

# LOGGING IN AND GETTING STARTED

## 1. BASICS

**lambda:** 2.21  
**data path:** \orion\home\data\yyyy\xxx  
**file names:** orion2012nxxxXXX.dat

## 2. GETTING STARTED

**Logging in:** In the window type:

Username: orion  
Password: ORIONLNS

**Starting six:** Click on the console icon and type six at the command prompt:

>> *six*

**Starting the plot window:** Click on the console icon and type 'topsisstatus' at the command prompt:

>> *topsisstatus*

Select Orion from the drop-down menu.

**Or plot the data in fit:** Click on the console icon and type 'fit' at the command prompt:

>> *fit*

- *dat* [run number] : opens data file
- *p* : plots the contents
- *q* : closes plot screen
- *fun 0* : generates single peak fit parameters
- *f* : fits the data

Type 'help' for basic guidance and for further help please give me a ring.

## 3. RUNNING A SAMPLE

**Tell us who you are:** Update the following information in six and the lab book:

*user* [your name (e.g. Amy Poole)]  
*sample* [your sample (MnWO<sub>4</sub>)]

**What you are doing:** You can update the title for the scan in six:

*title* [scan title (004 peak search)]

**Start measuring:** Update the cell parameters and generate an initial UB matrix:

*cell* [a b c  $\alpha$   $\beta$   $\gamma$ ]

*initaux* [h<sub>1</sub> k<sub>1</sub> l<sub>1</sub>] [h<sub>2</sub> k<sub>2</sub> l<sub>2</sub>]

- [h<sub>1</sub> k<sub>1</sub> l<sub>1</sub>] is parallel with the beam
- [h<sub>2</sub> k<sub>2</sub> l<sub>2</sub>] lies in the scattering plane

**Running a batch file:** If you don't know where your reflections are it is better to sweep out a large portion of reciprocal space with a batch file. There are examples of batch files in the folder \home\orion\batch. To use them:

- To find out the current path:  
*projectdir*
- To change the path:  
*projectdir* [pathName ( \home\orion\batch\amy)]
- To run a file:  
*batchrun* [file name]