

# Kyma Analysis Report

Name : 1991b

Date : 24. feb 2020

Temperature : 23.0

Filename : 1991b-TPF-UFCM 20200224

Waves analysed : Bz123,Bx123,Izmes6,Ixmes6

Gap [mm] : 200

Phase [mm] : 1    Hall Z [mm] : 0    Peak Field Bx: 0.00738 T

RMS Phase Error : 2.78 deg

Taper [mm] : 0    Hall X [mm]: 5    Delta Bx/Bx : 10.4 %

Fund. En. (B2E) : 1943.9 eV = 0.6 nm

Peak Field Bz: 0.68374 T

Radiation wavelength (lin. fit): 0.6 nm

Undulator Period : 22.00+-0.02 mm Delta Bz/Bz : 1.3 %

Peaks used : 103

e-beam energy : 3 GeV

Bx Taper : 1.513 G/m

Bz Taper : -9.628 G/m

Krms : 0.993

V Dipole : -3.2 G cm

Iz(coil) : -3.1 G cm

Pred. C.C. currents

V Quadrupole : 2.1 G

$$I_z(\text{BzC}): -3.0 \text{ Gcm} \quad I_z(\text{Bz}) : 25.0 \text{ G cm}$$

I1 : 0.1835 A

V Sextupole : -89.2 G/cm

Ix(coil) : 3.1 G cm

I2 : -0.8938 A

$$I_x(B_xC) : 3.1 \text{ Gcm} \quad I_x(B_x) : 268.6 \text{ G cm}$$

H Dipole : 4.7 G cm

$$\Pi_X(sB_X) : 0.0910 \text{ G m}^2$$

I3 : -0.1201 A

H Quadrupole : 25.7 G

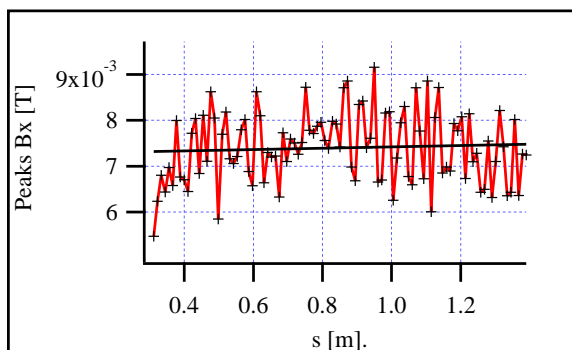
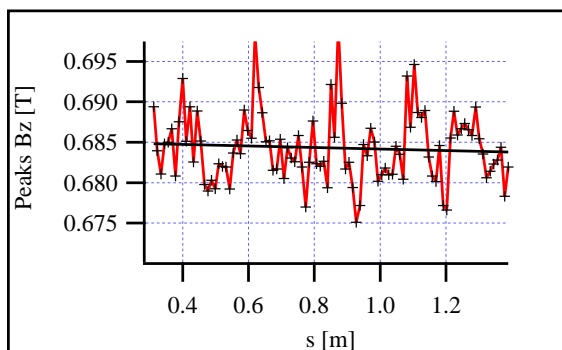
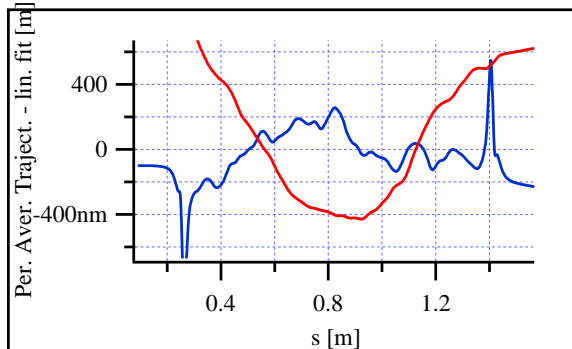
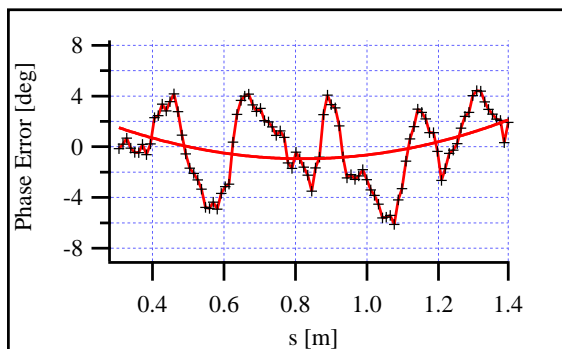
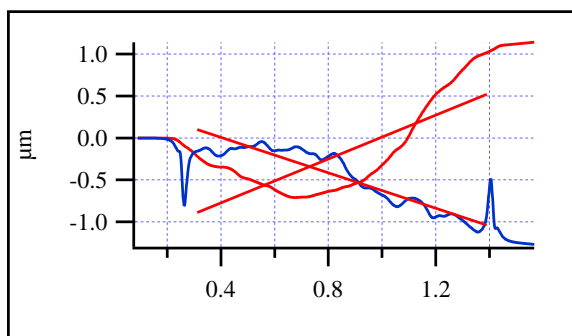
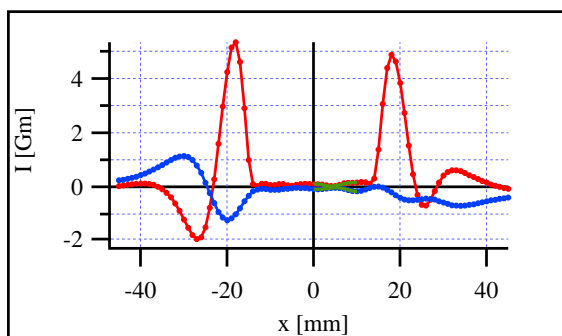
 $\mu_z(sBz): -0.1044 \text{ G m}^2$ 

I4 : 0.4605 A

H Sextupole : 97.4 G/cm

BzTrj RMS dev. : 0.1 um

BxTrj RMS dev. : 0.3 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)