

# Kyma Analysis Report

Name : 1991d

Date : 8. maj 2020

Temperature : 23.0

Filename : 1991d-TPF-UFCM 20200508

Waves analysed : Bz289,Bx289,Izmes49,Ixmes49

Gap [mm] : 200

Phase [mm] : 0    Hall Z [mm] : 1    Peak Field Bx: 0.01372 T

RMS Phase Error : 12.49 deg

Taper [mm] : 0    Hall X [mm]: 12    Delta Bx/Bx : 19.6 %

Fund. En. (B2E) : 2087.2 eV = 0.6 nm

Peak Field Bz: 0.63121 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 : -3.689 G/m

Bz Taper : 18.690 G/m

Krms : 0.917

V Dipole : -36.5 G cm

Iz(coil) : -35.8 G cm

Pred. C.C. currents

V Quadrupole : -52.5 G

$$I_z(\text{BzC}): -35.9 \text{ Gcm} \quad I_z(\text{Bz}): 36.6 \text{ G cm}$$

I1 : 0.3690 A

V Sextupole : 517.5 G/cm

$I_x(\text{coil}) : -58.2 \text{ G cm}$

I2 : -3.6941 A

$$I_x(B_xC) : -58.2 \text{ Gcm} \quad I_x(B_x) : -115.5 \text{ G cm}$$

H Dipole : -46.9 G cm

$$\Pi_X(sB_X) : 1.1701 \text{ G m}^2$$

I3 : 5.9664 A

H Quadrupole : 243.3 G

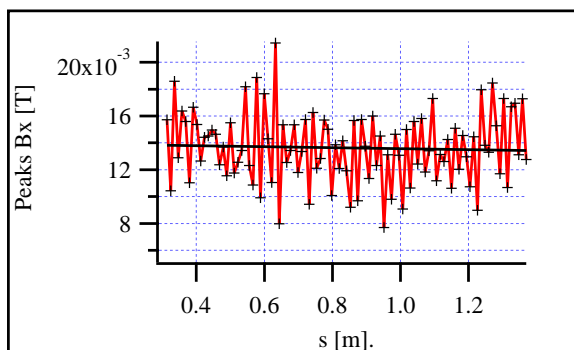
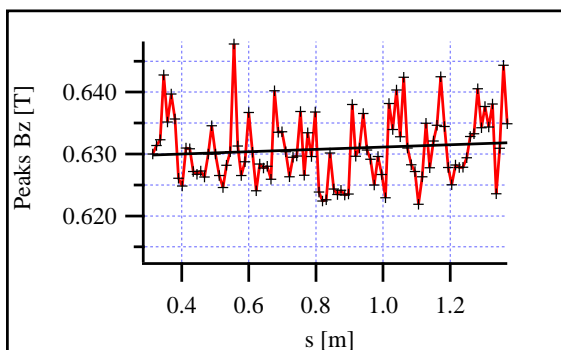
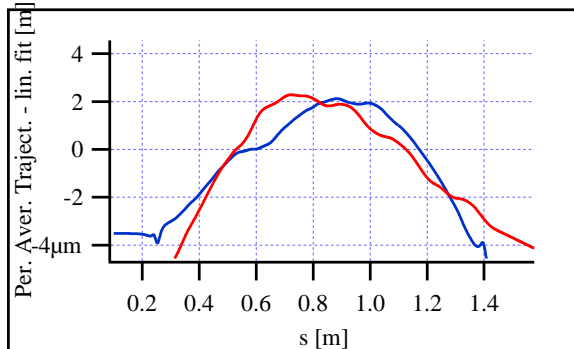
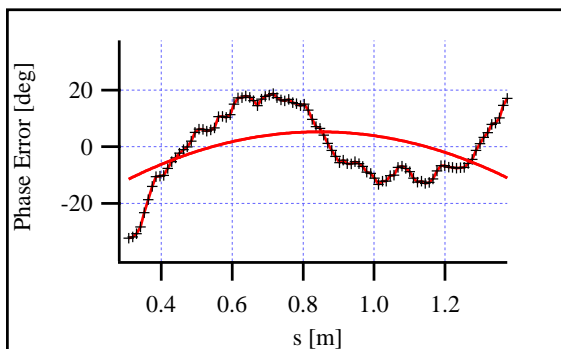
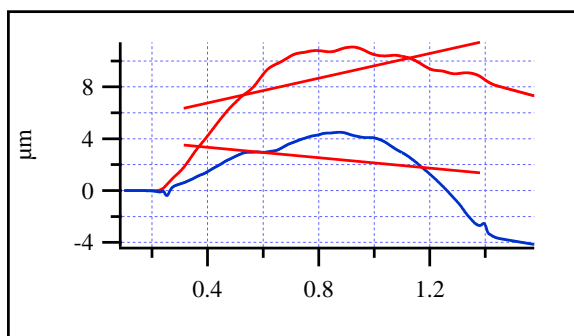
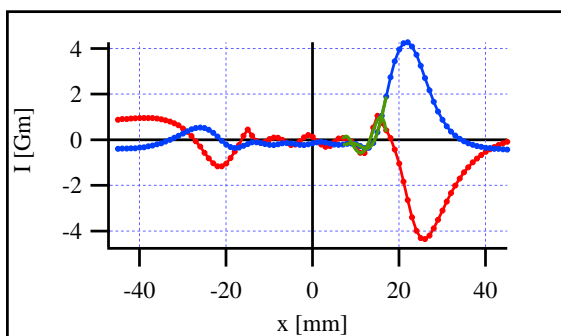
$\Pi_z(sB_z)$ : -0.1455 G m<sup>2</sup>

I4 : 4.2156 A

H Sextupole : 1309.2 G/cm

BzTrj RMS dev. : 1.7 um

BxTrj RMS dev. : 1.8 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)