

## Planning an experiment

```
%=====Fake data=====

en=[0:10:500];
par_file='C:\Russell\Horace_workshop\Matlab\4to1_102.par';
sqw_file='C:\Russell\Horace_workshop\Matlab\my_fake_file.sqw';
efix=550;
psi=[-75:5:75];
emode=1;
alatt=[2.87,2.87,2.87];
angdeg=[90,90,90];
u=[1,0,0]; v=[0,1,0];
omega=0; dpsi=0; gl=0; gs=0;

fake_sqw(en, par_file, sqw_file, efix, emode, latt, angdeg,...
        u, v, psi, omega, dpsi, gl, gs);

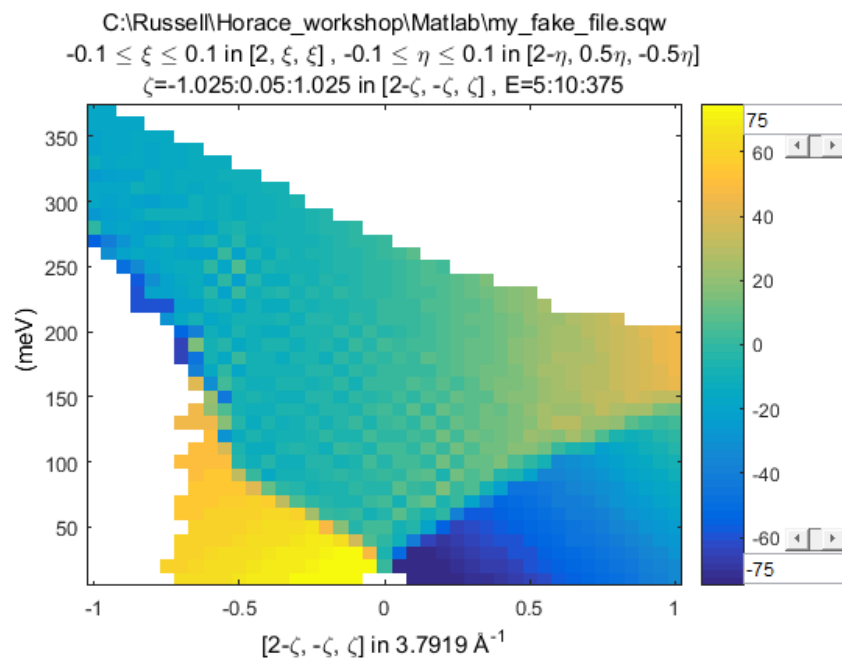
%Play around with different proj.u and proj.v, always remembering to ensure that
%the two are orthogonal to one another!
proj.u=[-1,-1,1]; proj.v=[0,1,1]; proj.uoffset=[2,0,0,0]; proj.type='rrr';

my_cut=cut_sqw(sqw_file,proj,[-1,0.05,1],[-0.1,0.1],[-0.1,0.1],[0,10,400],'-nopix');

plot(compact(my_cut));

%Notice that the image here is colour coded according to the value of psi
%for detectors from the run that contributed to these data.

%You can also fire up the horace planner interactive gui, for a quick and dirty way of
%planning your experiment
horace_planner
```



Horace Planner

Par file

Run parameters

u	<input type="text"/>	psi min	<input type="text"/>	lattice pars	<input type="text"/>	Ei	<input type="text"/>
v	<input type="text"/>	psi max	<input type="text"/>	lattice angles	<input type="text"/>	eps	<input type="text"/>

Message

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