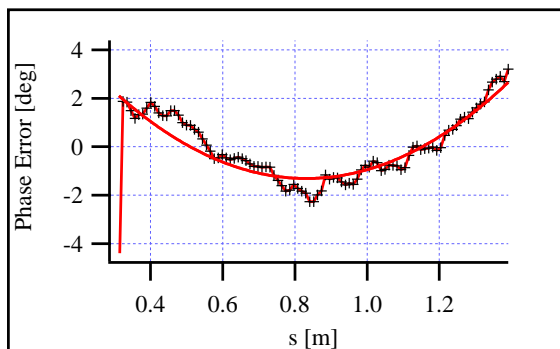
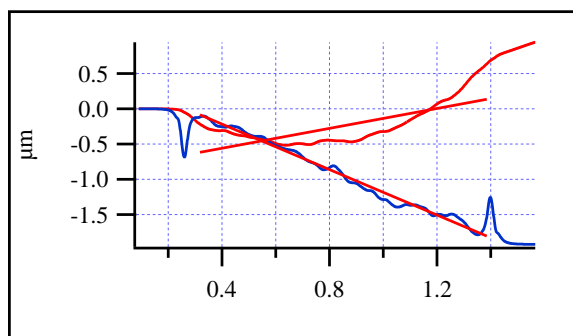
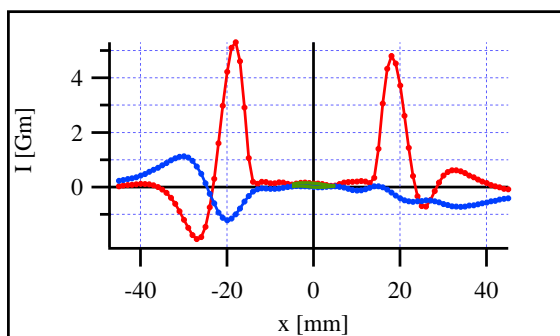
IIz(sBz): -0.1897 G m<sup>2</sup>

$$I_4 : 0.3425 \text{ A}$$

H Sextupole : -31.0 G/cm

BzTrj RMS dev. : 0.1 um

BxTrj RMS dev. : 0.2 um



Kyma Srl

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