

# Kyma Analysis Report

Name : 1991d

Date : 8. maj 2020

Temperature : 23.0

Filename : 1991d-TPF-UFCM 20200508

Waves analysed : Bz87,Bx87,Izmes15,Ixmes15

Gap [mm] : 200

Phase [mm] : 7 Hall Z [mm] : -1 Peak Field Bx: 0.00335 T

RMS Phase Error : 6.11 deg

Taper [mm] : 0    Hall X [mm]: -5    Delta Bx/Bx : 32.0 %

Fund. En. (B2E) :  $2367.2 \text{ eV} = 0.5 \text{ nm}$ 

Peak Field Bz: 0.55110 T

Radiation wavelength (lin. fit): 0.5 nm

Undulator Period : 22.00+-0.04 mm Delta Bz/Bz : 1.1 %

Peaks used : 102

e-beam energy : 3 GeV

Bx Taper : -0.545 G/m

Bz Taper : -11.071 G/m

Krms : 0.801

V Dipole : -8.5 G cm

Iz(coil) : -8.7 G cm

Pred. C.C. currents

V Quadrupole : 17.9 G

$$I_z(\text{BzC}): -8.7 \text{ Gcm} \quad I_z(\text{Bz}): 65.9 \text{ G cm}$$

I1 : 1.6139 A

V Sextupole : -63.4 G/cm

$I_x(\text{coil}) : -23.8 \text{ G cm}$

I2 : 0.0638 A

$$I_x(B_xC) : -23.8 \text{ Gcm} \quad I_x(B_x) : 794.7 \text{ G cm}$$

H Dipole : -18.4 G cm

$$\Pi_X(sB_X) : -0.0476 \text{ G m}^2$$

I3 : 0.4963 A

H Quadrupole : 49.8 G

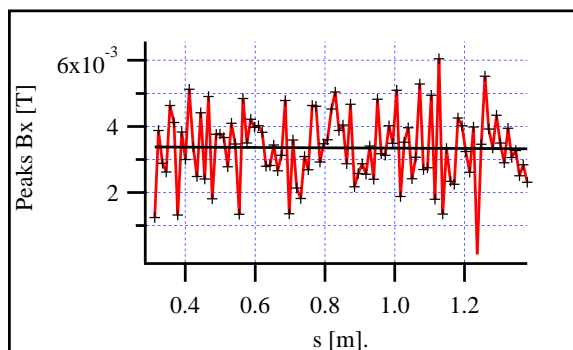
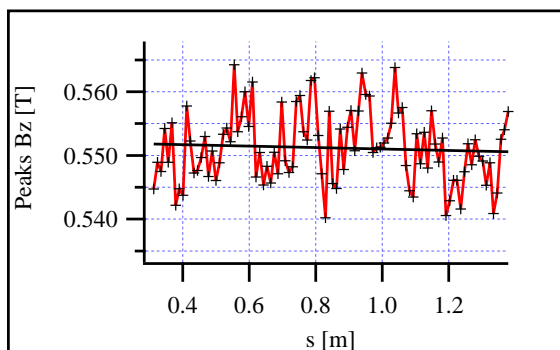
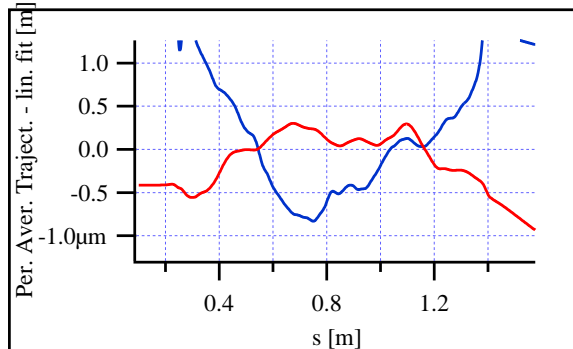
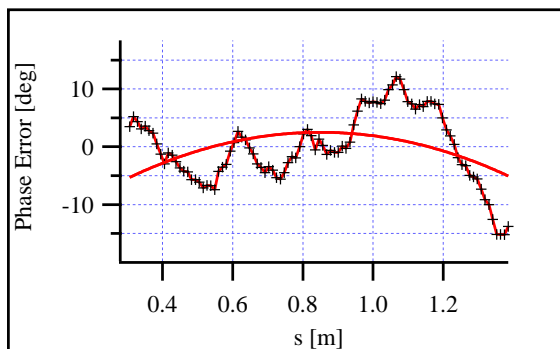
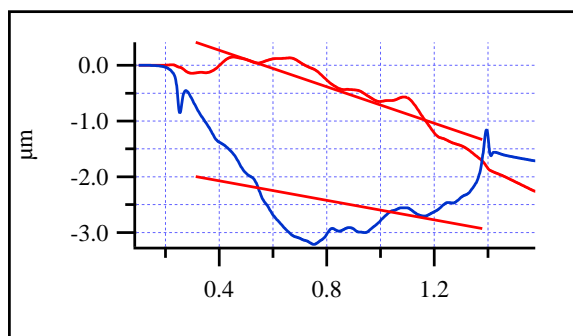
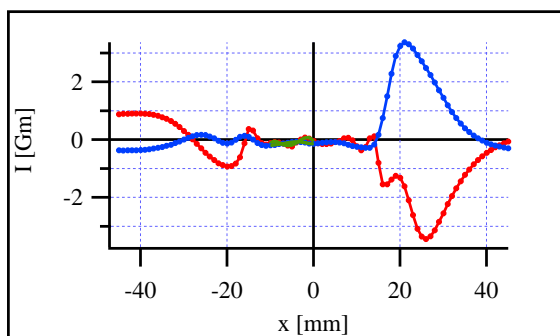
$$\text{IIz(sBz): } -0.1061 \text{ G m}^2$$

I4 : 0.6316 A

H Sextupole : 260.0 G/cm

BzTrj RMS dev. : 0.5 um

BxTrj RMS dev. : 0.2 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@kvma-undulators.eu](mailto:info@kvma-undulators.eu) – web: [www.kvma-undulators.eu](http://www.kvma-undulators.eu)