

Kyma Analysis Report

Name : 1991d

Date : 8. maj 2020

Temperature : 23.0

Filename : 1991d-TPF-UFCM 20200508

Waves analysed : Bz313,Bx313,Izmes25,Ixmes25

Gap [mm] : 200

Phase [mm] : 0 Hall Z [mm] : 0 Peak Field Bx: 0.01076 T

RMS Phase Error : 11.49 deg

Taper [mm] : 0 Hall X [mm]: 12 Delta Bx/Bx : 25.7 %

Fund. En. (B2E) : 2077.9 eV = 0.6 nm

Peak Field Bz: 0.63334 T

Radiation wavelength (lin. fit): 0.6 nm

Undulator Period : 22.00+-0.02 mm Delta Bz/Bz : 1.0 %

Peaks used : 101

e-beam energy : 3 GeV

Bx Taper : 3.489 G/m

Bz Taper : 4.664 G/m

Krms : 0.920

V Dipole : -31.8 G cm

Iz(coil) : -30.8 G cm

Pred. C.C. currents

V Quadrupole : 5.7 G

$$I_z(\text{BzC}): -30.8 \text{ Gcm} \quad I_z(\text{Bz}): 39.4 \text{ G cm}$$

I1 : -0.4913 A

V Sextupole : 434.2 G/cm

$I_x(\text{coil}) : -35.0 \text{ G cm}$

I2 : -4.1834 A

$$I_x(B_xC) : -35.0 \text{ Gcm} \quad I_x(B_x) : -111.0 \text{ G cm}$$

H Dipole : -27.7 G cm

$$\Pi_X(sB_X) : 1.1673 \text{ G m}^2$$

I3 : 5.0478 A

H Quadrupole : 150.7 G

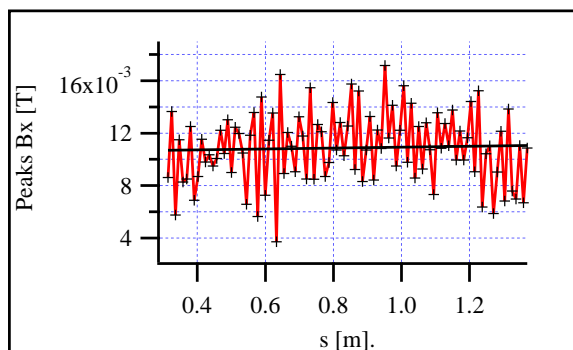
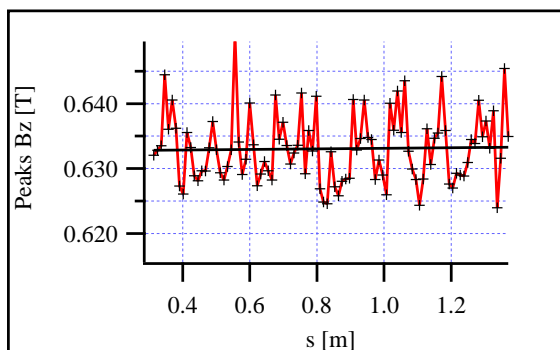
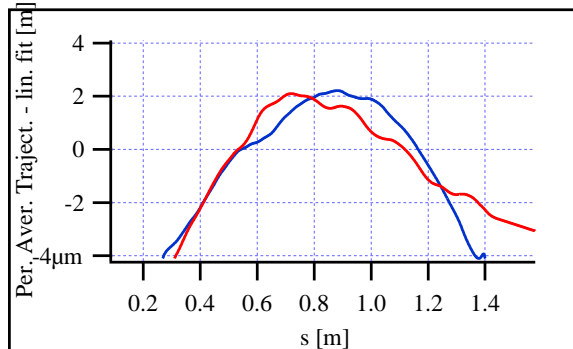
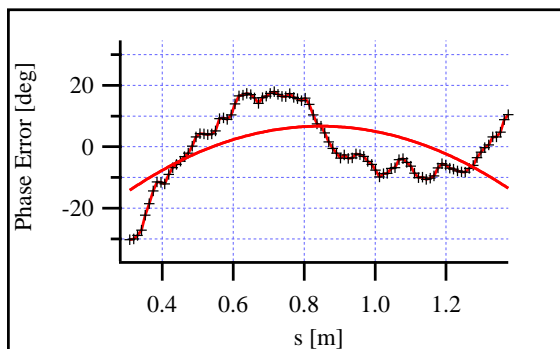
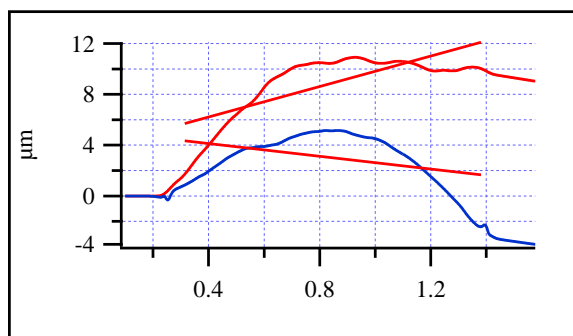
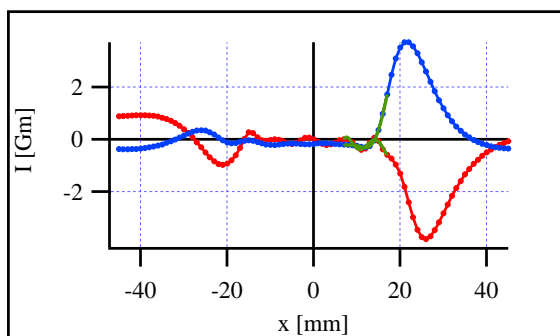
 $\mu_z(\text{sBz}): -0.1508 \text{ G m}^2$

I4 : 3.7514 A

H Sextupole : 276.6 G/cm

BzTrj RMS dev. : 1.8 um

BxTrj RMS dev. : 1.6 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