

# Kyma Analysis Report

Name : 1991b

Date : 24. feb 2020

Temperature : 23.0

Filename : 1991b-TPF-UFCM 20200224

Waves analysed : Bz65,Bx65,Izmes33,Ixmes33

Gap [mm] : 200

Phase [mm] : 8 Hall Z [mm] : -1 Peak Field Bx: 0.00232 T

RMS Phase Error : 6.68 deg

Taper [mm] : 0    Hall X [mm]: -5    Delta Bx/Bx : 36.8 %

Fund. En. (B2E) :  $3133.7 \text{ eV} = 0.4 \text{ nm}$ 

Peak Field Bz: 0.33553 T

Radiation wavelength (lin. fit): 0.4 nm

Undulator Period : 22.02+-0.09 mm Delta Bz/Bz : 8.0 %

Peaks used : 104

e-beam energy : 3 GeV

Bx Taper : -4.038 G/m

Bz Taper : 15.926 G/m

Krms : 0.488

V Dipole : 2.5 G cm

Iz(coil) : 2.1 G cm

Pred. C.C. currents

V Quadrupole : 29.5 G

$$I_z(\text{BzC}): 2.2 \text{ Gcm} \quad I_z(\text{Bz}): 7.6 \text{ G cm}$$

I1 : 0.6265 A

V Sextupole : -42.0 G/cm

$I_x(\text{coil}) : 1.4 \text{ G cm}$

I2 : -1.3123 A

$$I_x(BxC) : 1.4 \text{ Gcm} \quad I_x(Bx) : 621.2 \text{ G cm}$$

H Dipole : 6.2 G cm

$$\Pi_X(sB_X) : 0.1047 \text{ G m}^2$$

I3 : -0.8816 A

H Quadrupole : 16.6 G

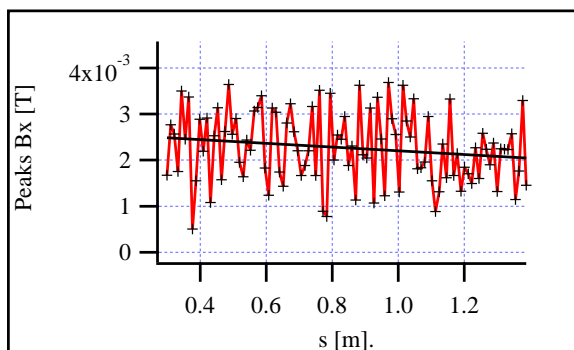
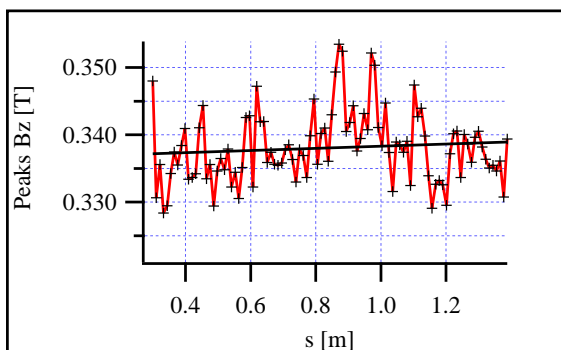
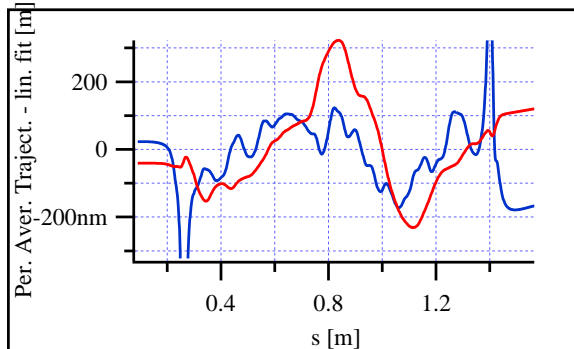
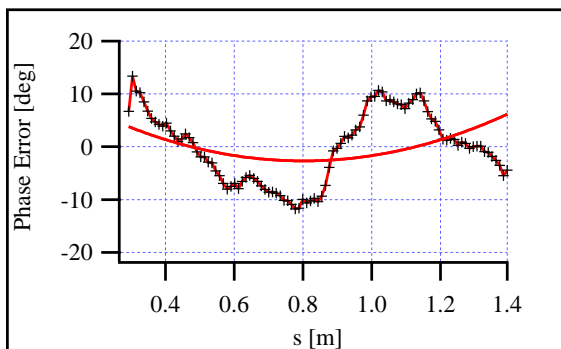
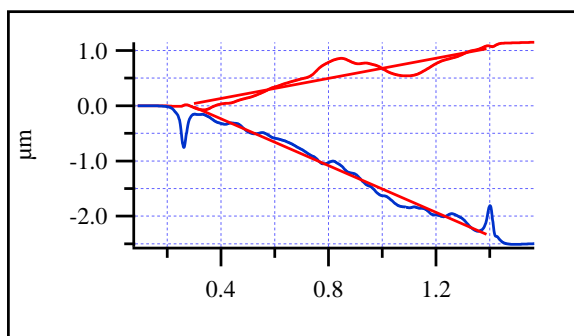
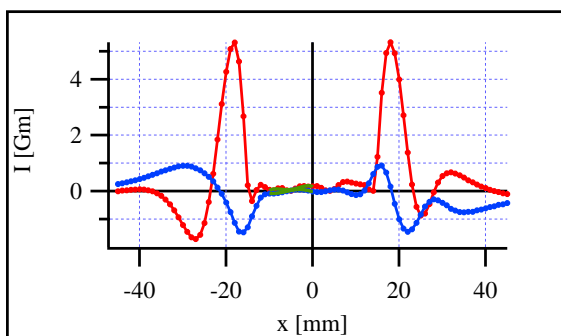
$$\Pi_z(\text{sBz}): -0.2659 \text{ G m}^2$$

I4 : 1.4039 A

H Sextupole : 107.0 G/cm

BzTrj RMS dev. : 0.1 um

BxTrj RMS dev. : 0.1 um



Kyma Srl

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