

Kyma Analysis Report

Name : 1991b

Date : 24. feb 2020

Temperature : 23.0

Filename : 1991b-TPF-UFCM 20200224

Waves analysed : Bz313,Bx313,Izmes1,Ixmes1

Gap [mm] : 200

Phase [mm] : 0 Hall Z [mm] : -1 Peak Field Bx: 0.04091 T

RMS Phase Error : 5.99 deg

Taper [mm] : 0 Hall X [mm]: 12 Delta Bx/Bx : 4.9 %

Fund. En. (B2E) : 1983.2 eV = 0.6 nm

Peak Field Bz: 0.67002 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 : 16.604 G/m

Bz Taper : -10.662 G/m

Krms : 0.975

V Dipole : 0.0 G cm

Iz(coil) : -1.8 G cm

Pred. C.C. currents

V Quadrupole : 209.7 G

$$I_z(\text{BzC}): -1.8 \text{ Gcm} \quad I_z(\text{Bz}): 5.1 \text{ G cm}$$

I1 : -1.4445 A

V Sextupole : 531.2 G/cm

$I_x(\text{coil}) : 11.1 \text{ G cm}$

I2 : -1.4378 A

$$I_x(B_xC) : 11.1 \text{ Gcm} \quad I_x(B_x) : 83.5 \text{ G cm}$$

H Dipole : -12.8 G cm

$$\Pi_X(sB_X) : 0.3864 \text{ G m}^2$$

I3 : 0.9407 A

H Quadrupole : -275.0 G

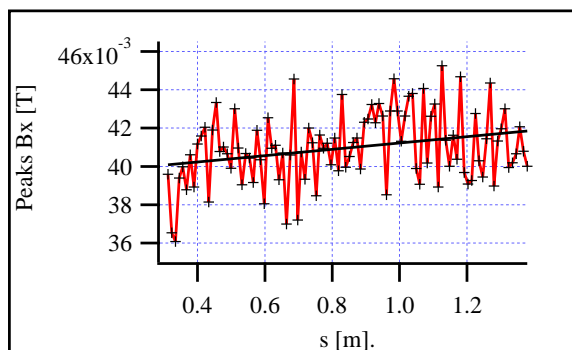
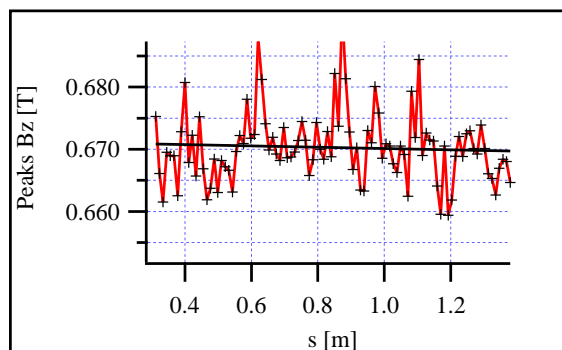
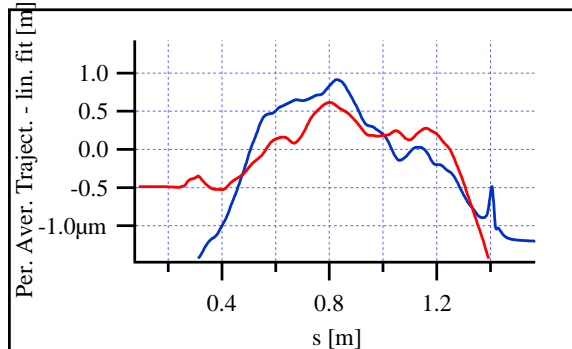
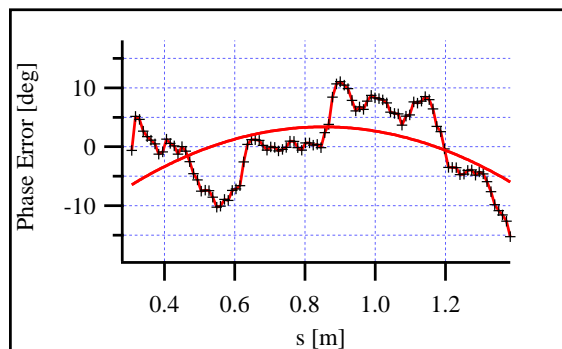
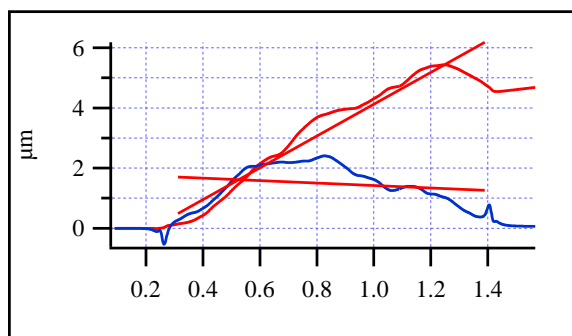
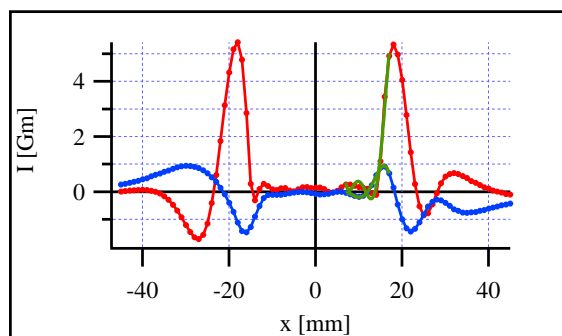
 $\mu_z(sB_z): 0.0195 \text{ G m}^2$

I4 : 0.6370 A

H Sextupole : 979.6 G/cm

BzTrj RMS dev. : 0.6 um

BxTrj RMS dev. : 0.4 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