

# Kyma Analysis Report

Name : 1991d

Date : 8. maj 2020

Temperature : 23.0

Filename : 1991d-TPF-UFCM\_20200508

Waves analysed : Bz371,Bx371,Izmes11,Ixmes11

Gap [mm] : 200

Phase [mm] : 5 Hall Z [mm] : -1 Peak Field Bx: 0.06922 T

RMS Phase Error : 6.78 deg

Taper [mm] : 0    Hall X [mm]: -12 Delta Bx/Bx : 3.5 %

Fund. En. (B2E) : 2298.6 eV = 0.5 nm

Peak Field Bz: 0.56052 T

Radiation wavelength (lin. fit): 0.5 nm

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

Peaks used : 102

e-beam energy : 3 GeV

Bx Taper : -13.200 G/m

Bz Taper : -9.559 G/m

Krms : 0.821

V Dipole : -20.5 G cm

Iz(coil) : -21.3 G cm

Pred. C.C. currents

V Quadrupole : -57.3 G

$$I_z(\text{BzC}): -21.3 \text{ Gcm} \quad I_z(\text{Bz}) : 8.7 \text{ G cm}$$

I1 : 0.4221 A

V Sextupole : 196.7 G/cm

$I_x(\text{coil}) : -6.4 \text{ G cm}$

I2 : -2.2486 A

$$I_x(B_xC) : -6.4 \text{ Gcm} \quad I_x(B_x) : 651.0 \text{ G cm}$$

H Dipole : -0.2 G cm

$$\Pi_X(sB_X) : 0.3815 \text{ G m}^2$$

I3 : 1.6790 A

H Quadrupole : -154.6 G

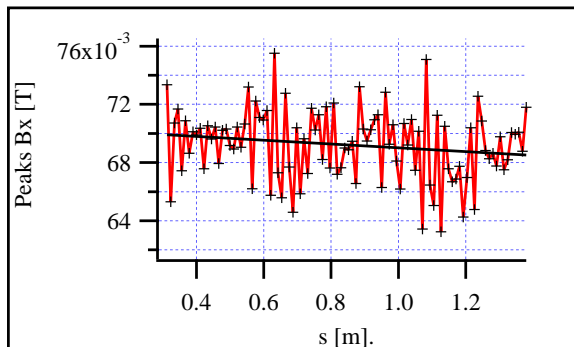
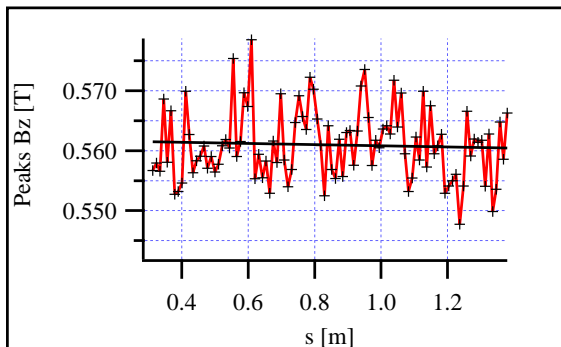
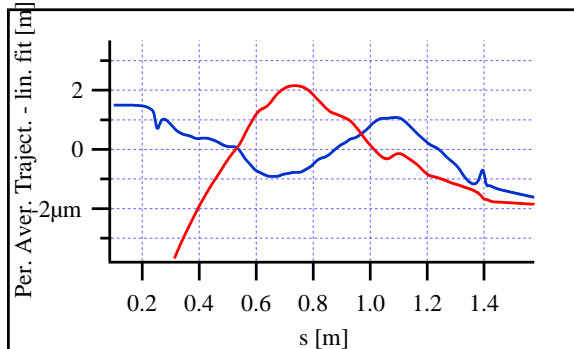
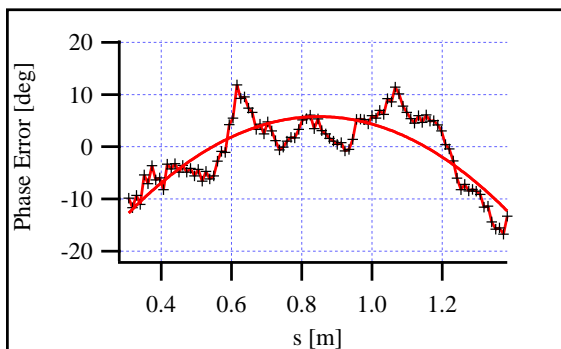
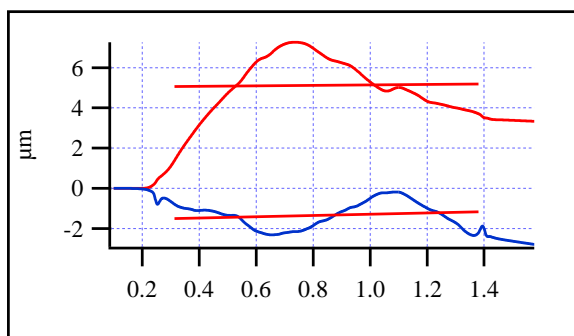
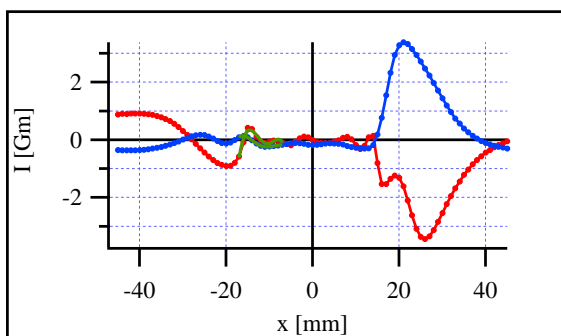
$$\Pi_z(sBz): -0.1189 \text{ G m}^2$$

I4 : 0.8976 A

H Sextupole : 309.3 G/cm

BzTrj RMS dev. : 0.6 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@kyma-undulators.eu](mailto:info@kyma-undulators.eu) – web: [www.kyma-undulators.eu](http://www.kyma-undulators.eu)