



Swansea University
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MANCHESTER
1824

dMata.co.uk

DIPPA

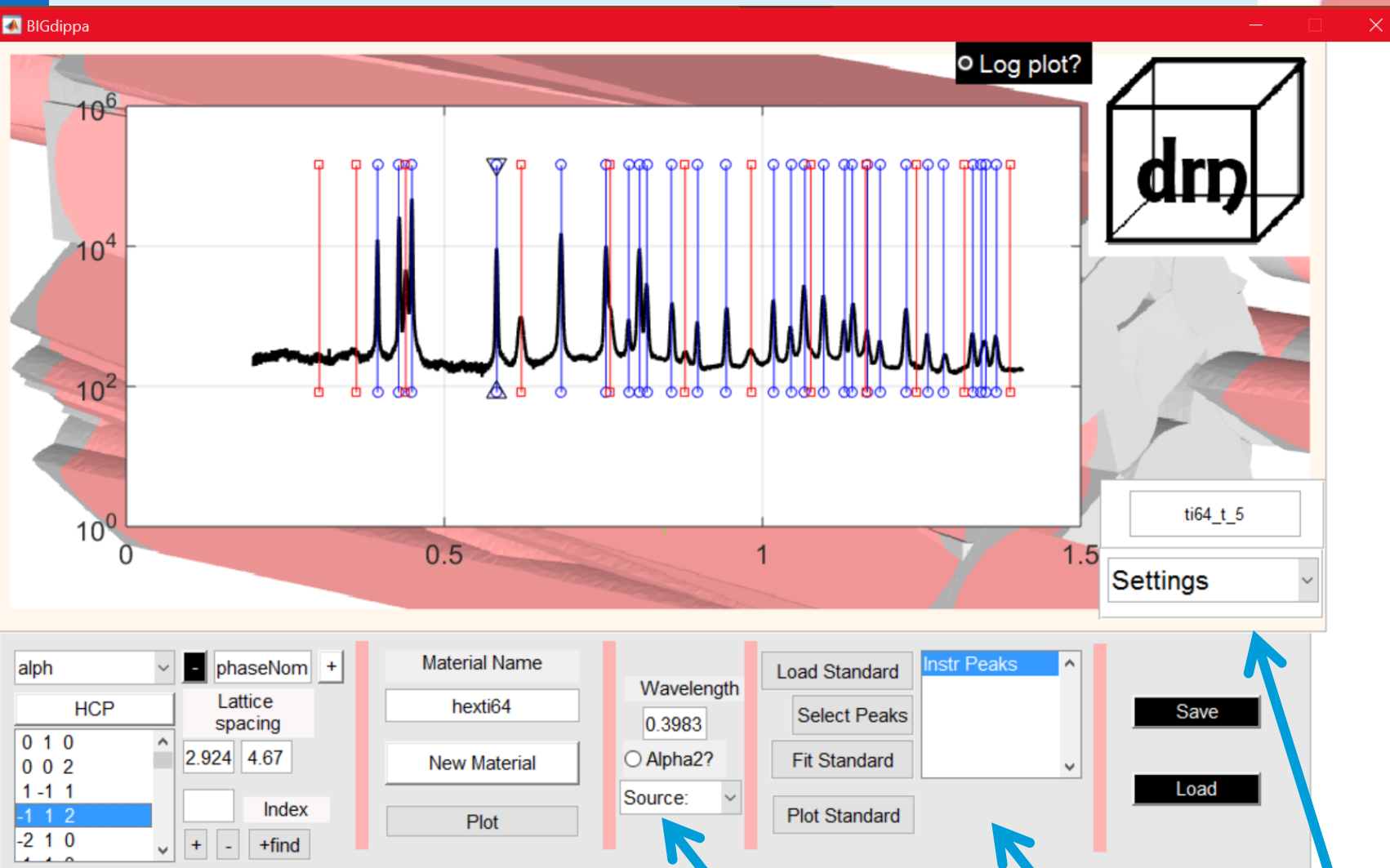
PEAK PROFILE ANALYSIS

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BIGDIPPA

