

# Kyma Analysis Report

Name : 1991d

Date : 8. maj 2020

Temperature : 23.0

Filename : 1991d-TPF-UFCM 20200508

Waves analysed : Bz341,Bx341,Izmes5,Ixmes5

Gap [mm] : 200

Phase [mm] : 2    Hall Z [mm] : -1    Peak Field Bx: 0.04470 T

RMS Phase Error : 8.99 deg

Taper [mm] : 0    Hall X [mm]: 12    Delta Bx/Bx : 6.8 %

Fund. En. (B2E) :  $1914.4 \text{ eV} = 0.6 \text{ nm}$ 

Peak Field Bz: 0.68806 T

Radiation wavelength (lin. fit): 0.6 nm

Undulator Period : 22.00+-0.03 mm

Delta Bz/Bz : 1.4 %

Peaks used : 102

e-beam energy : 3 GeV

Bx Taper : 4.077 G/m

Bz Taper : 1.571 G/m

Krms : 1.002

V Dipole : -34.9 G cm

Iz(coil) : -32.5 G cm

Pred. C.C. currents

V Quadrupole : -15.1 G

$$I_z(\text{BzC}): -32.5 \text{ Gcm} \quad I_z(\text{Bz}) : 29.6 \text{ G cm}$$

I1 : -1.0404 A

V Sextupole : 286.2 G/cm

$I_x(\text{coil}) : -26.1 \text{ G cm}$

I2 : -4.2980 A

$$I_x(B_xC) : -26.1 \text{ Gcm} \quad I_x(B_x) : 268.6 \text{ G cm}$$

H Dipole : -8.6 G cm

$$\Pi_X(sB_X) : 1.1914 \text{ G m}^2$$

I3 : 5.2114 A

H Quadrupole : 232.3 G

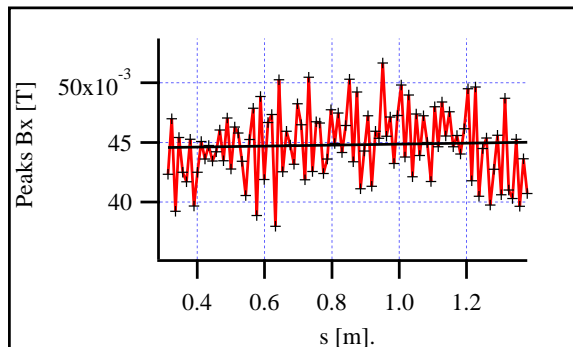
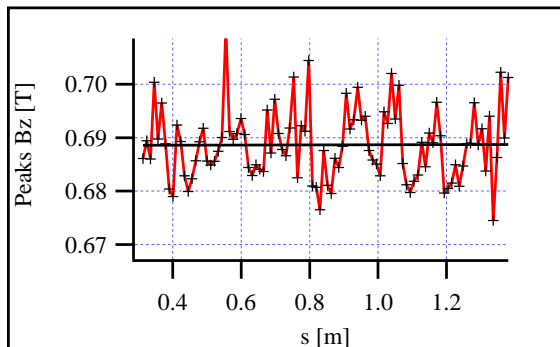
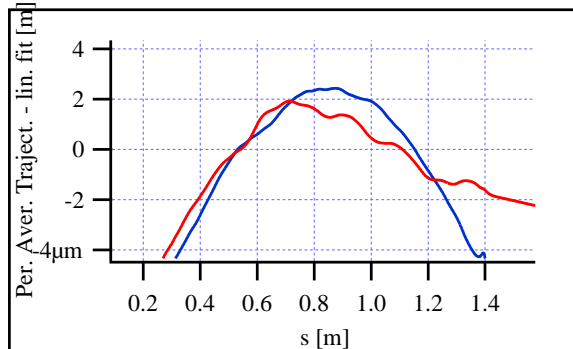
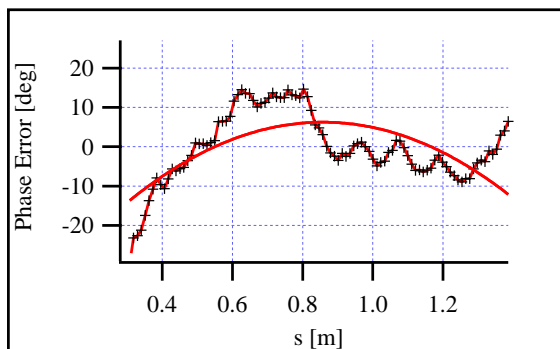
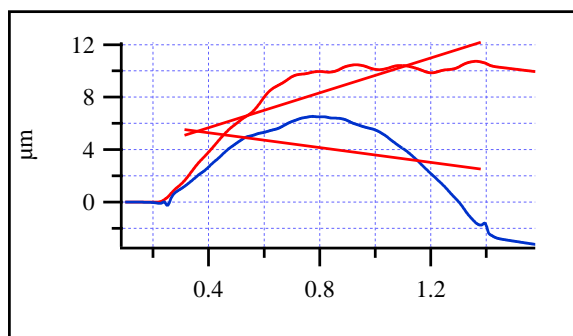
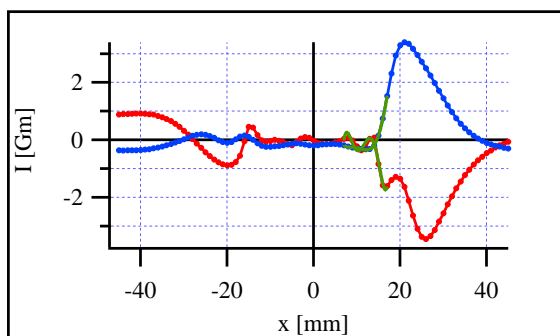
 $\Pi_z(\text{sBz}): -0.0786 \text{ G m}^2$ 

I4 : 3.2021 A

H Sextupole : -448.4 G/cm

BzTrj RMS dev. : 2.1 um

BxTrj RMS dev. : 1.4 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)