

Kyma Analysis Report

Name : 1991b

Date : 24. feb 2020

Temperature : 23.0

Filename : 1991b-TPF-UFCM 20200224

Waves analysed : Bz355,Bx355,Izmes37,Ixmes37

Gap [mm] : 200

Phase [mm] : 9 Hall Z [mm] : -1 Peak Field Bx: 0.09108 T

RMS Phase Error : 6.55 deg

Taper [mm] : 0 Hall X [mm]: -12 Delta Bx/Bx : 3.8 %

Fund. En. (B2E) : 3340.0 eV = 0.4 nm

Peak Field Bz: 0.25079 T

Radiation wavelength (lin. fit): 0.4 nm

Undulator Period : 22.01+-0.10 mm Delta Bz/Bz : 9.1 %

Peaks used : 104

e-beam energy : 3 GeV

Bx Taper : -23.666 G/m

Bz Taper : 3.742 G/m

Krms : 0.388

V Dipole : -26.7 G cm

Iz(coil) : -23.7 G cm

Pred. C.C. currents

V Quadrupole : 204.5 G

$$I_z(\text{BzC}): -23.7 \text{ Gcm} \quad I_z(\text{Bz}) : 0.4 \text{ G cm}$$

I1 : -0.4556 A

V Sextupole : -598.0 G/cm

$I_x(\text{coil}) : 27.4 \text{ G cm}$

I2 : -0.4995 A

$$I_x(B_xC) : 27.5 \text{ Gcm} \quad I_x(B_x) : 331.0 \text{ G cm}$$

H Dipole : 3.7 G cm

$$\Pi_X(sB_X) : -0.1146 \text{ G m}^2$$

I3 : 0.7642 A

H Ouadrupole : 264.6 G

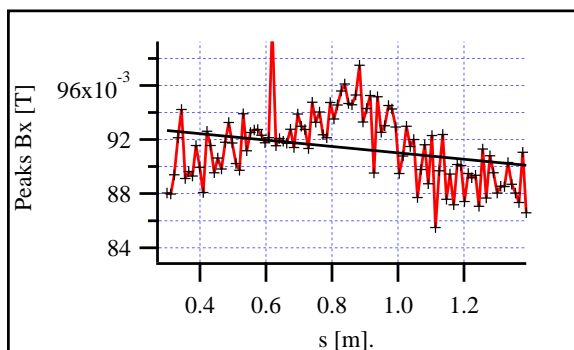
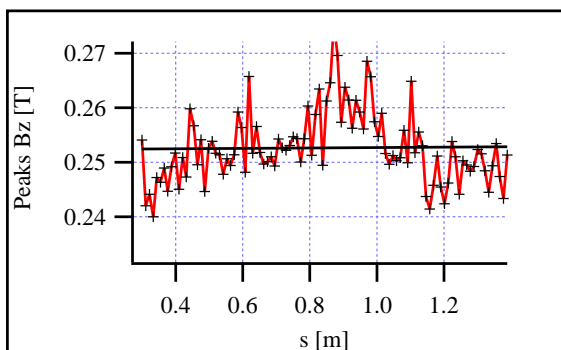
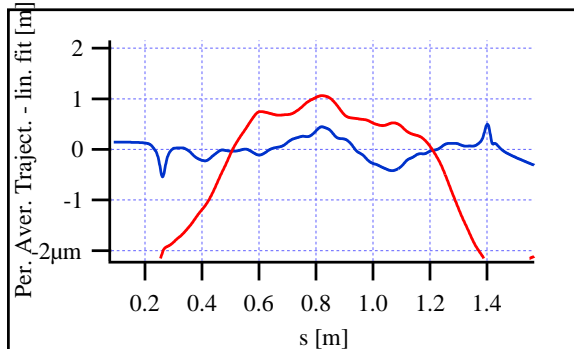
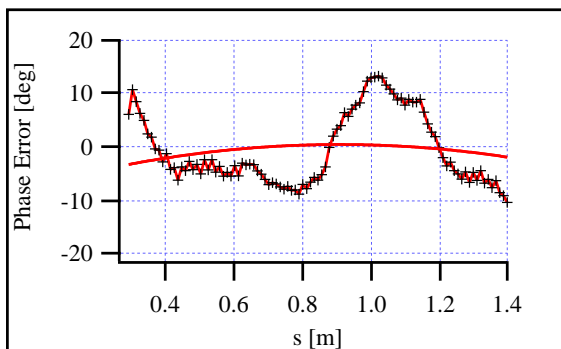
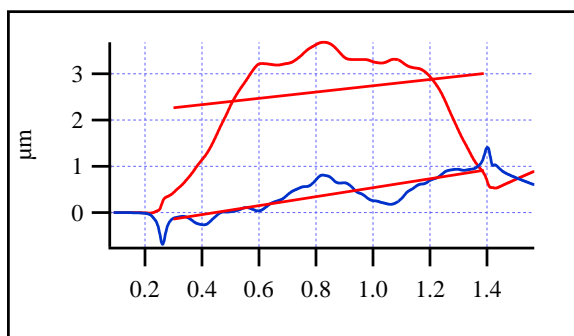
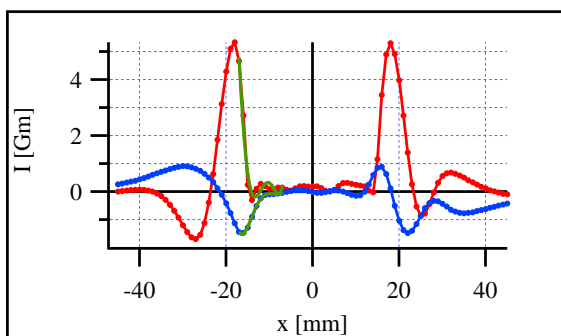
 $\Pi_z(sB_z): 0.2369 \text{ G m}^2$

I4 : -3.0426 A

H Sextupole : 50.5 G/cm

BzTrj RMS dev. : 0.2 um

BxTrj RMS dev. : 0.9 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