Function to fit diffraction patterns and perform WH analysis

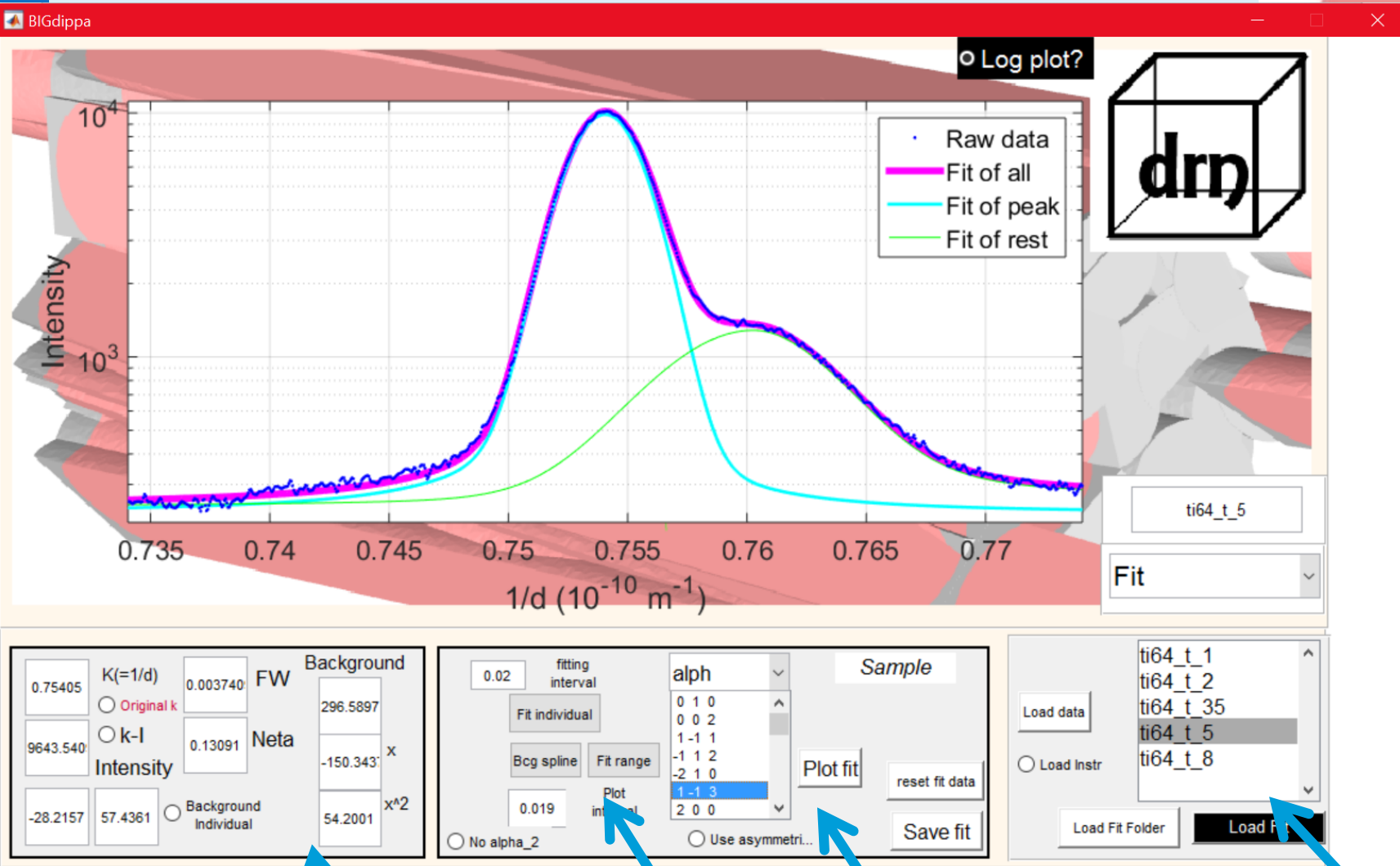


Define sample's phases

Define diffraction source

Define instrumental profile

Menu



BIGDIPPA

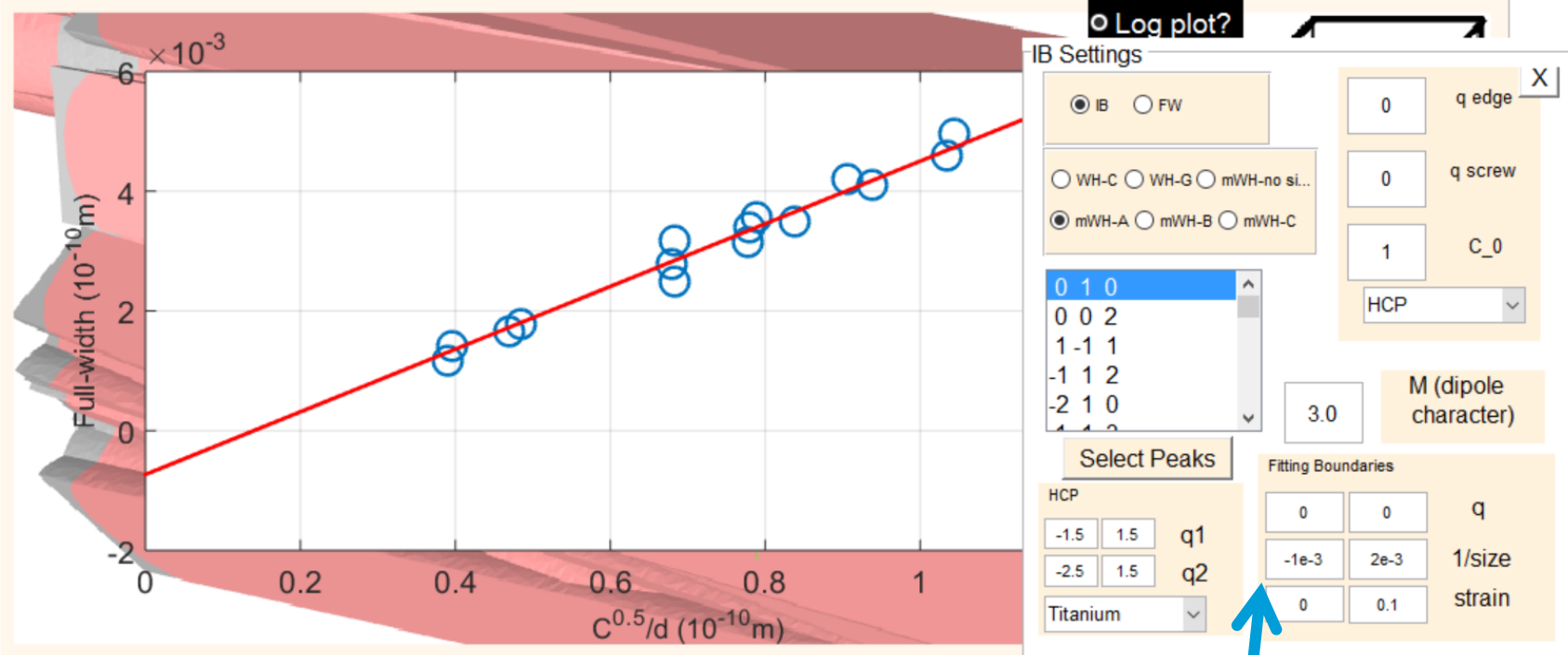
Function to fit diffraction patterns and perform WH analysis

Fit details

Fit options

List of peaks and phases

Save fits of same samples together



BIGDIPPA

Function to fit diffraction patterns and perform WH analysis

WH

-1366.04 Crystal size
5.23379 strain val (x1000)
2 q
0.00406685 disloc dens.

