

Kyma Analysis Report

Name : 1991b

Date : 24. feb 2020

Temperature : 23.0

Filename : 1991b-TPF-UFCM 20200224

Waves analysed : Bz261,Bx261,Izmes43,Ixmes43

Gap [mm] : 200

Phase [mm] : 10 Hall Z [mm] : 1 Peak Field Bx: 0.01013 T

RMS Phase Error : 6.43 deg

Taper [mm] : 0 Hall X [mm]: 5 Delta Bx/Bx : 7.8 %

Peak Field Bz: 0.18757 T

Fund. En. (B2E) : 3601.2 eV = 0.3 nm

Delta Bz/Bz : 12.3 %

Peaks used : 104

Undulator Period : 22.00+-0.08 mm

e-beam energy : 3 GeV

Bx Taper : -1.256 G/m

Bz Taper : -5.199 G/m

Krms : 0.273

V Dipole : 0.4 G cm

Iz(coil) : 0.7 G cm

Pred. C.C. currents

V Quadrupole : -12.7 G

$$I_z(\text{BzC}): 0.7 \text{ G cm} \quad I_z(\text{Bz}): -4.2 \text{ G cm}$$

I1 : 1.2805 A

V Sextupole : -82.3 G/cm

$I_x(\text{coil}) : 0.7 \text{ G cm}$

I2 : -1.5945 A

$$I_x(B_xC) : 0.7 \text{ Gcm} \quad I_x(B_x) : 173.0 \text{ G cm}$$

H Dipole : 4.4 G cm

$$\Pi_X(sB_X) : 0.0475 \text{ G m}^2$$

I3 : -1.3744 A

H Quadrupole : -15.7 G

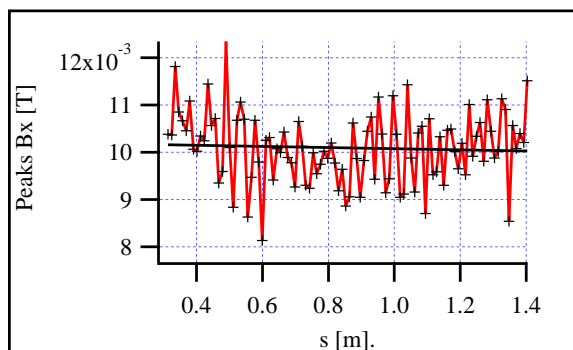
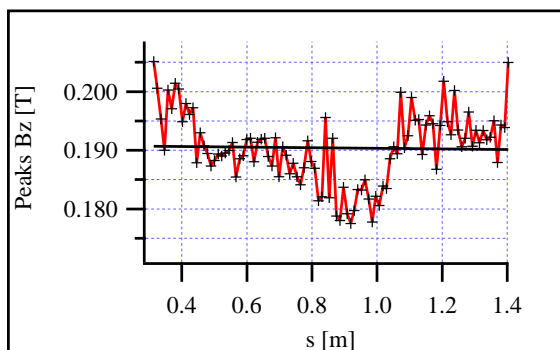
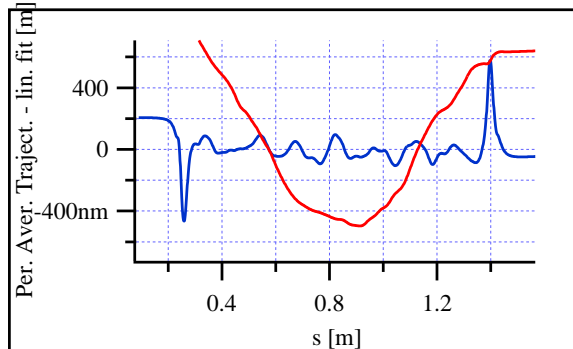
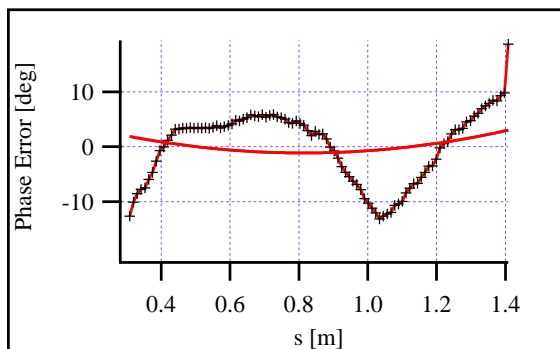
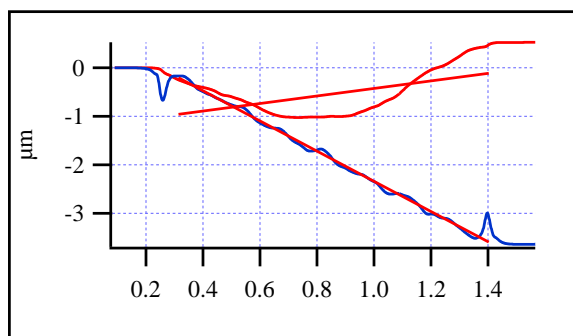
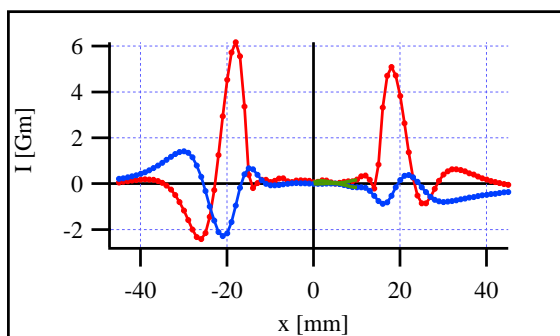
$\Pi_z(sBz)$: -0.3688 G m²

I4 : 1.6091 A

H Sextupole : 100.1 G/cm

BzTrj RMS dev. : 0.1 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@kyma-undulators.eu – web: www.kyma-undulators.eu