

Contents

- Basic customisation of plots
- Make axes tight and set colour scale and other axes scales in script:
- Smoothing:
- Smoothing options:
- Cursor to find a particular data point value

Basic customisation of plots

%Includes ensuring axes are tight, smoothing images, setting axes and
%colour scales, using a data cursor.

Make axes tight and set colour scale and other axes scales in script:

```
plot(compact(my_slice));

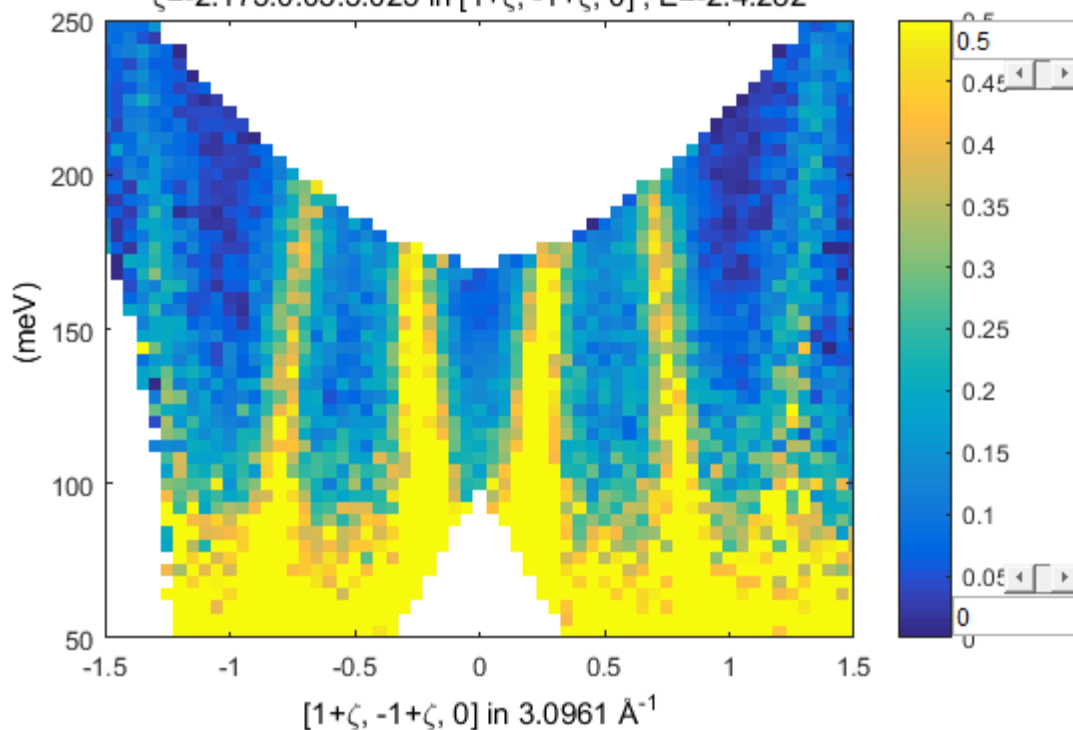
%
lz 0 0.5
ly 50 250
lx -1.5 1.5

%Reset a limit
%lx
```

C:\Russell\Horace_workshop\2017\Matlab\Fe_redux\my_real_file.sqw

$-1.1 \leq \xi \leq -0.9$ in $[-\xi, \xi, 0]$, $-0.1 \leq \eta \leq 0.1$ in $[0, 0, \eta]$

$\zeta = -2.175:0.05:3.025$ in $[1+\zeta, -1+\zeta, 0]$, $E = -2:4:282$



Smoothing:

