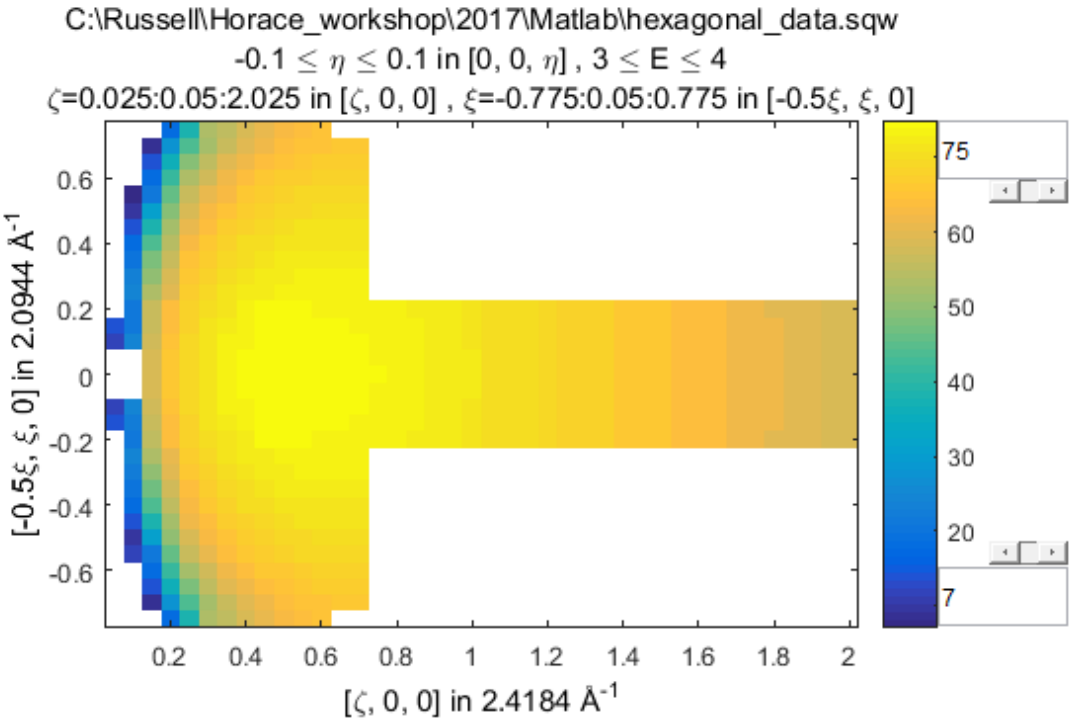
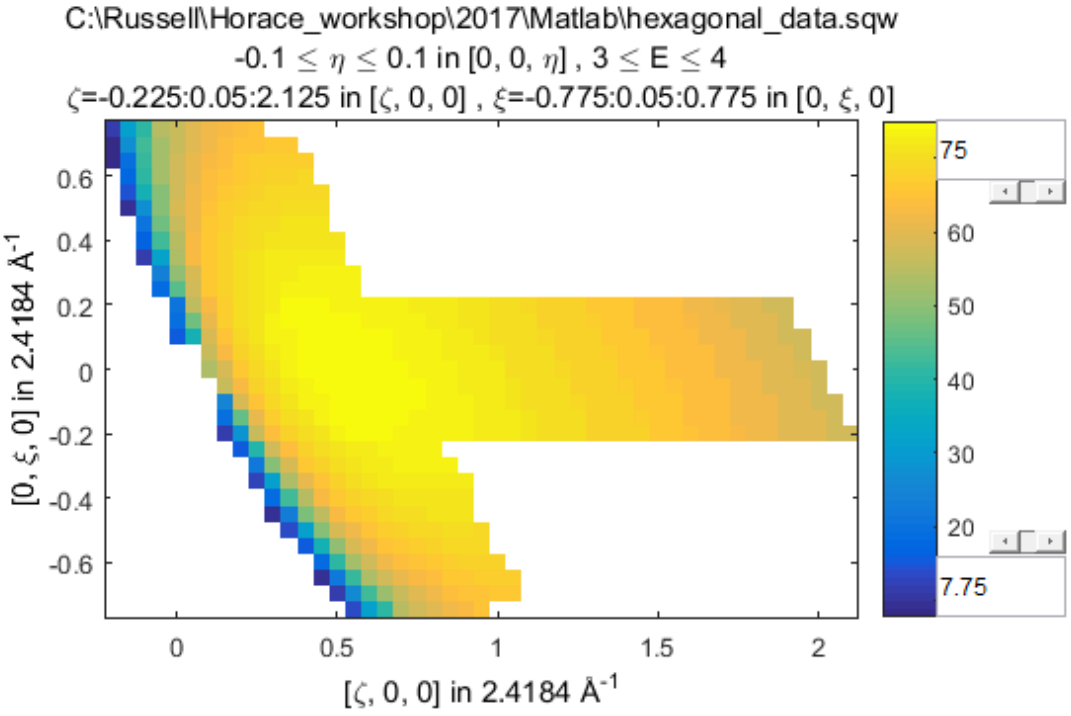
Making plots for systems with non-orthogonal axes

```
%There are two options - use a set of (correctly labelled, but perhaps
%confusing) orthogonal axes; or use the non-orthogonal axes but with an
%image whose axes are orthogonal (a Matlab plot constraint) in which the
%image is skewed

sqw_file_nonorth='C:\Russell\Horace_workshop\2017\Matlab\hexagonal_data.sqw';%sqw file for a hexagonal system

%orthogonal axes projections declaration:
proj_orth.u=[1,0,0]; proj_orth.v=[0,1,0]; proj_orth.type='rrr';

%non-orthogonal axes projections declaration:
proj_nonorth.u=[1,0,0]; proj_nonorth.v=[0,1,0]; proj_nonorth.type='rrr';
proj_nonorth.nonorthogonal=1;%default is 0 (false)

%Make a cut with orthogonal axes:
cut_orth=cut_sqw(sqw_file_nonorth,proj_orth,[-3,0.05,3],[-3,0.05,3],[-0.1,0.1],[3,4]);
plot(compact(cut_orth))
keep_figure
%notice the axes labels - the second axis is formally the axis that is
%perpendicular to the first one (not the (0,k,0) direction)

%Make a cut with non-orthogonal axes:
cut_nonorth=cut_sqw(sqw_file_nonorth,proj_nonorth,[-3,0.05,3],[-3,0.05,3],[-0.1,0.1],[3,4]);
plot(compact(cut_nonorth))
```





Published with MATLAB® R2015b