

Kyma Analysis Report

Name : 1991b

Date : 24. feb 2020

Temperature : 23.0

Filename : 1991b-TPF-UFCM 20200224

Waves analysed : Bz357,Bx357,Izmes41,Ixmes41

Gap [mm] : 200

Phase [mm] : 10 Hall Z [mm] : -1 Peak Field Bx: 0.10910 T

RMS Phase Error : 6.96 deg

Taper [mm] : 0 Hall X [mm]: -12 Delta Bx/Bx : 3.6 %

Fund. En. (B2E) : 3453.4 eV = 0.4 nm

Peak Field Bz: 0.20906 T

Radiation wavelength (lin. fit): 0.4 nm

Undulator Period : 22.01+-0.09 mm Delta Bz/Bz : 10.3 %

Peaks used : 104

e-beam energy : 3 GeV

Bx Taper : -24.026 G/m

Bz Taper : 3.114 G/m

Krms : 0.343

V Dipole : -26.8 G cm

Iz(coil) : -23.7 G cm

Pred. C.C. currents

V Quadrupole : 208.1 G

$$I_z(\text{BzC}): -23.7 \text{ Gcm} \quad I_z(\text{Bz}): -10.3 \text{ G cm}$$

I1 : -0.5684 A

V Sextupole : -608.1 G/cm

$I_x(\text{coil}) : 33.2 \text{ G cm}$

I2 : -0.6008 A

$$I_x(B_xC) : 33.2 \text{ Gcm} \quad I_x(B_x) : 151.2 \text{ G cm}$$

H Dipole : 8.9 G cm

$$\Pi_X(sB_X) : -0.1362 \text{ G m}^2$$

I3 : 0.5361 A

H Quadrupole : 268.8 G

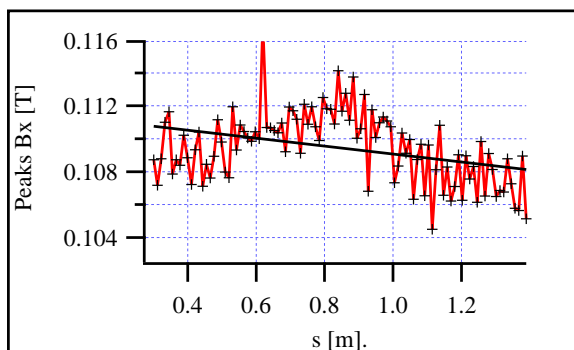
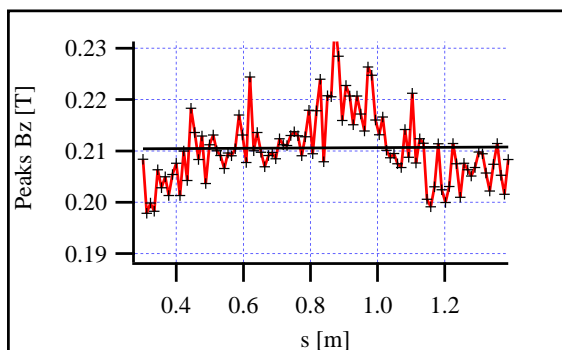
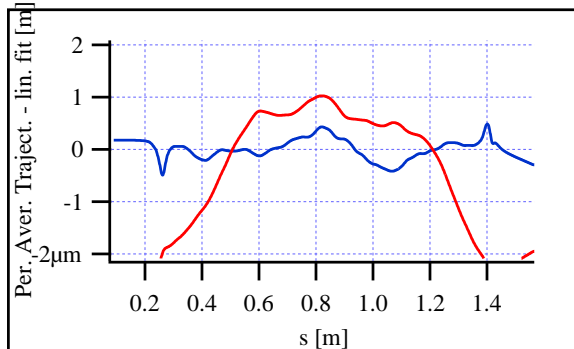
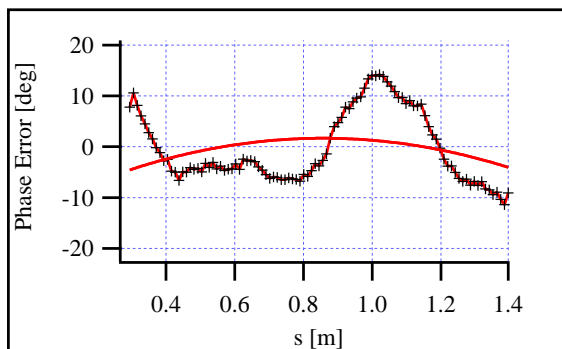
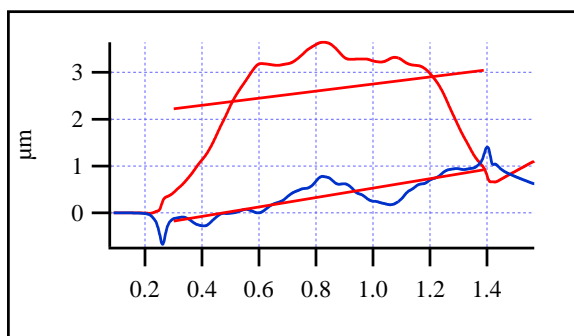
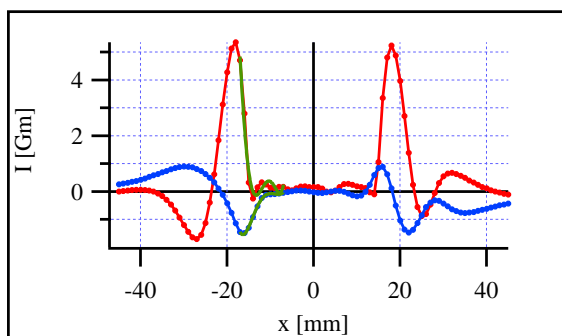
 $\mu_z(sBz): 0.2380 \text{ G m}^2$

I4 : -3.2775 A

H Sextupole : 70.8 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