Plot WH
Plot mWH
Fit WH
Save WH
IB Settings

HCP

-0.87975 0.598039 q
100 a
0 c+a
0 c

Slip Systems*

Sample

0 1 0
0 0 2
1 -1 1
-1 1 2
-2 1 0

Load data
Load In tr
Load Fit Folder
Load Fit

ti64_t_1
ti64_t_2
ti64_t_35
ti64_t_5
ti64_t_8

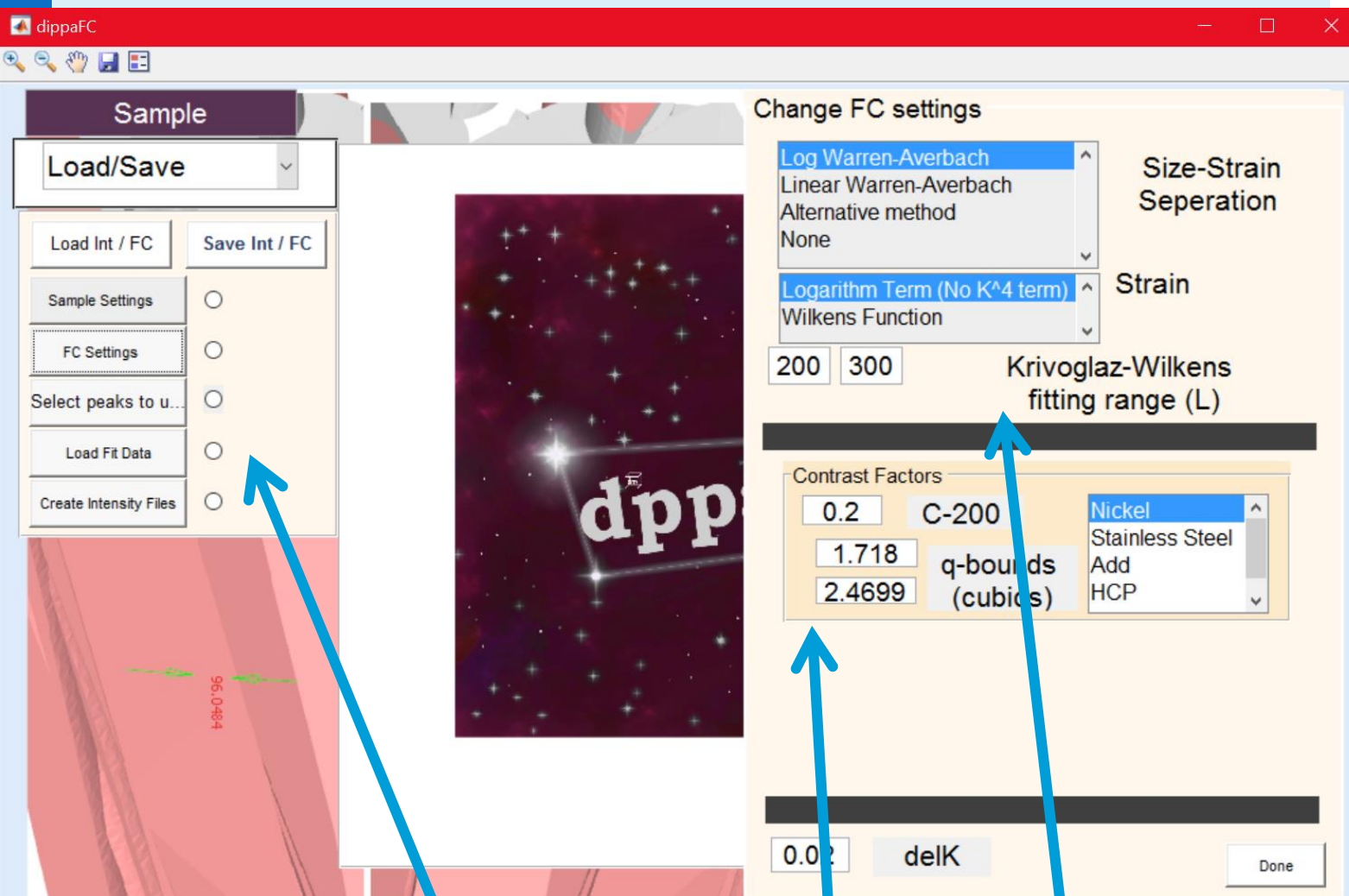
Fit / Plot

HCP slip systems

Results

