

# Kyma Analysis Report

Name : 1991b

Date : 24. feb 2020

Temperature : 23.0

Filename : 1991b-TPF-UFCM 20200224

Waves analysed : Bz379,Bx379,Izmes38,Ixmes38

Gap [mm] : 200

Phase [mm] : 9    Hall Z [mm] : 0    Peak Field Bx: 0.01306 T

RMS Phase Error : 2.30 deg

Taper [mm] : 0    Hall X [mm]: -12 Delta Bx/Bx : 38.7 %

Fund. En. (B2E) :  $3616.9 \text{ eV} = 0.3 \text{ nm}$ 

Peak Field Bz: 0.14906 T

Radiation wavelength (lin. fit): 0.3 nm

Undulator Period : 22.00+-0.10 mm Delta Bz/Bz : 3.4 %

Peaks used : 102

e-beam energy : 3 GeV

Bx Taper : 3.066 G/m

Bz Taper : 23.544 G/m

Krms : 0.217

V Dipole : -7.6 G cm

Iz(coil) : -7.5 G cm

Pred. C.C. currents

V Quadrupole : 13.0 G

$$I_z(\text{BzC}): -7.5 \text{ Gcm} \quad I_z(\text{Bz}): -2.8 \text{ G cm}$$

I1 : 0.4246 A

V Sextupole : -159.7 G/cm

$I_x(\text{coil}) : 13.6 \text{ G cm}$

I2 : -0.2181 A

$$I_x(B_xC) : 13.6 \text{ Gcm} \quad I_x(B_x) : 335.5 \text{ G cm}$$

H Dipole : -1.5 G cm

$$\Pi_X(sB_X) : -0.1749 \text{ G m}^2$$

I3 : -0.6207 A

H Quadrupole : 137.9 G

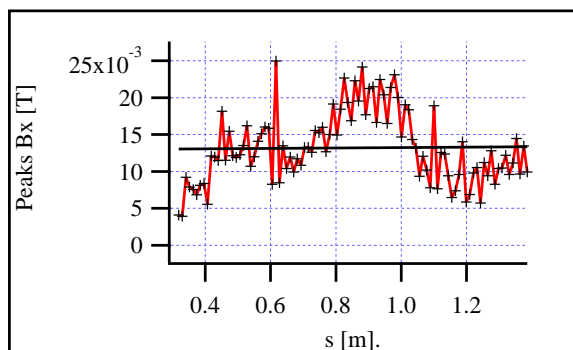
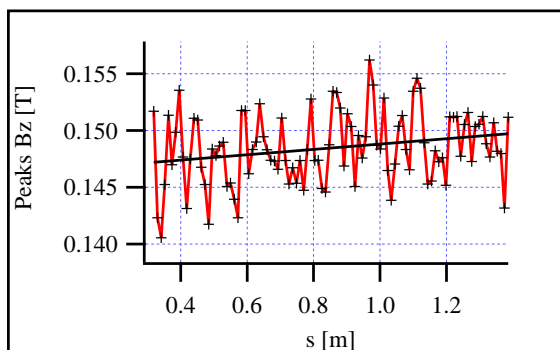
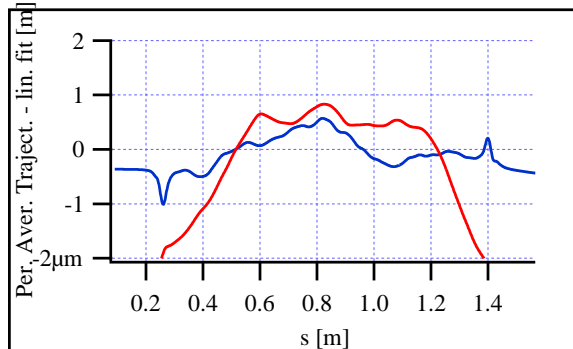
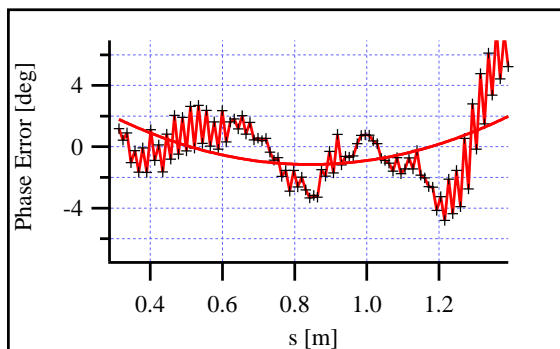
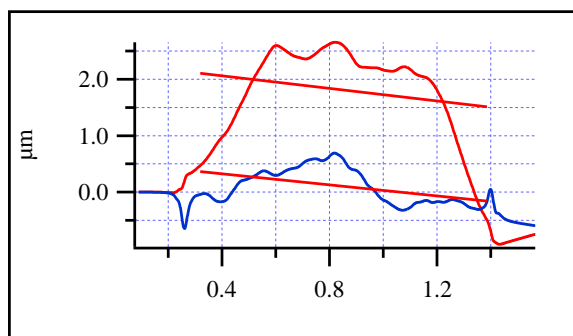
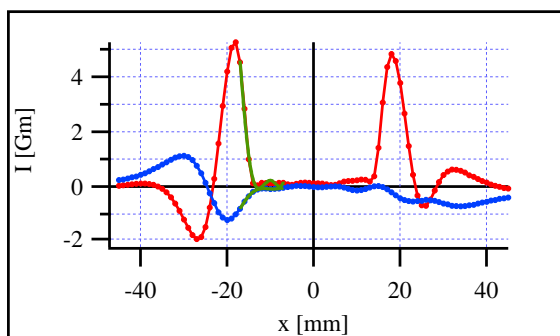
$$\Pi_z(sB_z): -0.0045 \text{ G m}^2$$

I4 : -1.1913 A

H Sextupole : 597.5 G/cm

BzTrj RMS dev. : 0.3 um

BxTrj RMS dev. : 0.8 um



Kyma Srl

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