

Kyma Analysis Report

Name : 1991b

Date : 24. feb 2020

Temperature : 23.0

Filename : 1991b-TPF-UFCM 20200224

Waves analysed : Bz337,Bx337,Izmes1,Ixmes1

Gap [mm] : 200

Phase [mm] : 0 Hall Z [mm] : -1 Peak Field Bx: 0.02461 T

RMS Phase Error : 3.05 deg

Taper [mm] : 0 Hall X [mm]: -12 Delta Bx/Bx : 7.9 %

Fund. En. (B2E) : $2042.4 \text{ eV} = 0.6 \text{ nm}$

Peak Field Bz: 0.64974 T

Radiation wavelength (lin. fit): 0.6 nm

Undulator Period : 22.00+-0.03 mm Delta Bz/Bz : 1.2 %

Peaks used : 102

e-beam energy : 3 GeV

Bx Taper : -15.229 G/m

Bz Taper : -3.941 G/m

Krms : 0.945

V Dipole : -25.9 G cm

Iz(coil) : -22.6 G cm

Pred. C.C. currents

V Quadrupole : 201.5 G

$$I_z(\text{BzC}): -22.6 \text{ Gcm} \quad I_z(\text{Bz}): 19.5 \text{ G cm}$$

I1 : -0.8250 A

V Sextupole : -621.8 G/cm

$I_x(\text{coil}) : 28.9 \text{ G cm}$

I2 : -0.1227 A

$$I_x(B_xC) : 28.9 \text{ Gcm} \quad I_x(B_x) : 29.1 \text{ G cm}$$

H Dipole : 3.6 G cm

$$\Pi_X(sB_X) : -0.1309 \text{ G m}^2$$

I3 : 0.9547 A

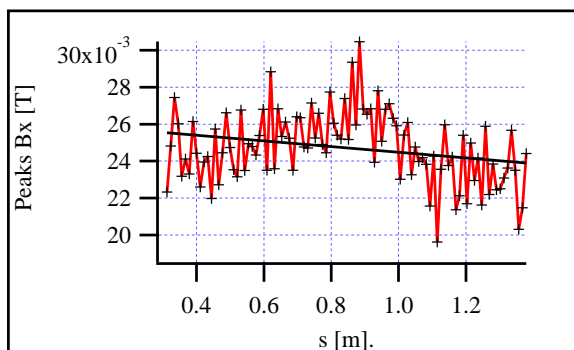
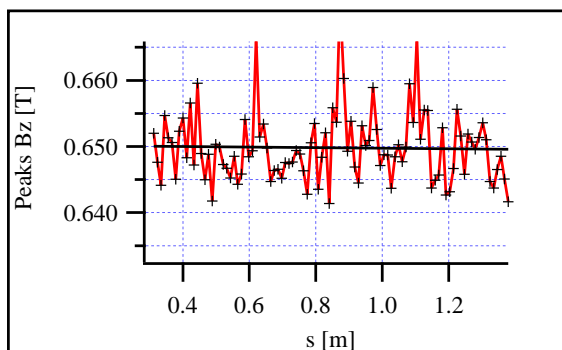
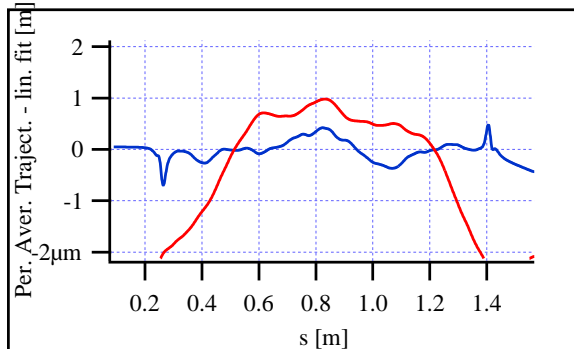
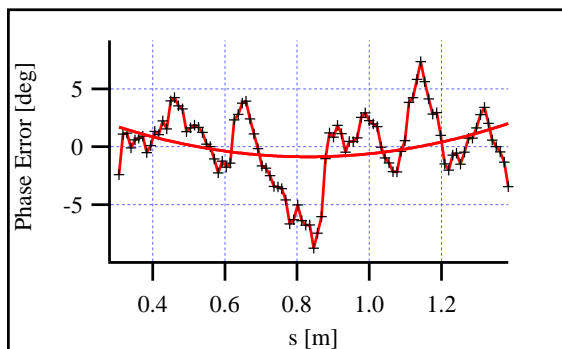
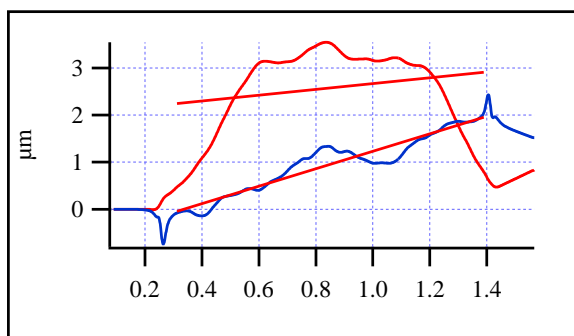
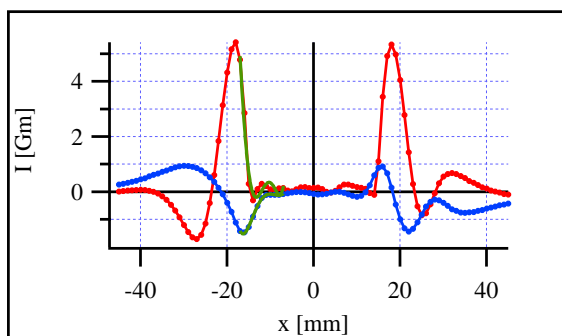
H Quadrupole : 281.7 G

$$\mu_z(sB_z): 0.3191 \text{ G m}^2$$

I4 : -3.4132 A

H Sextupole : 90.2 G/cm

BzTrj 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