WH settings





DIPPAFC

Function perform Fourier analysis

Load data / choose settings*

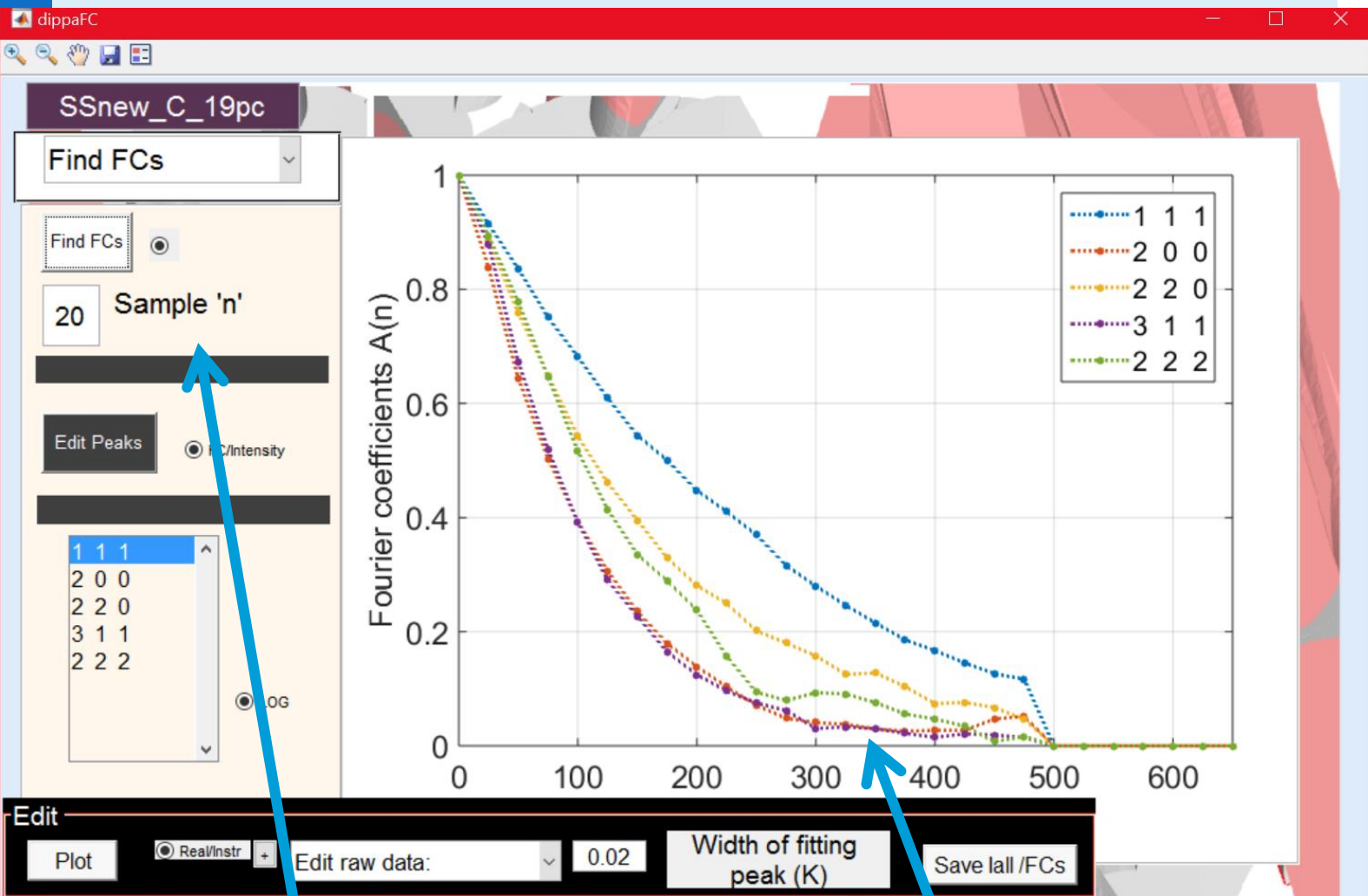
Contrast Factor

Strain and Size Types

* Remember to:

1. load sample settings (details of phases, determined in bigDIPPA)
2. Set FC settings
3. Load Fit data
4. & Finally get the intensity values





