Figure 1. Java frontend

CMWP fit control - All-users/Frontend/Zirc2_2-3dpa_250C/zirc2_2_3dpa_250C								
CUBIC:		HEXAGONAL:	V	ORTHOROMBIC:				
lat_a (CUB HEX ORT) [nm]:	.3232	lat_b (ORT) [nm]:		lat_c (HEX ORT) [nm]:	.515			
Burgers vector [nm]:	.3232	Wavelength [nm]:	.0825634	Ch00 or Chk0:	0.255			
Don't include size effect:		Use ellipsoidal size func.:		Use individual C factors:				
Include St. Faults effect:			stacking.dat file:		Browse			
Use weights:	v	Weighting algorithm (1-4):	1	Disable coinc. g^2 code:	V			
Use instrum. profiles:	v		Instrum. profiles dir.:	All-users/AAManchester-2016/Dia	Browse			
Fit peak int.:	v	Fit peak pos.:	V	Use 2 W.f. asymmetry:				
Fit in K instead of 2*theta:		Clone peak-index.dat file:		Clone bg-spline.dat file:				
FT limit (if no instr. eff.):		Use FFT:	V	FFT cutting parameter (0-1):	0.25			
Profile cutting parameter:	4	N1:	1024	N2:	1024			
Min. 2*theta/K:	15	Max. 2*theta/K:	43	Use Groma-Csikor strain f.:				
init_W:		init_X:		init_Y:				
init_a (q, CUB):		init_a1 (HEX ORT):	-0.563314	init_a2 (HEX ORT):	-0.32201			
a_fixed:		al_fixed:		a2_fixed:				
init_a3 (ORT):		init_a4 (ORT):		init_a5 (ORT):				
a3_fixed:		a4_fixed:		a5_fixed:				
init_epsilon:	1.0	epsilon_fixed:						
init_b (m):	1422.73	b_fixed:						
init_c (sigma):	0.173652	c_fixed:						
init_d (Rho14):	86.1294	d_fixed:						
init_e (M*):	0.0705582	e_fixed:		Rc:	1			
init_st_pr:		st_pr_fixed:		rholGS:				
Use Satellites:		Set Satellite parameters		Set fit parameters	Update peak-index.dat			
Number of phases:	3	Fit ONLY phase No:		Edit phase No:				
Call MKSpline	Call MKSpline2	Index peaks	Set individ. C values	Clone INI files	Save INI files			
(Re)Start FIT	Stop FIT	Update Params	View Solutions	View FIT	Exit			

Figure 2.
"Set fit parameters" pop-up window

CMWP fit fit_p	arams_control - All-users/Fro	ontend/Zirc2_2-3dpa_250C/zirc	c2_2_3dpa_250C 🛑 📵 🔞
min_a_cubic:	-10	max_a_cubic:	3
min_a_other:	-5	max_a_other:	5
min_b:	0.1	max_b:	2000
min_c:	0.05	max_c:	2
min_d:	0.01	max_d:	1000
min_e:	0.000001	max_e:	3
min_epsilon:	0.01	max_epsilon:	1
min_st_pr:	0.01	max_st_pr:	10
min_C_i:	0.01	max_C_i:	10
Use MC:	V	Use ML:	
		Use NR ML:	
ML fit limit:	1e-5	ML max. iter.:	25
MC min. steps:	3000	MC max. steps:	9000
MC max. Delta:	0.4	MC min. Delta:	0.02
MC max. Delta steps:	3000	MC min. Delta steps:	6000
MC value of p [%]:	3.5	MC min. pstat:	100
MC clear pstat over:	1e-4	MC extended minimum scan:	
MC cycle num.:			
Replot WSSR rel. change:		Replot interval:	
	Save	Exit	

Figure 3. "Set satellite parameters" pop-up-window

	CMWP fit con	trol - All-users/Frontend	/Zirc2_2-3dpa_250C/zirc	:2_2_3dpa_250C	₽ ® ⊗
S1_I:	.01	S1_wl:	.8		
S1_eta:	.8	S1_s0:	.02		
S1_fit:	2	S1_a1:	5	S1_a2:	2
S2_I:	.00000001	S2_wl:			
S2_eta:		S2_s0:			
S2_fit:	0	S2_a1:		S2_a2:	
S3_I:	.000000001	S3_wl:			
S3_eta:		S3_s0:			
S3_fit:	0	S3_a1:		S3_a2:	
S4_I:	.01	S4_wl:	.8		
S4_eta:	.8	S4_s0:	.02		
S4_fit:	2	S4_a1:	5	S4_a2:	2
		Save and Exit	Exit without saving		

