

# Kyma Analysis Report

Name : 1991b

Date : 24. feb 2020

Temperature : 23.0

Filename : 1991b-TPF-UFCM 20200224

Waves analysed : Bz237,Bx237,Izmes43,Ixmes43

Gap [mm] : 200

Phase [mm] : 10 Hall Z [mm] : 1 Peak Field Bx: 0.00376 T

Taper [mm] : 0    Hall X [mm]: 0    Delta Bx/Bx : 20.9 %

Peak Field Bz: 0.18920 T

Undulator Period : 22.00+-0.08 mm

Delta Bz/Bz : 12.4 %

e-beam energy : 3 GeV

Bx Taper : 2.501 G/m

Krms : 0.275

RMS Phase Error : 6.90 deg

Fund. En. (B2E) : 3599.5 eV = 0.3 nm

Radiation wavelength (lin. fit): 0.3 nm

Peaks used : 104

Bz Taper : -8.547 G/m

V Dipole : -0.6 G cm

Iz(coil) : -1.0 G cm

Pred. C.C. currents

V Quadrupole : -8.5 G

$$I_z(\text{BzC}): -0.9 \text{ Gcm} \quad I_z(\text{Bz}): -5.8 \text{ G cm}$$

I1 : 1.2454 A

V Sextupole : 27.2 G/cm

$I_x(\text{coil}) : 5.8 \text{ G cm}$

I2 : -1.2722 A

$$I_x(B_xC) : 5.8 \text{ Gcm} \quad I_x(B_x) : 180.3 \text{ G cm}$$

H Dipole : 9.4 G cm

$$\Pi_X(sB_X) : -0.0544 \text{ G m}^2$$

I3 : -1.5089 A

H Quadrupole : 0.6 G

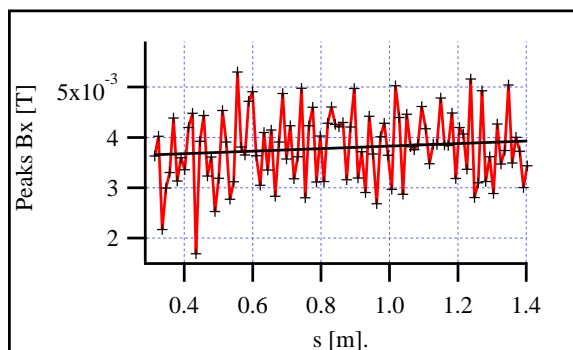
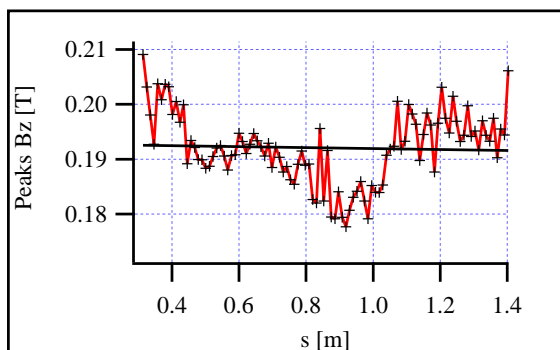
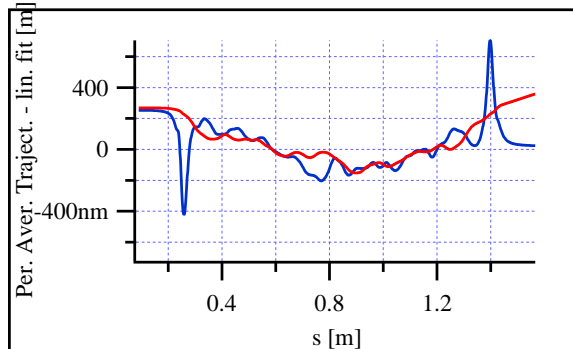
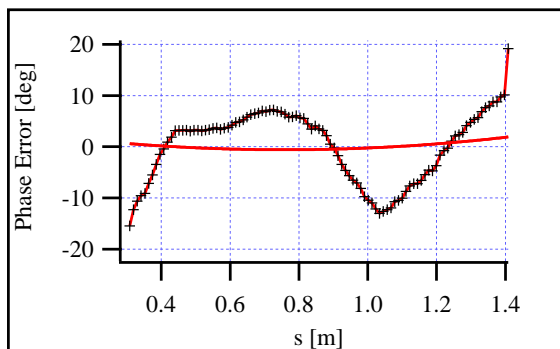
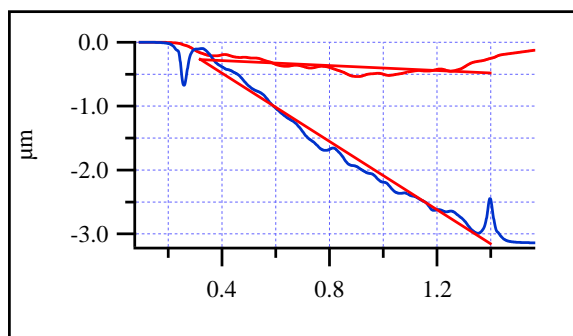
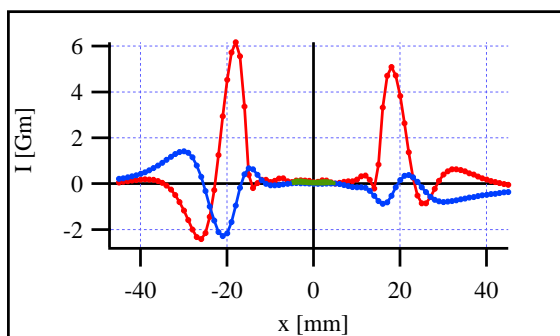
$$\Pi_z(sBz): -0.3072 \text{ G m}^2$$

I4 : 0.8540 A

H Sextupole : 85.6 G/cm

BzTrj RMS dev. : 0.1 um

BxTrj RMS dev. : 0.1 um



Kyma Srl

S.S. 14 km 163,5 in Area Science Park – IT-34149 Trieste, Italy - VAT no.: IT-01131640326  
Voice: +39.040.375.8796 – Fax: +39.040.375.8029 – E-mail: [info@kvma-undulators.eu](mailto:info@kvma-undulators.eu) – web: [www.kvma-undulators.eu](http://www.kvma-undulators.eu)