Kyma Analysis Report

Date: 8. maj 2020 Name: 1991d Temperature: 23.0

Filename: 1991d-TPF-UFCM 20200508 Waves analysed : Bz79,Bx79,Izmes7,Ixmes7 Gap [mm] : 200

Phase [mm]: 3 Hall Z [mm]: -1 Peak Field Bx: 0.00627 T RMS Phase Error: 5.35 deg

Taper [mm]: 0 Hall X [mm]: -5 Delta Bx/Bx: 17.2 % Fund. En. (B2E) : 1776.4 eV = 0.7 nmPeak Field Bz: 0.75046 T Radiation wavelength (lin. fit): 0.7 nm

Peaks used: 102 Bz Taper: -5.514 G/m

Undulator Period: 22.00+-0.03 mm Delta Bz/Bz: 1.2 %

e-beam energy: 3 GeV Bx Taper : 0.807 G/m

Krms: 1.091

V Dipole: -11.4 G cm Iz(coil): -11.4 G cm Pred. C.C. currents Iz(BzC): -11.4 Gcm Iz(Bz): 62.9 G cm V Quadrupole: 15.5 G I1: 1.7733 A V Sextupole: -64.3 G/cm Ix(coil): -22.6 G cm I2:-0.0481 A

Ix(BxC): -22.6 Gcm Ix(Bx): 547.8 G cm

H Dipole: -17.1 G cm $IIx(sBx) : -0.0681 \text{ G m}^2$ I3: 0.4856 A IIz(sBz): -0.1126 G m^2 H Quadrupole: 42.4 G I4: 0.4533 A

H Sextupole: 267.0 G/cm BzTrj RMS dev.: 0.5 um BxTrj RMS dev.: 0.2 um