Figure 4. "Call MKSpline" pop-up window

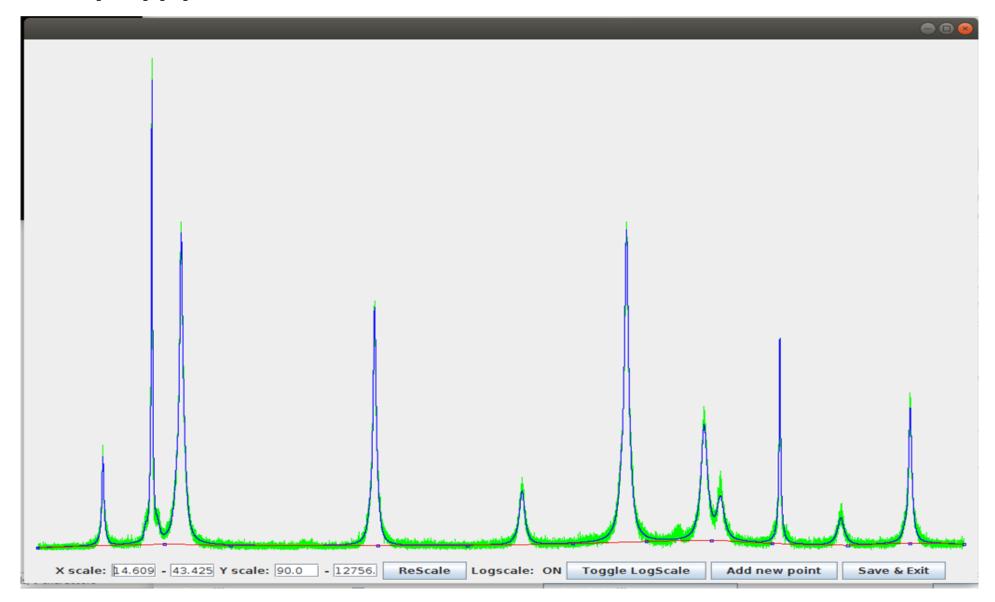


Figure 5.
Zoomed intensity scale of "Call MKSpline" pop-up window

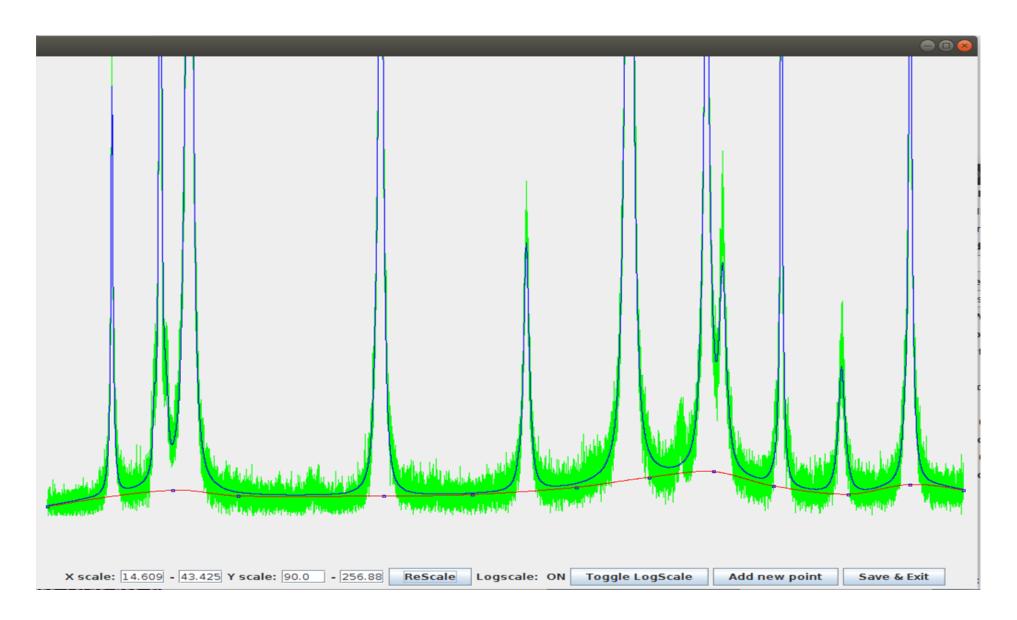


Figure 6.
Zoomed horizontal scale of "Call MKSpline" pop-up window

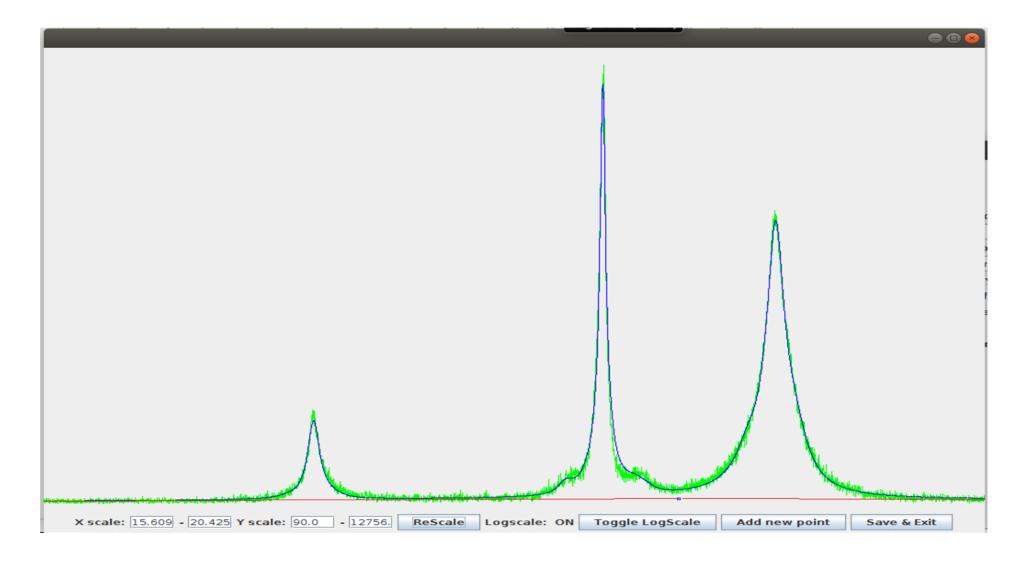


Figure 7.

Gnuplot image of fitting along with satellites (dash blue lines) available from the output files once the fitting procedure was done. (Note that the satellite peaks are added to the background spline.)

