

# Kyma Analysis Report

Name : 1991b

Date : 24. feb 2020

Temperature : 23.0

Filename : 1991b-TPF-UFCM 20200224

Waves analysed : Bz385,Bx385,Izmes3,Ixmes3

Gap [mm] : 200

Phase [mm] : 0    Hall Z [mm] : 1    Peak Field Bx: 0.03497 T

RMS Phase Error : 8.27 deg

Taper [mm] : 0    Hall X [mm]: -12 Delta Bx/Bx : 5.4 %

Fund. En. (B2E) : 2058.2 eV = 0.6 nm

Peak Field Bz: 0.64497 T

Radiation wavelength (lin. fit): 0.6 nm

Undulator Period : 22.00+-0.02 mm Delta Bz/Bz : 1.1 %

Peaks used : 102

e-beam energy : 3 GeV

Bx Taper : 11.322 G/m

Bz Taper : 6.709 G/m

Krms : 0.938

V Dipole : 17.0 G cm

Iz(coil) : 13.8 G cm

Pred. C.C. currents

V Quadrupole : -232.4 G

$$I_z(\text{BzC}): 13.8 \text{ Gcm} \quad I_z(\text{Bz}): 29.4 \text{ G cm}$$

I1 : -0.1887 A

V Sextupole : 263.1 G/cm

$I_x(\text{coil}) : 15.0 \text{ G cm}$

I2 : -0.0750 A

$$I_x(B_xC) : 15.0 \text{ Gcm} \quad I_x(B_x) : 18.8 \text{ G cm}$$

H Dipole : -12.0 G cm

$$\Pi_X(sB_X) : -0.1073 \text{ G m}^2$$

I3 : -1.8123 A

H Quadrupole : 318.1 G

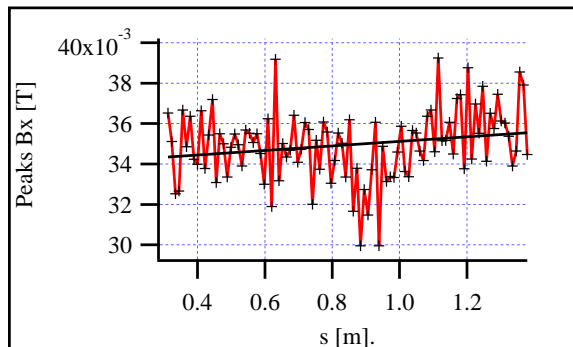
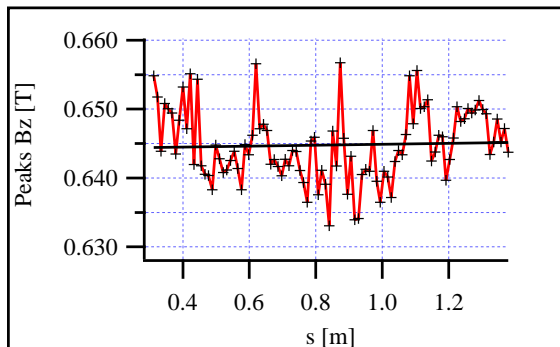
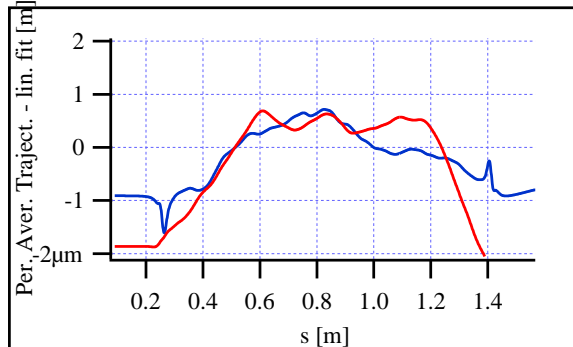
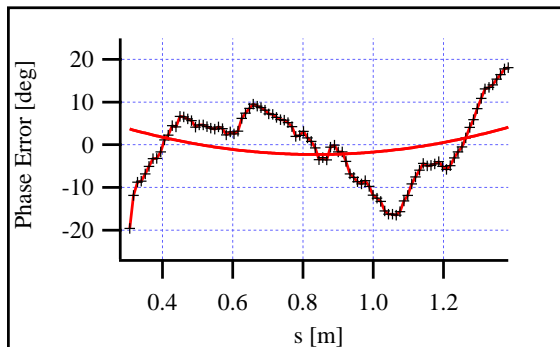
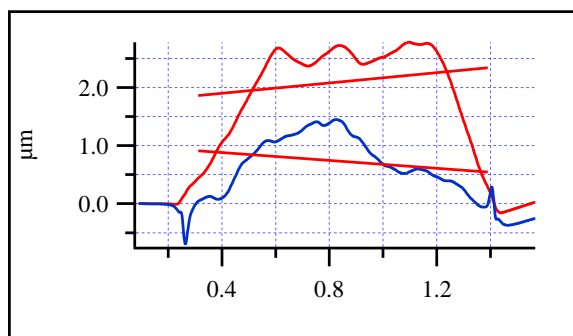
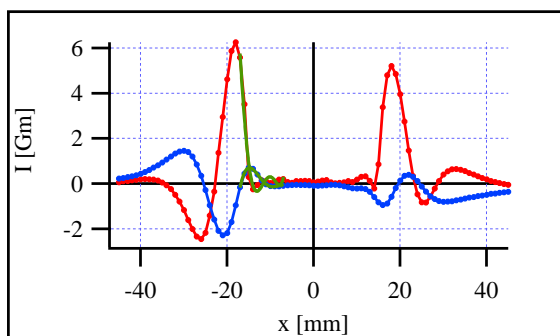
 $\Pi_z(\text{sBz}): -0.1265 \text{ G m}^2$ 

I4 : 0.3104 A

H Sextupole : 413.1 G/cm

BzTrj RMS dev. : 0.4 um

BxTrj RMS dev. : 0.7 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](mailto:info@kvma-undulators.eu) – web: [www.kvma-undulators.eu](http://www.kvma-undulators.eu)