

# Kyma Analysis Report

Name : 1991d

Date : 8. maj 2020

Temperature : 23.0

Filename : 1991d-TPF-UFCM 20200508

Waves analysed : Bz75,Bx75,Izmes3,Ixmes3

Gap [mm] : 200

Phase [mm] : 1 Hall Z [mm] : -1 Peak Field Bx: 0.00435 T

RMS Phase Error : 5.14 deg

Taper [mm] : 0    Hall X [mm]: -5    Delta Bx/Bx : 24.8 %

Peak Field Bz: 0.78015 T

Fund. En. (B2E) : 1679.6 eV = 0.7 nm

Undulator Period : 22.00+-0.03 mm Delta Bz/Bz : 1.3 %

Peaks used : 102

e-beam energy : 3 GeV

Bx Taper : 1.964 G/m

Bz Taper : -11.486 G/m

V Dipole : -12.4 G cm

Iz(coil) : -12.7 G cm

Pred. C.C. currents

V Quadrupole : 19.1 G

$$I_z(\text{BzC}): -12.7 \text{ Gcm} \quad I_z(\text{Bz}): 58.1 \text{ G cm}$$

I1 : 1.7879 A

V Sextupole : -61.5 G/cm

$I_x(\text{coil}) : -18.6 \text{ G cm}$

I2 : -0.2568 A

$$I_x(B_xC) : -18.7 \text{ Gcm} \quad I_x(B_x) : 92.5 \text{ G cm}$$

H Dipole : -13.1 G cm

$$\Pi_X(sB_X) : -0.0750 \text{ G m}^2$$

I3 : 0.3381 A

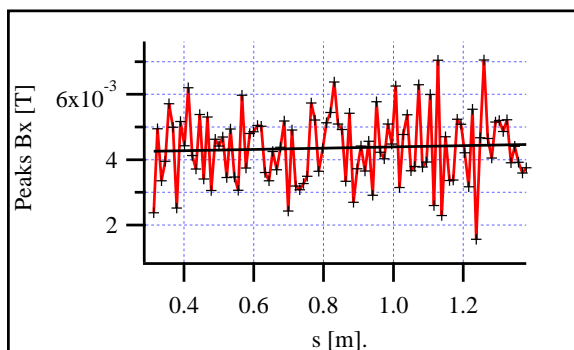
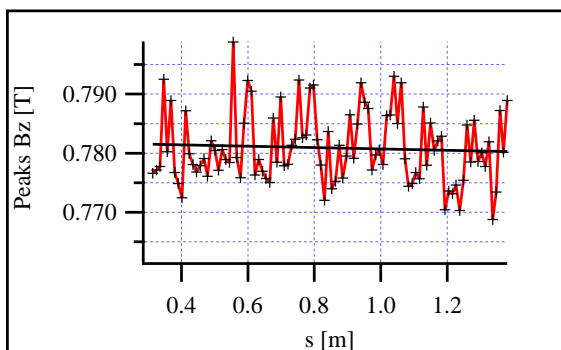
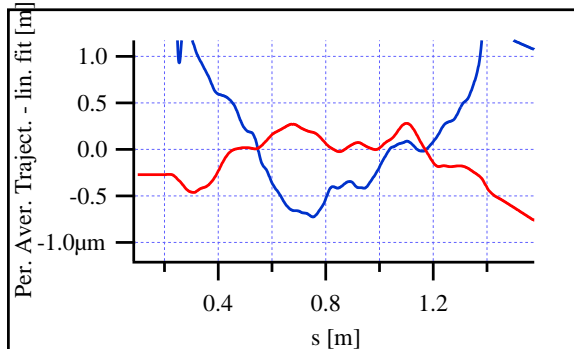
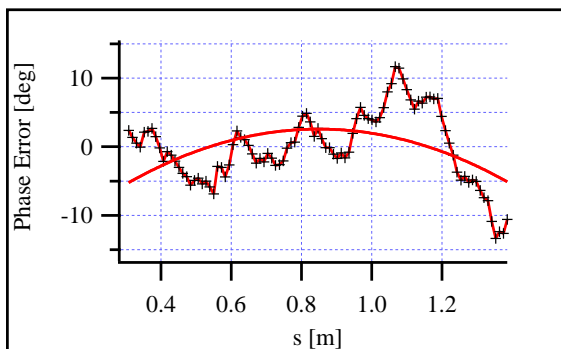
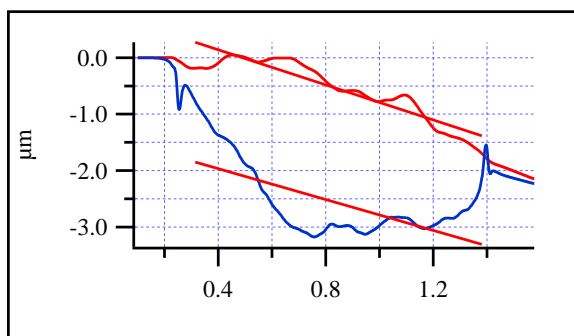
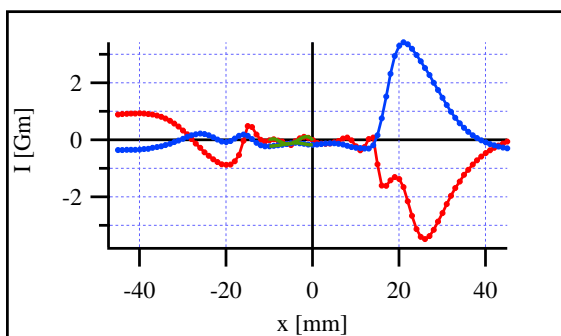
H Quadrupole : 41.6 G

$$\Pi_z(\text{sBz}): -0.1280 \text{ G m}^2$$
$$I_4 : 0.3275 \text{ A}$$

H Sextupole : 267.0 G/cm

BzTrj RMS dev. : 0.5 um

BxTrj RMS dev. : 0.2 um



Kyma Srl

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