DIPPAFC

Function perform Fourier analysis

Get FCs

Edit Intensity Values

Plot





DIPPAFC

Function perform Fourier analysis

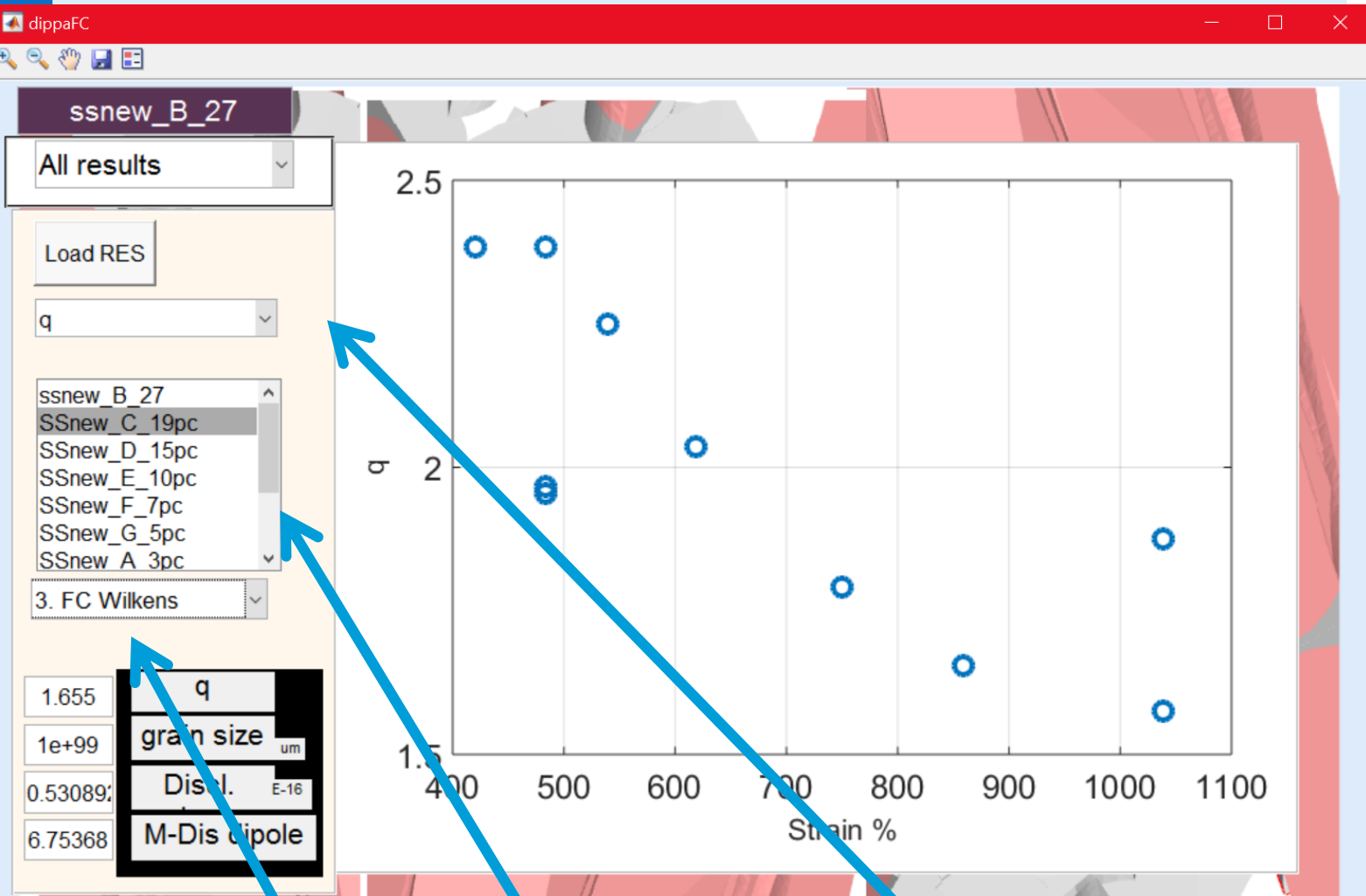
4840.00

Save

Results Plotting Options

Results





DIPPAFC

Function perform Fourier analysis

Plot details of results

Combined Results Plotting

List of Results

