

# Kyma Analysis Report

Name : 1991d

Date : 8. maj 2020

Temperature : 23.0

Filename : 1991d-TPF-UFCM\_20200508

Waves analysed : Bz143,Bx143,Izmes23,Ixmes23

Gap [mm] : 200

Phase [mm] : 11 Hall Z [mm] : -1 Peak Field Bx: 0.01906 T

RMS Phase Error : 7.69 deg

Taper [mm] : 0    Hall X [mm]: 5    Delta Bx/Bx : 6.5 %

Fund. En. (B2E) : 2986.8 eV = 0.4 nm

Peak Field Bz: 0.36981 T

Radiation wavelength (lin. fit): 0.4 nm

Undulator Period : 22.00+-0.07 mm

Delta Bz/Bz : 2.3 %

Peaks used : 102

e-beam energy : 3 GeV

Bx Taper : -3.039 G/m

Bz Taper : -22.030 G/m

Krms : 0.538

V Dipole : -7.8 G cm

Iz(coil) : -7.8 G cm

Pred. C.C. currents

V Quadrupole : -10.0 G

$$I_z(\text{BzC}): -7.8 \text{ Gcm} \quad I_z(\text{Bz}) : 33.4 \text{ G cm}$$

I1 : -0.5366 A

V Sextupole : -76.8 G/cm

$I_x(\text{coil}) : -13.7 \text{ G cm}$

I2 : -0.7255 A

$$I_x(B \times C) : -13.7 \text{ Gcm} \quad I_x(B \times) : 20.4 \text{ G cm}$$

H Dipole : -13.7 G cm

$$\Pi_X(sB_X) : 0.3582 \text{ G m}^2$$

I3 : 1.9753 A

H Quadrupole : 45.9 G

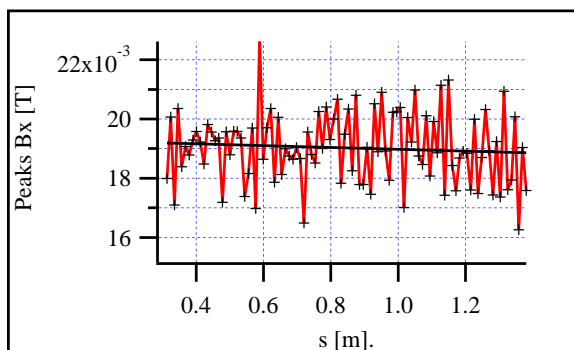
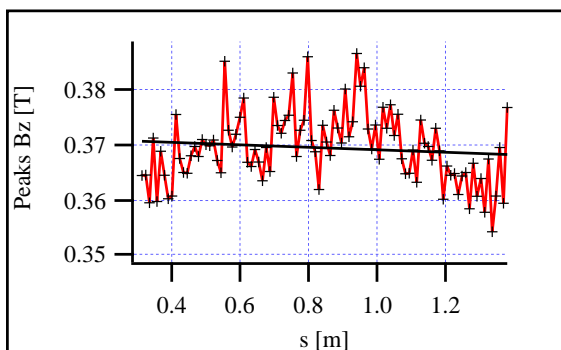
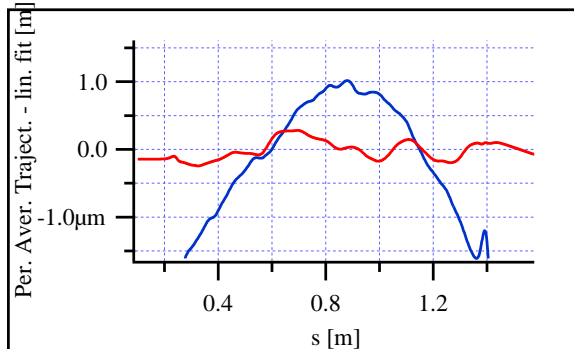
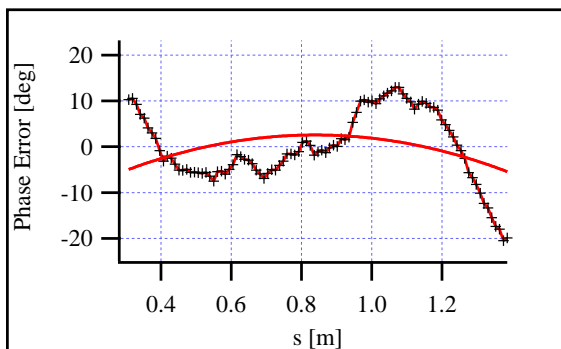
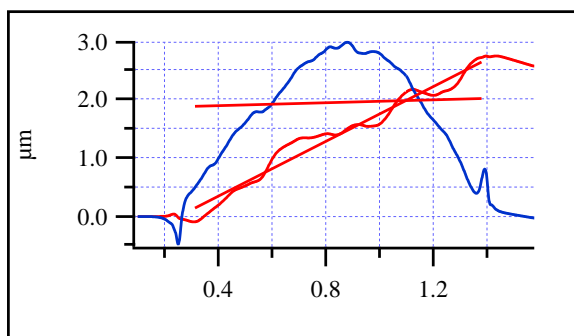
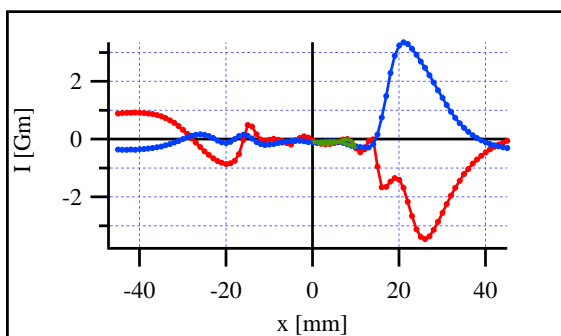
 $\Pi_z(\text{sBz}): 0.0560 \text{ G m}^2$ 

I4 : 0.8974 A

H Sextupole : 94.3 G/cm

BzTrj RMS dev. : 0.8 um

BxTrj RMS dev. : 0.1 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](mailto:info@kyma-undulators.eu) – web: [www.kyma-undulators.eu](http://www.kyma-undulators.eu)