

# Kyma Analysis Report

Name : 1991d

Date : 8. maj 2020

Temperature : 23.0

Filename : 1991d-TPF-UFCM 20200508

Waves analysed : Bz399,Bx399,Izmes39,Ixmes39

Gap [mm] : 200

Phase [mm] : 7    Hall Z [mm] : 0    Peak Field Bx: 0.03282 T

RMS Phase Error : 5.35 deg

Taper [mm] : 0    Hall X [mm]: -12 Delta Bx/Bx : 7.1 %

Fund. En. (B2E) : 3058.9 eV = 0.4 nm

Peak Field Bz: 0.34248 T

Radiation wavelength (lin. fit): 0.4 nm

Undulator Period : 22.00+-0.04 mm Delta Bz/Bz : 1.3 %

Peaks used : 101

e-beam energy : 3 GeV

Bx Taper : 0.103 G/m

Bz Taper : -9.888 G/m

Krms : 0.500

V Dipole : -11.7 G cm

Iz(coil) : -11.6 G cm

Pred. C.C. currents

V Quadrupole : -40.1 G

$$I_z(\text{BzC}): -11.6 \text{ Gcm} \quad I_z(\text{Bz}): 30.6 \text{ G cm}$$

I1 : 1.1951 A

V Sextupole : 38.7 G/cm

$I_x(\text{coil}) : -9.1 \text{ G cm}$

I2 : -2.4182 A

$$I_x(B \times C) : -9.1 \text{ Gcm} \quad I_x(B \times) : 591.5 \text{ G cm}$$

H Dipole : -5.4 G cm

$$\Pi_X(sB_X) : 0.3051 \text{ G m}^2$$

I3 : 0.2808 A

H Quadrupole : -76.3 G

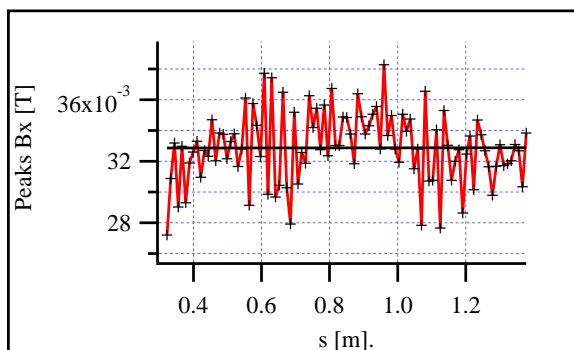
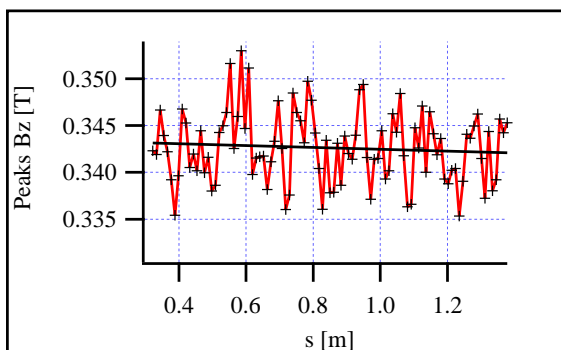
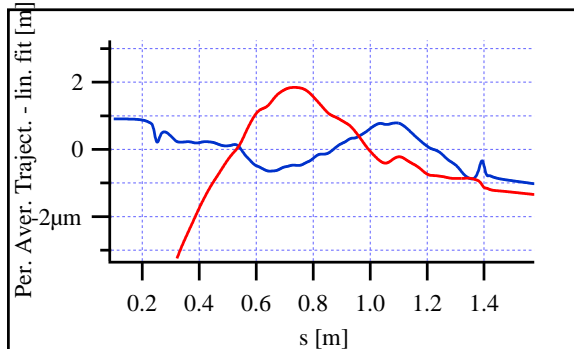
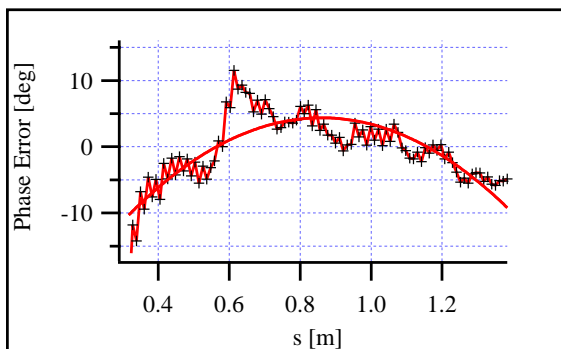
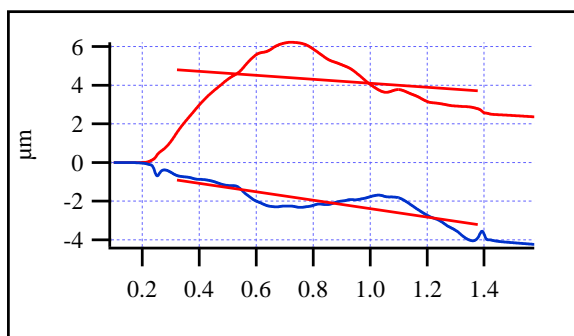
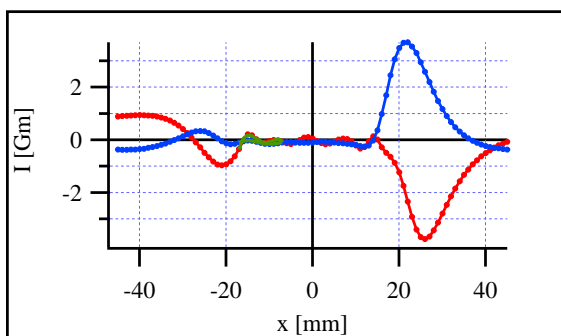
$$\mu_z(sBz): -0.3368 \text{ G m}^2$$

I4 : 2.0177 A

H Sextupole : 259.7 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@kvma-undulators.eu](mailto:info@kvma-undulators.eu) – web: [www.kvma-undulators.eu](http://www.kvma-undulators.eu)