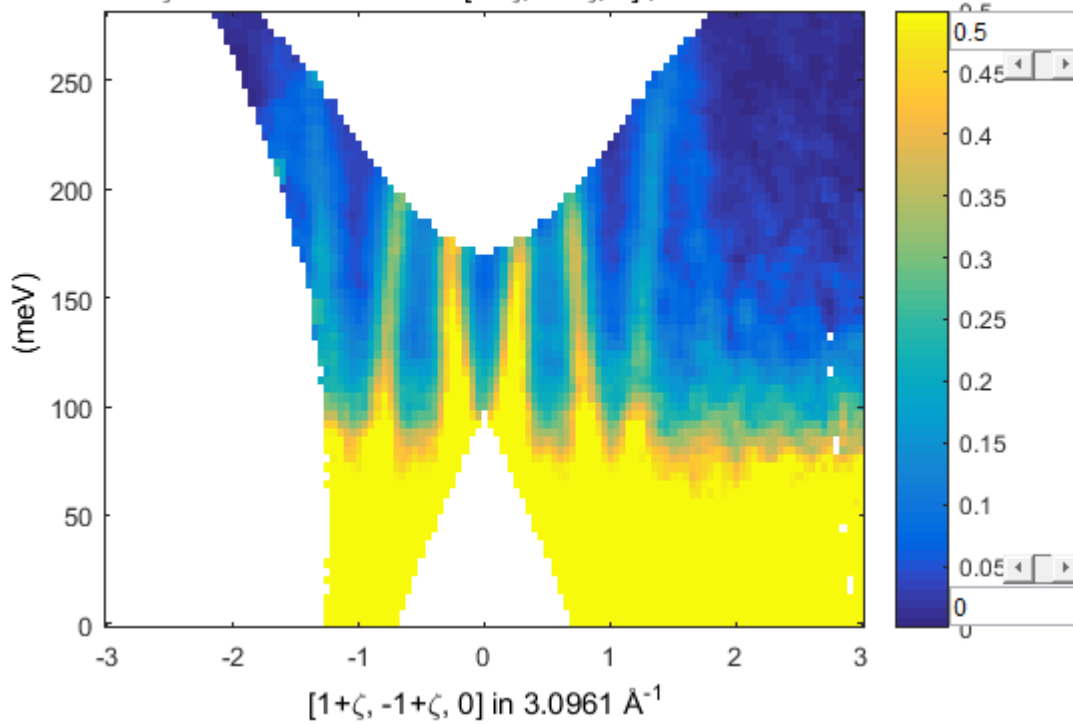
```
%plot(smooth(my_slice_nopix));%this gives an error - think about why!

my_slice_nopix=cut_sqw(sqw_file,proj,[-3,0.05,3],[-1.1,-0.9],[-0.1,0.1],[0,4,280],'-nopix');
plot(smooth(d2d(my_slice)));
lz 0 0.5
```

C:\Russell\Horace_workshop\2017\Matlab\Fe_redux\my_real_file.sqw

$-1.1 \leq \xi \leq -0.9$ in $[-\xi, \xi, 0]$, $-0.1 \leq \eta \leq 0.1$ in $[0, 0, \eta]$

$\zeta = -3.025:0.05:3.025$ in $[1+\zeta, -1+\zeta, 0]$, $E = -2:4:282$



Smoothing options:

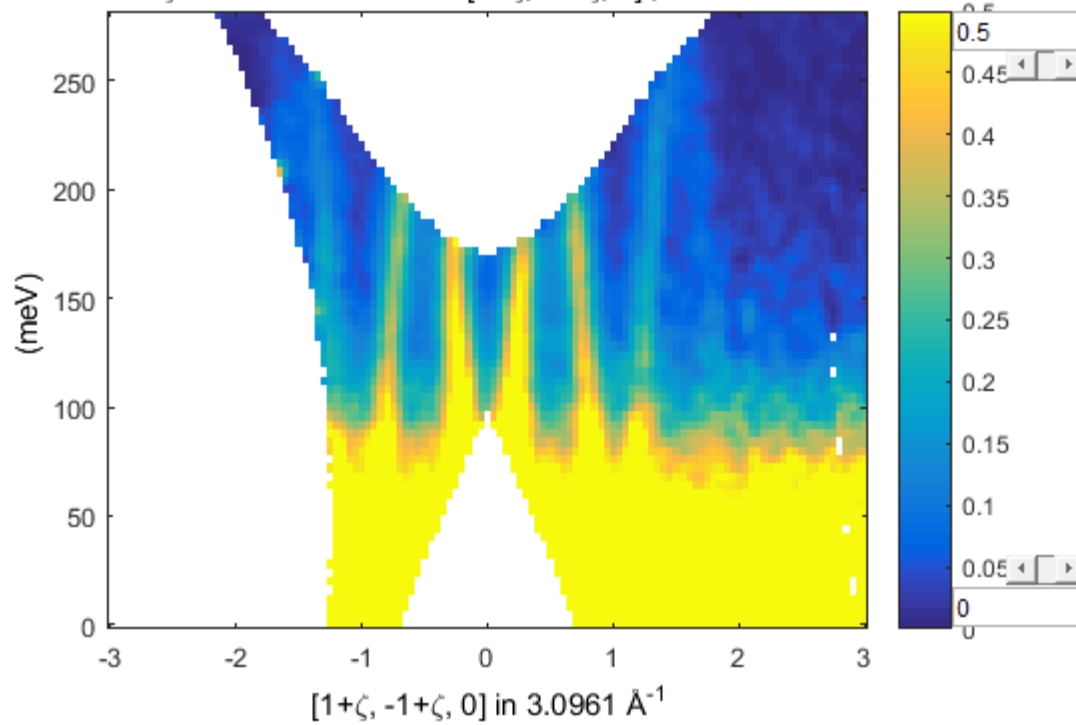
```
plot(smooth(d2d(my_slice),[2,2],'gaussian'));
lz 0 0.5

%Retain a figure, so it is not replaced next time you make a plot (of the
%same dimensionality)
keep_figure;
%plot(my_slice);
```

