

Kyma Analysis Report

Name : 1991b

Date : 24. feb 2020

Temperature : 23.0

Filename : 1991b-TPF-UFCM_20200224

Waves analysed : Bz143,Bx143,Izmes46,Ixmes46

Gap [mm] : 200

Phase [mm] : 11 Hall Z [mm] : 0 Peak Field Bx: 0.00262 T

RMS Phase Error : 0.75 deg

Taper [mm] : 0 Hall X [mm]: 5

Delta B_x/B_x : 101.3 %

Fund. En. (B2E) : 3871.8 eV = 0.3 nm

Peak Field Bz: 0.03978 T

Radiation wavelength (lin. fit): 0.3 nm

Undulator Period : 21.98+-0.45 mm

Delta Bz/Bz : 33.1 %

Peaks used : 104

e-beam energy : 3 GeV

Bx Taper : 3.573 G/m

Bz Taper : -52.944 G/m

Krms : 0.058

V Dipole : 0.8 G cm

Iz(coil) : 1.0 G cm

Pred. C.C. currents

V Quadrupole : -3.7 G

$$I_z(\text{BzC}): 1.1 \text{ Gcm} \quad I_z(\text{Bz}): 0.2 \text{ G cm}$$

I1 : 0.5047 A

V Sextupole : -84.0 G/cm

$I_x(\text{coil}) : 3.8 \text{ G cm}$

I2 : -1.2376 A

$$I_x(BxC) : 3.8 \text{ Gcm} \quad I_x(Bx) : -92.4 \text{ G cm}$$

H Dipole : 5.3 G cm

$$\Pi_X(sB_X) : 0.0878 \text{ G m}^2$$

I3 : -0.8146 A

H Quadrupole : 24.5 G

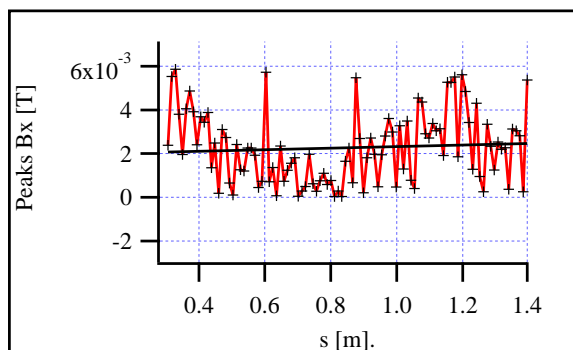
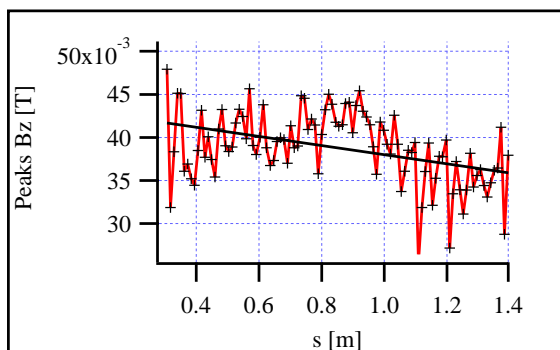
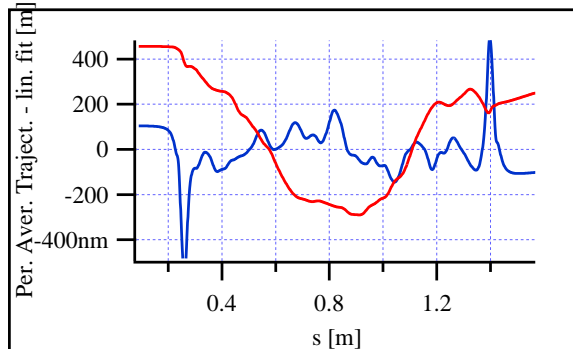
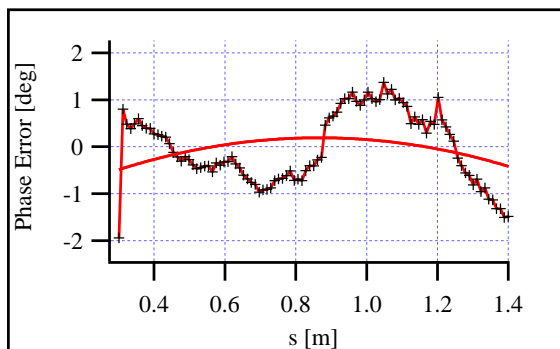
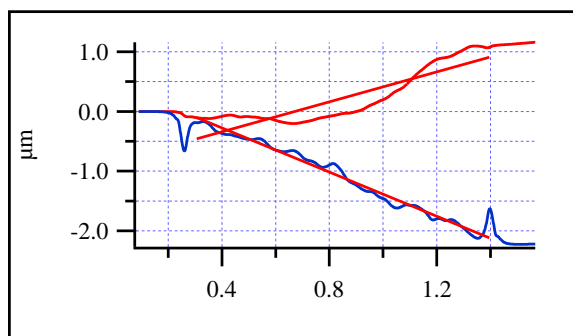
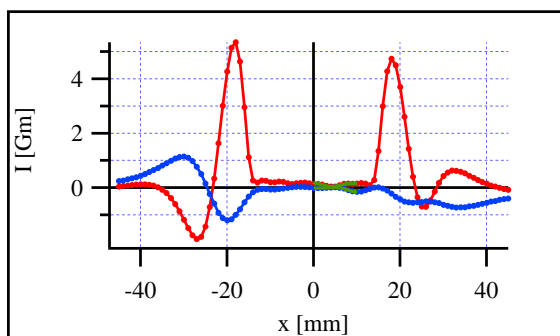
 $\mu_z(sBz): -0.2299 \text{ G m}^2$

I4 : 1.0951 A

H Sextupole : 106.8 G/cm

BzTrj RMS dev. : 0.1 um

BxTrj RMS dev. : 0.2 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 – web: www.kvma-undulators.eu