

Kyma Analysis Report

Name : 1991d

Date : 8. maj 2020

Temperature : 23.0

Filename : 1991d-TPF-UFCM_20200508

Waves analysed : Bz387,Bx387,Izmes27,Ixmes27

Gap [mm] : 200

Phase [mm] : 1 Hall Z [mm] : 0 Peak Field Bx: 0.02322 T

RMS Phase Error : 3.80 deg

Taper [mm] : 0 Hall X [mm]: -12 Delta Bx/Bx : 9.8 %

Fund. En. (B2E) : 2131.2 eV = 0.6 nm

Peak Field Bz: 0.61821 T

Radiation wavelength (lin. fit): 0.6 nm

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

Peaks used : 102

e-beam energy : 3 GeV

Bx Taper : -16.856 G/m

Bz Taper : -1.457 G/m

Krms : 0.899

V Dipole : -17.9 G cm

Iz(coil) : -17.5 G cm

Pred. C.C. currents

V Quadrupole : -47.5 G

$$I_z(\text{BzC}): -17.5 \text{ Gcm} \quad I_z(\text{Bz}): 36.5 \text{ G cm}$$

I1 : 1.2285 A

V Sextupole : 38.9 G/cm

$I_x(\text{coil}) : -3.6 \text{ G cm}$

I2 : -2.6537 A

$$I_x(B_xC) : -3.6 \text{ Gcm} \quad I_x(B_x) : 153.8 \text{ G cm}$$

H Dipole : 0.5 G cm

$$\Pi_X(sB_X) : 0.2838 \text{ G m}^2$$

I3 : 0.4003 A

H Quadrupole : -87.6 G

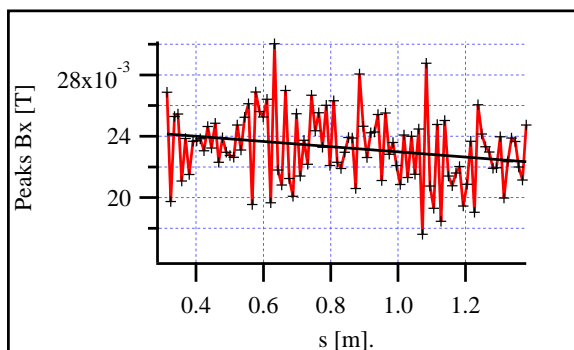
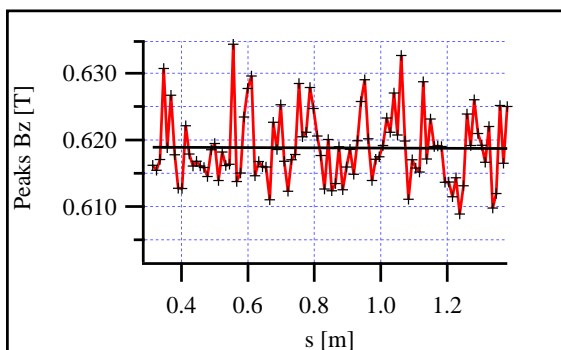
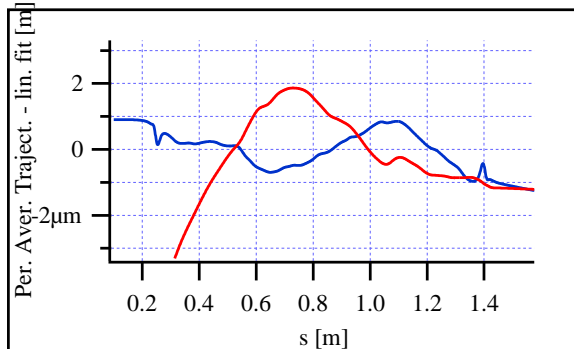
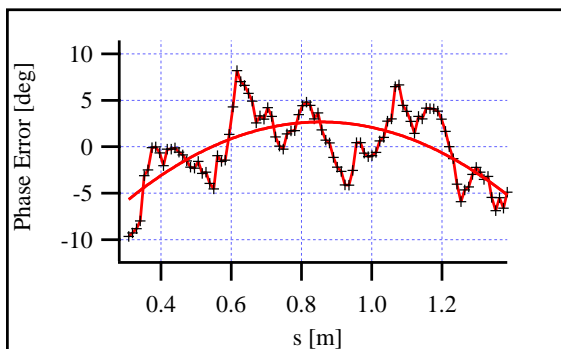
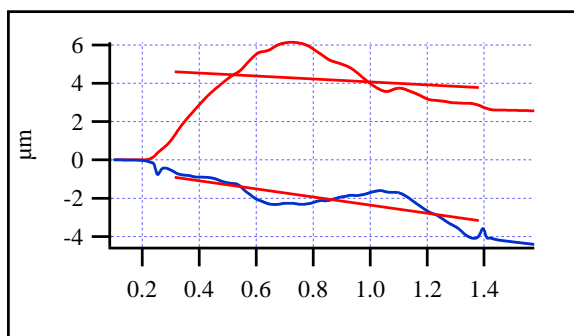
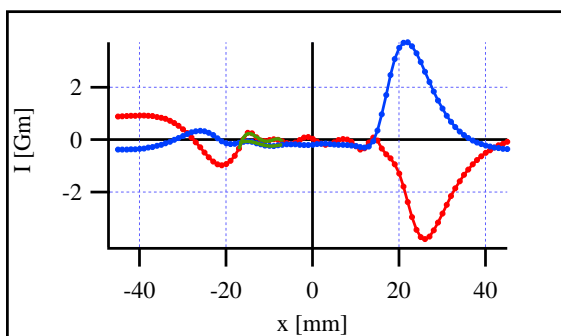
$\mu_z(\text{sBz}): -0.3105 \text{ G m}^2$

I4 : 1.4510 A

H Sextupole : 236.0 G/cm

BzTrj RMS dev. : 0.5 um

BxTrj RMS dev. : 1.2 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