

Kyma Analysis Report

Name : 1991b

Date : 24. feb 2020

Temperature : 23.0

Filename : 1991b-TPF-UFCM 20200224

Waves analysed : Bz69,Bx69,Izmes41,Ixmes41

Gap [mm] : 200

Phase [mm] : 10 Hall Z [mm] : -1 Peak Field Bx: 0.01180 T

RMS Phase Error : 6.87 deg

Taper [mm] : 0 Hall X [mm]: -5 Delta Bx/Bx : 6.8 %

Fund. En. (B2E) : 3524.5 eV = 0.4 nm

Peak Field Bz: 0.21485 T

Radiation wavelength (lin. fit): 0.4 nm

Undulator Period : 22.01+-0.10 mm Delta Bz/Bz : 10.9 %

Peaks used : 104

e-beam energy : 3 GeV

Bx Taper : -4.431 G/m

Bz Taper : 5.031 G/m

Krms : 0.313

V Dipole : 1.2 G cm

Iz(coil) : 1.1 G cm

Pred. C.C. currents

V Quadrupole : 24.7 G

$$I_z(\text{BzC}): 1.1 \text{ Gcm} \quad I_z(\text{Bz}): -0.5 \text{ G cm}$$

I1 : 0.7515 A

V Sextupole : -44.3 G/cm

Ix(coil) : 4.6 G cm

I2 : -1.3900 A

$$I_x(B_xC) : 4.6 \text{ Gcm} \quad I_x(B_x) : 169.7 \text{ G cm}$$

H Dipole : 9.6 G cm

$$\Pi_X(sB_X) : 0.0636 \text{ G m}^2$$

I3 : -1.1105 A

H Quadrupole : 5.4 G

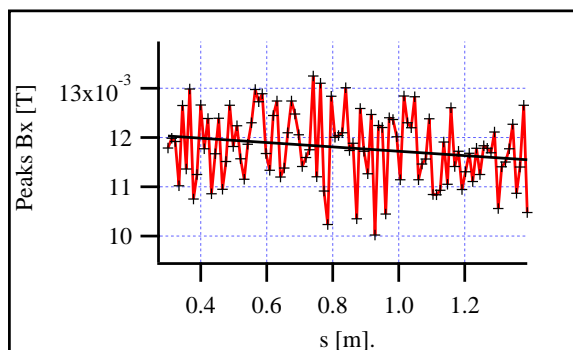
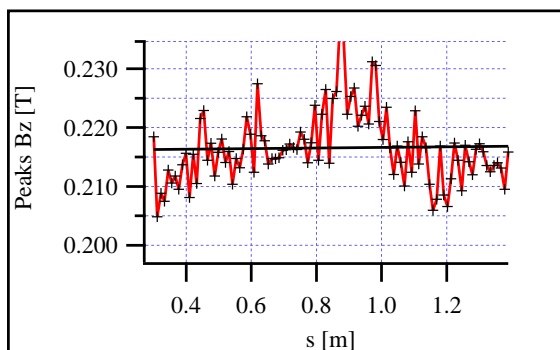
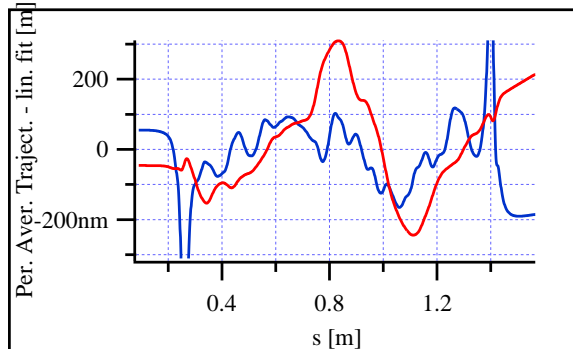
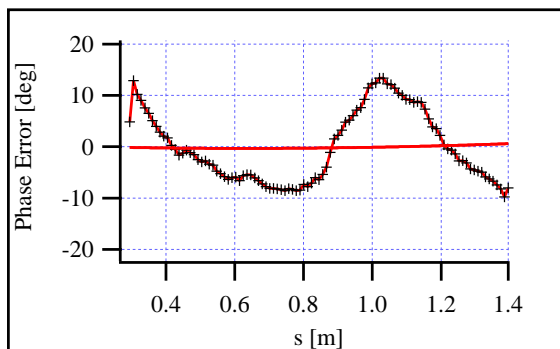
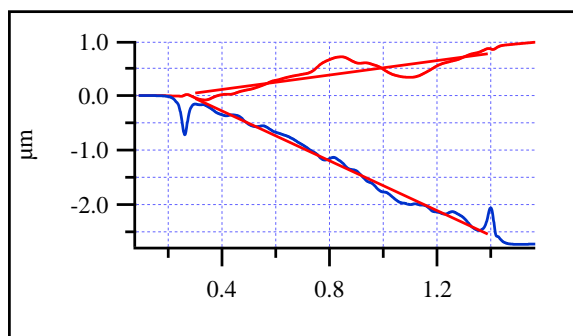
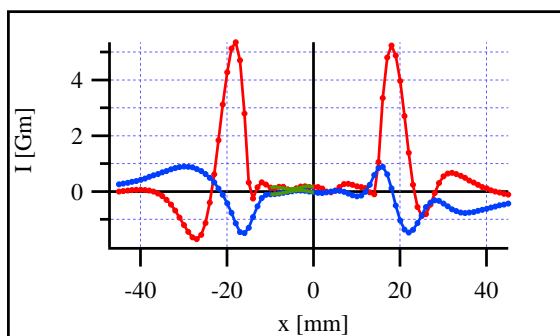
$$\Pi_z(\text{sBz}): -0.2806 \text{ G m}^2$$

I4 : 1.2063 A

H Sextupole : 109.9 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 – web: www.kvma-undulators.eu