C:\Russell\Horace_workshop\2017\Matlab\Fe_redux\my_real_file.sqw

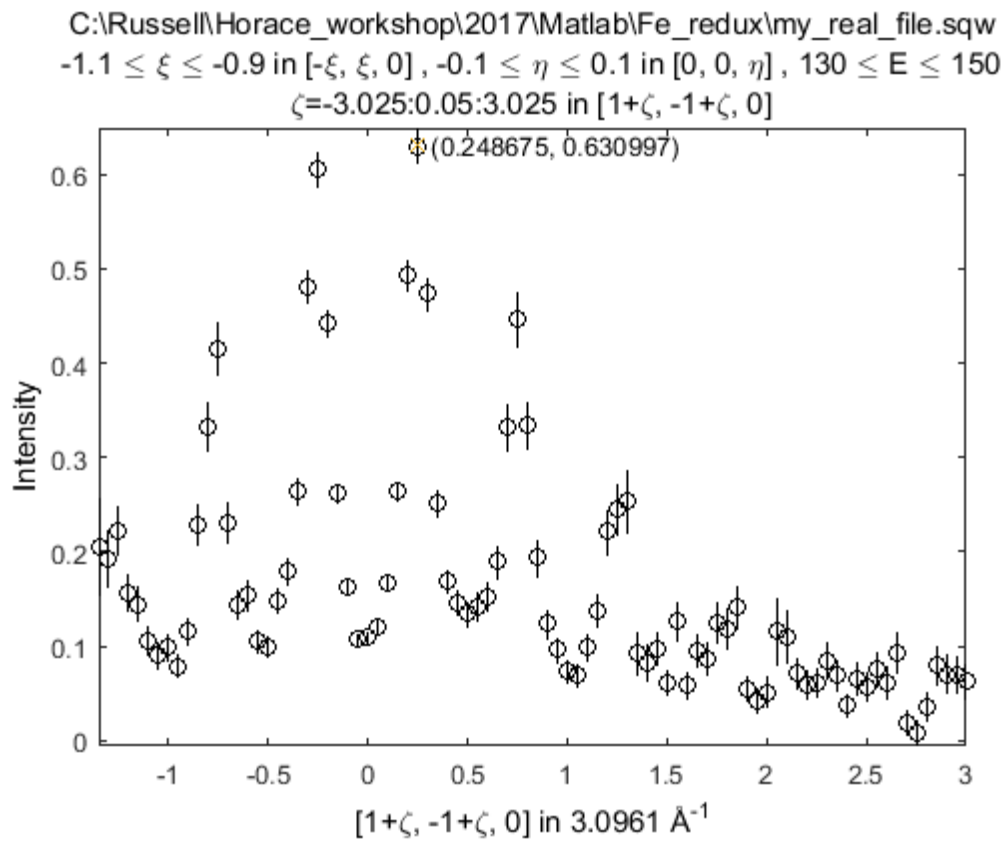
$-1.1 \leq \xi \leq -0.9$ in $[-\xi, \xi, 0]$, $-0.1 \leq \eta \leq 0.1$ in $[0, 0, \eta]$

$\zeta = -3.025:0.05:3.025$ in $[1+\zeta, -1+\zeta, 0]$, $E = -2:4:282$



Cursor to find a particular data point value

```
plot(my_cut2);
xycursor
```



Published with MATLAB® R2015b