

# Kyma Analysis Report

Name : 1991d

Date : 8. maj 2020

Temperature : 23.0

Filename : 1991d-TPF-UFCM\_20200508

Waves analysed : Bz107,Bx107,Izmes11,Ixmes11

Gap [mm] : 200

Phase [mm] : 5 Hall Z [mm] : -1 Peak Field Bx: 0.01224 T

RMS Phase Error : 5.12 deg

Taper [mm] : 0    Hall X [mm]: 0    Delta Bx/Bx : 7.8 %

Fund. En. (B2E) :  $2001.7 \text{ eV} = 0.6 \text{ nm}$ 

Peak Field Bz: 0.66600 T

Radiation wavelength (lin. fit): 0.6 nm

Undulator Period : 22.00+-0.03 mm

Delta Bz/Bz : 1.1 %

Peaks used : 102

e-beam energy : 3 GeV

Bx Taper : -4.400 G/m

Bz Taper : -12.817 G/m

Krms : 0.968

V Dipole : -18.0 G cm

Iz(coil) : -18.2 G cm

Pred. C.C. currents

V Quadrupole : -1.6 G

$$I_z(\text{BzC}): -18.2 \text{ Gcm} \quad I_z(\text{Bz}): 68.0 \text{ G cm}$$

I1 : 0.2204 A

V Sextupole : 75.6 G/cm

$I_x(\text{coil}) : -0.9 \text{ G cm}$

I2 : -0.6015 A

$$I_x(BxC) : -0.9 \text{ Gcm} \quad I_x(Bx) : 847.3 \text{ G cm}$$

H Dipole : 0.3 G cm

$$\Pi_X(sB_X) : 0.0752 \text{ G m}^2$$

I3 : 1.3089 A

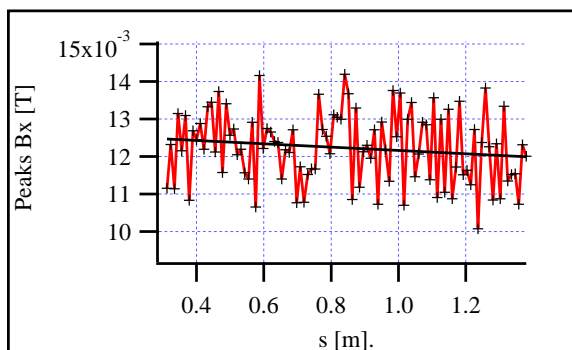
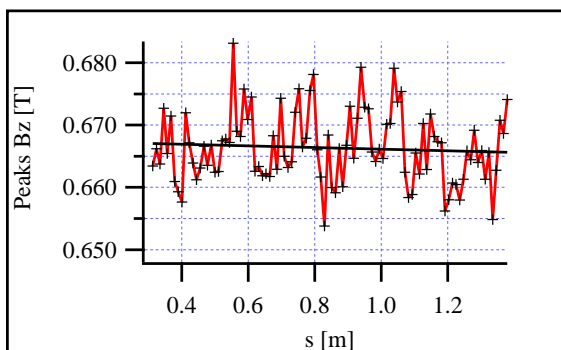
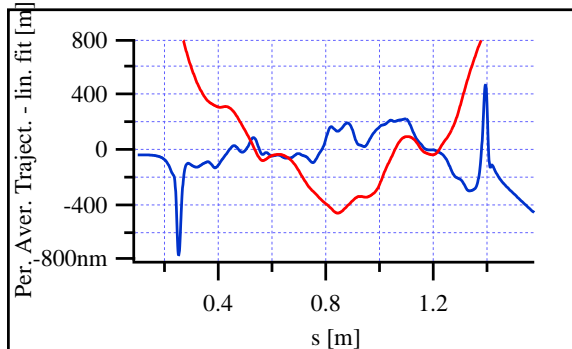
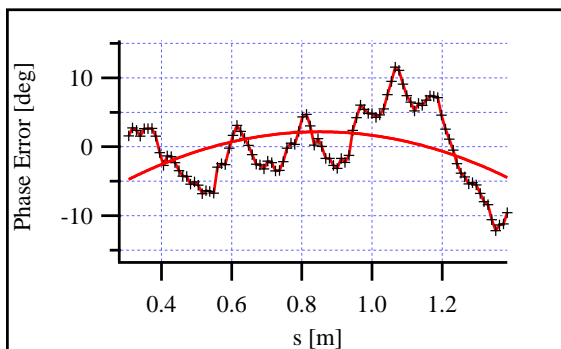
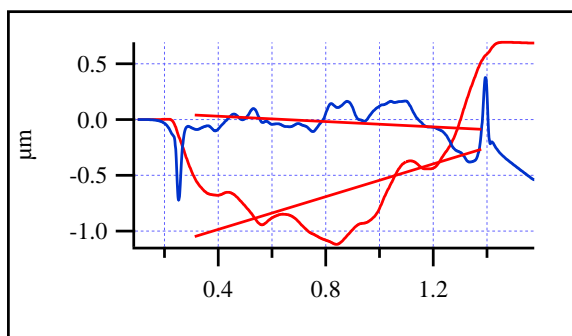
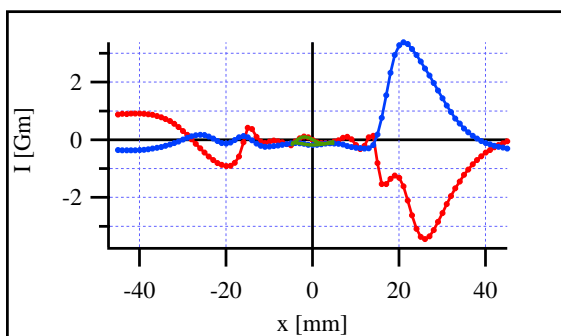
H Quadrupole : -82.2 G

 $\mu_z(\text{sBz}): 0.0824 \text{ G m}^2$ 
$$I_4 : -0.8222 \text{ A}$$

H Sextupole : -41.0 G/cm

BzTrj RMS dev. : 0.1 um

BxTrj RMS dev. : 0.3 um



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